## Curriculum Vitae: ILKWON OH (吳一權)

Director, National Creative Research Initiative for Functionally Antagonistic Nano-Engineering Director, Soft Robotics and Intelligent Materials Lab.

Full Professor, Ph.D.

Department of Mechanical Engineering
School of Mechanical and Aerospace Engineering
Korea Advanced Institute of Science and Technology (KAIST)
Daehak-ro 291, Yuseong-gu, Daejeon 305-701, Republic of Korea
Phone: +82-42-350-1520 | Fax: +82-42-350-1510 | Mobile: +82-10-8977-1520

Email: ikoh@kaist.ac.kr | Homepage: <a href="https://srim.kaist.ac.kr">https://srim.kaist.ac.kr</a> ResearcherID: http://www.researcherid.com/rid/B-7121-2011

Google Scholar: http://scholar.google.co.kr/citations?user=GJHV48MAAAAJ



## **RESEARCH AND TEACHING INTERESTS**

- Soft Robotics (Soft Actuators, Artificial Muscles & Electro-Active Polymers)
- Graphene and 2D Nanomaterials (Vibration Damper, Sound Absorber, Energy Storage)
- Structural Composite Battery and Supercapacitor (Robot Skin, Electric Vehicle, UAV)
- Energy Harvesting and Triboelectricity (Flutter-Induced EH, Ocean EH, Bio-Materials)
- Acoustic Metamaterials, Cellular Structures (Auxetics, TPMS, Topological Insulator)
- Smart Materials and Adaptive Structures (Piezoelectric Shape and Vibration Control)

### **EDUCATION**

Ph.D. KAIST, Mechanical Engineering, Aug. 2001

M.S. KAIST, Aerospace Engineering, Feb. 1997

B.S. Inha University, Aerospace Engineering, Feb. 1995

## **WORK EXPERIENCE**

- Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea -Full Professor (March 2015 Present),
  - -Department of Mechanical Engineering, School of Mechanical and Aerospace Engineering
- Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea
  - -Associate Professor (August 01, 2010 February 28, 2015),
  - -Graduate School of Ocean Systems Engineering, School of Mechanical, Aerospace and Systems Engineering
- Chonnam National University, Gwangju, Republic of Korea
  - -Associate Professor (Apr. 2008 Aug. 2010)
  - -Assistant Professor (Feb. 2004 Mar. 2008)
  - -School of Mechanical Systems Engineering
- LG Electronics Co., LTD., Seoul, Republic of Korea
  - -Senior Researcher (Aug. 2001 Feb. 2004),
  - -LG Digital Appliance Research Laboratory
- Stanford University, Stanford, California, USA
  - -Visiting Scholar (Dec. 2006 Dec. 2007), Department of Aerospace Engineering

## PROFESSIONAL MEMBERSHIP & DIRECTORSHIP

- Fellow Member of Korean Academy of Science and Technology (KAST)
- Member of American Society of Mechanical Engineers (ASME)
- Member of International Society for Optics and Photonics (SPIE)
- Member of Korean Society of Mechanical Engineers (KSME)
- Member of Korean Society for Noise and Vibration Engineering (KSNVE)
- Member of Korea Nano Technology Research Society (KoNTRS)
- Member of Korean Society for Composite Materials (KSCM)
- Member of The Polymer Society of Korea (PSK)
- President, Division of Dynamics, Control & Robotics, Korean Society of Mechanical Engineers (KSME), 2025.01.01 ~ Present
- Vice President, Korean Society for Composite Materials (KSCM), 2025.01.01 ~ Present
- Conference Chair, Soft Mechatronics and Wearable Systems in SPIE Smart Structures + Nondestructive Evaluation, 2024.01.01 ~ Present
- Senior Vice Chair, Division of Dynamics, Control & Robotics, Korean Society of Mechanical Engineers (KSME), 2024.01.01 ~ 2024.12.31
- Academic Director, Korean Society for Composite Materials (KSCM), 2024.01.01 ~ 2024.12.31
- Business Director, Korean Society for Noise and Vibration Engineering (KSNVE), 2024.01.01 ~ Present
- Vice Chair of Dynamics & Control Section in Korean Society of Mechanical Engineers (KSME), 2023.01.01 ~ 2023.12.31
- Finance Director of Dynamics & Control Section in Korean Society of Mechanical Engineers (KSME), 2018.01.01 ~ 2021.12.31
- Editorial Director, Dynamics & Control Section in Korean Society of Mechanical Engineers (KSME), 2015.01.01 ~ 2018.12.31.
- General Director, Korean Society for Composite Materials (KSCM), 2021.01.01 ~ 2023.12.31
- Finance Director, Korean Society for Composite Materials (KSCM), 2019.01.01 ~ 2019.12.31
- Planning Director, Korean Society for Noise and Vibration Engineering (KSNVE), 2023.01.01 ~ 2023.12.31
- International Cooperative Director, Korean Society for Noise and Vibration Engineering (KSNVE), 2022.01.01 ~ 2022.12.31
- General Director, Korean Society for Noise and Vibration Engineering (KSNVE), 2015.01.01 ~ 2016.12.31
- Editorial Director, Korean Society for Noise and Vibration Engineering (KSNVE), 2013.03.01 ~ 2015.12.31
- Editorial Director, Korean Society for Composite Materials, 2014.01.01 ~ 2018.12.31

#### JOURNAL EDITORIAL BOARD

- Associate Editor, Frontiers in Materials, Smart Materials Section, 2014 ~ Present
- Associate Editor, Frontiers in Bioengineering and Biotechnology, Biomimetics and Bionics Section, 2019 ~ Present
- Associate Editor, *International Journal of Smart and Nano Materials*, 2017 ~ Present
- Editor, Functional Composites and Structures (IOP), 2019 ~ Present
- Editorial Board, *Scientific Reports* (Nature), 2016.10.1 ~ Present
- Editorial Board, Composites Part B: Engineering, 2019 ~ Present
- Editorial Board, Actuators, 2012.01.01 ~ Present
- Editorial Board, Advances in Nano Research, 2013 ~ Present
- Editorial Board, GRAPHENE (ASP, ISSN: 2167-275X), 2013 ~ Present

- Editor-in-Chief, Advanced Composites Materials, 2022.01.01 ~ 2024.12.31
- Editorial Board, International Journal of Precision Engineering and Manufacturing-Green Technology (IJPEM-GT), 2017.1.1 ~ 2019.12.31
- Editorial Board, Korean Society for Composite Materials, 2010.03.01 ~ 2018.12.31.
- Editor, Korean Society for Noise and Vibration Engineering, 2015.01.01 ~ 2016.12.31.

## **AWARDS AND HONORS**

- **2024 Life Achievement Award,** the 7<sup>th</sup> International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Incheon, Korea, 2024.10.27-30.
- 2023 KAIST Globalization Excellence Lab, 2023,02,09.
- 2021 KAIST Impact Research Award (KAIST), 2021.02.15.
- 2020 Innovation Award for Basic Science, Minister Award of MSIT, 2020.12.31.
- 2020 KSCM Academic Award (Korean Society of Composite Materials), 2020.11.5.
- 2018 KAIST Academic Award (KAIST), 2018.02.12.
- 2018 Technology Innovation Award (KAIST Engineering), 2018.12.26.
- 2018 Academic Contribution Award (KSCM), 2018.11.22.
- 2018 Young Scientist Award (Inha University), 2018.12.20.
- 2014 TOP50 Outstanding Academic Achievement Award in Basic Research, Development
  of biomimetic 3D motion actuators based on multi-dimensional smart carbonnanostructures, Minister of Education, Science and Technology (MEST)-National Research
  Foundation of Korea
- 2014 Innovation Award in Energy Technology (에너지기술혁신대상, KETEP), 2014.08.28.
- Selected as 2014' TOP 15 Fusion Technology (KIST Convergence Research Policy Center)
- 2012 TOP50 Outstanding Academic Achievement Award in Basic Research, Development of Bio-mimetic Artificial muscle Actuators based on Smart Carbon Nano-Material, Minister of Education, Science and Technology (MEST), Republic of Korea, 2012.09.13.
- 2010 TOP100 Outstanding Academic Achievement Award in Basic Research, Development of Bio-mimetic and Bio-compatible Electro-Mechanical Polymer Actuators, Minister of Education, Science and Technology (MEST), Republic of Korea, 2010.10.26.
- 2010 TOP100 National Excellent Research & Development Achievement Award, Minister of Education, Science and Technology (MEST), Republic of Korea, 2010.12.06.
- Best Paper Award, Study on Water Floatable Artificial Muscles with Hydrophobic and Liquidimpermeable Graphene Paper Electrodes, The 7th World Congress on Biomimetics, Artificial Muscles and Nano-Bio (BAMN 2013), Jeju Island, Korea, 2013.08.26-30.
- **Best Paper Award**, Bio-inspired Three-Dimensional Carbon Nanostructures for High Performance Lithium Ion Battery, The 7th World Congress on Biomimetics, Artifical Muscles and Nano-Bio (BAMN 2013), Jeju Island, Korea, 2013.08.26-30.
- Best Paper Award (First Ranked), The Korean Society for Composite Materials (KSCM), (Helical stents based on shape memory polymer with ferromagnetic nanoparticle-decorated graphene flakes), Fall 2012
- Best Presentation Award, Korean Society for Noise and Vibration Engineering (KSNVE), (Characteristics of Wave Propagations through Phononic Structure Having Cloaking Zone), Fall 2012
- Best Presentation Award, Korean Society for Noise and Vibration Engineering (KSNVE), (Development of Bacterial Cellulose Actuators), Fall 2009
- Best Presentation Award, Korean Society for Noise and Vibration Engineering (KSNVE), (Fullerene-based Ionic Polymer Transducers), Spring 2009

- Marquis Who's Who in Science and Engineering, 2006
- Marquis Who's Who in the world, 2007
- Award of Excellence in Research, Chonnam National University, 2006
- TL2005 Gold Medal, LG Electronics Inc., 2002.03
- Scholarship Award of LG Electronics Company, 2000.05 ~ 2001.08
- Best Paper Award in M.S. thesis, Mechanical Engineering, KAIST, 1997.03

## **BOOK AND BOOK CHAPTERS**

- 1. II-Kwon Oh\* and Choonghee Jo, "Bioinspired Artificial Muscles and Robots (Chapter 18)," Handbook of Biomimetics and Bioinspiration, pp. 443-474, World Scientific Series in Nanoscience and Nanotechnology, (Esmaiel Jabbari, Deok-Ho Kim, Luke P Lee, Amir Ghaemmaghami, Ali Khademhosseini (Eds.), ISBN: 978-981-4354-92-9, May 2014. (Selected as Cover Image)
- <u>2.</u> <u>II-Kwon Oh\*</u>, Jin-Han Jeon, "Ionic Polymer-Metal Composite Actuators (Chapter 10)" Smart Materials Actuators: Recent Advances in Characterization and Applications, Seung-Bok Choi, Jaewhan Kim (Eds.), pp. 195-212, ISBN: 978-1-63482-574-0, Nova Science Publishers, Inc. (New York), 2015
- 3. Rajesh Kumar, Hyun-Jun Kim, and II-Kwon Oh\*, "Bio-inspired Engineering of 3D Carbon Nanostructures (Chapter 12)", Carbon Nanomaterials for Biomedical Applications, Zhang, Mei, Naik, Rajesh R., Dai, Liming (Eds.), pp.365-420, ISBN 978-3-319-22861-7, DOI 10.1007/978-3-319-22861-7, 2015, Springer.
- 4. <u>II-Kwon Oh\*</u>, Jin-Han Jeon, "Graphene-based Ionic Polymer Actuators (Chapter 3)", Ionic Polymer Metal Composites (IPMCs): Smart Multi-Functional Materials and Artificial Muscles, Mohsen Shahinpoor (Editor), pp. 148-168, ISBN: 978-1-78262-077-8, DOI:10.1039/9781782622581-00148, 19 Nov 2015, Royal Society Chemistry Smart Materials
- <u>5.</u> Kwang Kim\*, Viljar Palmre, Jin-Han Jeon, Kinji Asaka, and **Il-Kwon Oh**, "IPMCs as EAPs: Materials (Chapter 9)"



World Scientific Series in Nanoscience and Nanotechnology: Volumes 9 Handbook of Biomimetics and Bioinspiration Biologically-Driven Engineering of Materials, Processes, Devices, and Systems (In 3 Volumes) . Edited by: Esmaiel Jabbari (University of South Carolina, USA), Deok-Ho Kim (University of Washington, USA), Luke P Lee (University of California, Berkeley, USA), Amir Ghaemmaghami (University of Nottingham, UK), Ali Khademhosseini (Harvard University, USA & Massachusetts Institute of Technology, USA) About This Book About the Author(s) E-Book Reviews Global warming, pollution, food and water shortage, cyberspace insecurity, over-population, land erosion, and an overburdened health care system are major issues facing the human race and our planet. These challenges have presented a mandate to develop "natural" or "green" technologies using nature and the living system as a guide to rationally design processes, devices, and systems. This approach has given rise to a new paradigm, one in which innovation goes hand-in-hand with less waste, less pollution, and less invasiveness to life on earth. Bioinspiration has also led to the development of technologies that mimic the hierarchical complexity of biological systems, leading to novel highly efficient, more reliable multifunctional materials, devices, and systems that can perform multiple tasks at one time. This multi-volume handbook focuses on the application of biomimetics and bioinspiration in medicine and engineering to produce miniaturized multi-functional materials, devices, and systems to perform complex tasks. Our understanding of complex biological systems at different length scales has increased dramatically as our ability to observe nature has expanded from macro to molecular scale, leading to the rational biologically-driven design to find solution to technological problems in medicine and engineering. The following three-volume set covers the fields of bioinspired materials, electromechanical systems developed from concepts

## INVITED TALKS AT INTERNATIONAL CONFERENCES

- 1. [Invited Talk] I.K. Oh, "Electroactive Soft Actuators Based on MXene-MOF Nanoarchitectures", Materials Research Society 2023 Spring Meeting (MRS 2023 Fall), Boston, massachusetts, United States, November 26-December 1, 2023.
- 2. [Plenary Lecture] I.K. Oh, "Ionic Soft Actuators based on Functional Nanomaterials", AMSM2021(Online), Japan, November 11, 2021.
- 3. [Plenary Lecture] I.K.Oh, "Recent Progress on Ionic Soft Actuators based on Nanomaterials", EuroEAP2021(Online), Sweden, June 2, 2021.
- 4. [Plenary Lecture] I.K. Oh, "Recent Progress on Ionic Soft Actuators and Their Future Applications" BAMN2019, (Maine, USA), International Congress on Biomimetics, Artificial Muscles and Nano-Bio, September 8-11, 2019.
- 5. [Invited Talk], J. Oh, J.S. Kim, I.K.Oh, "Graphene Oxide-based Sound Absorber" 2019 SPIE Smart Structures/NDE, (Denver, USA), 2019, March 6.
- 6. [Keynote Lecture] I.K. Oh, "Ionic Soft Actuators Based on Nano-Carbons" ISFSE2018 (HUST, China), The 4<sup>th</sup> International Symposium of Flexible and Stretchable Electronics 2018, June 28.
- 7. [Invited Talk] I.K. Oh, "Morphological Control of Touch Surfaces Based on Soft Elastomer Actuators" IMID2018 (BEXCO, Korea), The 18<sup>th</sup> International Meeting on Information Display, 2018, August 29.
- 8. [Keynote Lecture] I.K. Oh, "Graphene-based Soft Actuators and Devices", International Seminar for Special Doctoral Program "Green Energy Conversion Science and Technology", August 31-September 2, 2016. Yatsugatake, Yamanashi, Japan.
- 9. [Invited Talk] I.K. Oh, "Growth of Graphene-based 3D Nanostructures for Energy Storage and Electro-Mechanical Actuator" ENGE2016, November 11, 2016, Jeju, Korea,
- 10. [Invited Talk] I.K. Oh, "Bio-Inspired Graphene Composites for Hydrophobic Surfaces, Energy Storage and Actuators" BAMN 2015, August 24-26, 2015. Canada
- 11. [Invited Talk] I.K. Oh, "Graphene-based 3D Carbon Nanostructures for Electro-Active Polymers" 2014 International Union of Materials Research Societies-The IUMRS International Conference in Asia (IUMRS-ICA 2014), August 24-30, 2014.
- 12. [Keynote Lecture] J.H. Jeon, R.K. Cheedarala, I.K. Oh, "All-organic Ntda-SPI-IL actuator based on  $\pi$ - $\pi$  stacked 3D ionic network polymer", 2014 International Conference on Computational & Experimental Engineering and Sciences (ICCES'14), 12-17 June, 2014, Changwon, Korea
- 13. [Invited Talk] I.K. Oh, "Highly Sustainable Electroactive Artificial Muscles with Graphene Paper Electrodes" 2014 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, July 8-11, 2014, Besançon, France
- 14. [Invited Talk] I.K. Oh, "2D Graphene and BN Quantum Dots" The 7<sup>th</sup> World Congress on Particle Technology (WCPT7 2014), May 19-22, 2014.
- 15. [Invited Talk] I.K. Oh, "Defect Engineering of Graphene-based Three Dimensional Carbon Nanostructures for Energy Storage Applications" Graphene 2014, May 6-9, 2014, Toulouse, France
- 16. [Invited Talk] I.K. Oh, "Recent Progress on Graphene-based Artificial Muscles", 2014 SPIE Smart Structures/NDE March 9-13, 2014, San Diego, USA
- 17. [Invited Talk] I.K. Oh, "Three-Dimensional Carbon Nanostructures for Energy Storage Systems" 2013 International Conference on Small Science, Dec. 15-18, 2013, Las Vegas, USA.
- 18. [Keynote Lecture] I.K. Oh, "Graphene-based Nano-materials and Their Applications to Artificial Muscles", APCOM&ISCM 2013, 5<sup>th</sup> Asia Pacific Congress on Computational

- Mechanics & 4<sup>th</sup> International Symposium on Computational Mechanics, 2013.12.11-14, Singapore.
- 19. [Invited Talk] I.K. Oh, D. Lee, B. J. Kwon, C. Jo and K.C. Park, "Tunable bandgap in active acoustic metamaterials controlled with electric shunt circuits", ASEM13, Jeju Island, 2013.09.08-11, Korea.
- 20. [Keynote Lecture] I.K. Oh, "Graphene-based Artificial Muscles", BAMN2013, The 7<sup>th</sup> World Congress on Biomimetics, Artificial Muscles and Nano-Bio, Jeju Island, 2013.08.26-30, Korea
- 21. [Invited Lecture] I.K. Oh, "Graphene-based Electromechanically Active Polymers", EuroEAP 2013, Third international conference on Electromechanically Active Polymer (EAP) transducers & artificial muscles, Dübendorf, Zürich, Switzerland, 2013.06.25-26 [So called EAPodium]
- 22. [Invited Talk] I.K. Oh, "Vibro-Acoustic Waveguide with Tunable Bandgap", Phononics 2013, Sharm El-Sheikh, Egypt, 1013.06.02-07
- 23. [Plenary Lecture] I.K. Oh, "Recent Progress on Graphene-based Artificial Muscles" ICEP2012, International Conference on Electroactive Polymers, Banaras Hindu University, India, 2012.11.6,
- 24. [Invited Talk] I.K. Oh, "Durable Ionic Polymer-Graphene Composite Actuator with Graphene Bucky Paper Electrodes" 2012 IUMRS-ICEM Conference, Yokohama, Japan, 2012.09.26
- 25. [Keynote Lecture] I.K. Oh, "Microwave graphene synthesis and graphene-based sensors/actuators", 2012 SPIE Smart Structures/NDE, Town & Country Resort and Convention Center, San Diego, California, USA, 2012.03.12
- 26. [Invited Talk] I.K. Oh, "Synchronized switched electromagnetic damper for vibration control of flexible beams" 3rd International Conference on Smart Materials and Nanotechnology in Engineering, Shangri-La Hotel, Shenzhen, China, 2011.12.06
- 27. [Invited Talk] I.K. Oh, "Microwave Graphene Synthesis and Graphene-based Artificial Muscles", The 6th World congress on Biomimetics, Artificial Muscles and Nano-Bio, Cergy-Pontoise, Paris, France, 2011.10.26
- 28. [Invited Talk] I.K. Oh, "Electroactive Novel IPMC Actuators and Their Applications", 4th International Conference on Artificial Muscles+The 5th World congress on Biomimetics, Artificial Muscles and Nano-Bio, Osaka, Japan, 2009.11.26

# Invited Talks at Universities, Research Institutes and Domestic Conferences

- 29. [Invited Talk] I.K. Oh, "나노복합재 소프트 액츄에이터 및 응용기술", 한국복합재료학회 추계학술대회, 거제, 2023.11.09.
- 30. [Invited Talk] I.K. Oh, "Graphene-based Bio-Electronic Soft Actuators" Soft Sensors and Actuators, 추계고분자학회(PSK), 대구, 2015.10.08.
- 31. [Invited Talk] I.K. Oh, "Fundamentals of Graphene Nanomaterials and Their Applications: Composite Structures, Energy Storage, Surfaces and Actuators" Agency for Defense Development(국방과학연구소), 대전, 2015.10.30.
- 32. [Invited Talk] I.K. Oh, "Graphene-based Programmable Materials and Actuators" 융합재료과학분과 연세대학교, 서울, 2015.11.19.

- 33. [Invited Talk] I.K. Oh, "그래핀 기반 나노구조체 합성 및 이의 공학적 응용" 인하대학교 기계공학과, 인천, 2015.11.23.
- 34. [Invited Talk] I.K. Oh, "Bio-Inspired Graphene Composites for Energy Storage, Surfaces and Actuators" 한국화학연구원, 대전, 2015.09.15.
- 35. [Invited Talk] I.K. Oh "Bio-Inspired Graphene Composites (Energy, Hydrophobicity, Actuator)" 창원대학교, 창원, 2015.04.10.
- 36. [Invited Talk] I.K. Oh, "Bio-Inspired Graphene Composites & Applications" 전북대학교, 전주, 2015.4.8.
- 37. [Invited Talk] I.K. Oh, "Bio-Inspired Graphene Composites" 대우조선해양, 서울, 2015.1.30.
- 38. [Invited Talk] I.K. Oh, "Graphene-Based Soft Actuators: Artificial Muscles" Ulsan National Institute of Science and Technology, Ulsan, 2014.09.23.
- 39. [Invited Talk] I.K. Oh, "Graphene Hybrid Materials for Energy Storage and Actuator Devices" 한국원자력연구원, 대전, 2014.08.14.
- 40. [Invited Talk] I.K. Oh, "3 차원 카본 나노 소재의 합성 및 응용" 서울대학교, 기계항공공학부, 2014.03.21.
- 41. [Invited Talk] I.K. Oh, "Graphene-based 3D Carbon Nanostructures and Introduction to Electro-Active Polymers" 2013.08.02, Ulsan National Institute of Science and Technology, Korea (Requested from Prof. SangYoung Lee)
- 42. [Invited Talk] I.K. Oh, "Microwave Synthesis of 3D Carbon Nanostructures and Their Applications to Electro-Active Polymers: Energy Harvesting" 2013.07.23, LG Electronics Research & Development Campus (LG 전자기술원), Korea (Invited Talk)
- 43. [Invited Talk] I.K. Oh, "Synthesis of Graphene-based 3D Nanostructures and Their Application to Electro-Active Polymers: Haptic Devices" 2013.07.16, SAMSUNG Advanced Institute of Technology (SAIT, 삼성종합기술원), Korea (Invited Talk)
- 44. [Invited Talk] I.K. Oh, "Application of Transfer Path Analysis for Source Identification and Vibration Estimation" LG Electronics, Changwon, Korea, 2013.05.03.
- 45. [Invited Talk] I.K. Oh, "Introduction to SDSS Laboratory and Recent Progress on Graphene and EAPs" HYUNDAI Heavy Industry Research Center (현대중공업 중앙연구소), 2013.04.18.
- 46. [Invited Talk] I.K. Oh "3D Carbon, Energy, Actuator, and Nano-Bio" iPEN Forum (organized by Chulwon Plasma Research Institute) 2013.07.18, Chulwon, Korea
- 47. [Invited Talk] I.K. Oh, "2D Acoustic Cloak and Active Wave Control Structure Based on Acoustic Metamaterials" Underwater Stealth Workshop, organized by Agency for Defense Development (ADD, 국방과학연구소), Jinhae, Korea, 2013.05.30.
- 48. [Invited Talk] I.K. Oh, "Graphene-Based 3D Carbon Nanostructures and Their Applications" 2013 Korean Society for Composite Materials (KSCM), Spring Meeting, Seoul National University, Korea, 2013.05.23.
- 49. [Keynote Lecture] I.K. Oh, "Graphene-Based Nano-Composite Actuators" 2013 The Polymer Society of Korea (PSK, KOREA 고분자학회), Annual Spring Conference, 2013.04.11~12.

- 50. [Invited Talk] I.K. Oh, "Recent Progress on Artificial Muscles and Biomimetic Robots" Korea Institute of Energy Research (KIER, KOREA 에너지기술원), Ulsan UNIST, 2013.01.30, (Requested from Dr Jung-Chul Lee)
- 51. [Invited Talk] I.K. Oh, "Graphene and Graphene Hybrids" SAMSUNG TECHWIN, 2012.11.22. (Requested from Dr Seungmin Cho)
- 52. [Invited Talk] I.K. Oh, "Graphene-Based Hybrid Nanostructures and Their Applications" Hanyang University Department of Mechanical Engineering, Seoul, Korea, 2012.10.10.
- 53. [Invited Talk] I.K. Oh, "Graphene-based Three-Dimensional Carbon Nano-structures" 2012.02.09-11. Nano Tech Institute, University of Texas at Dallas, USA (Prof. Ray H. Baughman Group)
- 54. [Invited Talk] I.K. Oh, "Microwave Graphene Syntheses and Graphene-based Actuators" 2010.12.16. Artificial Cell Research Group, National Institute of Advanced Industrial Science and Technology (AIST), Osaka, Japan (Kinji Asaka Group)
- 55. [Invited Talk] I.K. Oh, "Microwave-based Graphene Syntheses and Graphene-based Actuators" 2010.12.09, Sungkyunkwan University, Suwon, Korea (Requested from Prof. Jonghyun Ahn)
- 56. [Invited Talk] I.K. Oh, "Artificial Muscles and Biomimetic Robots" 2010.12.06, KAIST Department of Mechanical Engineering, Daejeon, Korea (Invited Talk)
- 57. [Invited Talk] I.K. Oh, "Electroactive Polymer Actuators and Graphene Synthesis" 2010.08.23 Korea Institute of Materials Science (KIMS, KOREA 재료연구소), Changwon (Invited talk)
- 58. [Invited Talk] I.K. Oh, "Biomimetic Polymer Actuators and their Applications" 2010.01.28 Department of Electrical Engineering, Chosun University (Requested from Prof. Joo-Hyung Kim)
- 59. [Invited Talk] I.K. Oh, "Electroactive Novel IPMC Actuators and Their Applications" 2009.12.11 KAIST NOVIC (Invited Seminar)
- 60. [Invited Talk] I.K. Oh, "Novel Electroactive Artificial Muscles" 2009.12.03 KyungSang National University Department of Mechanical and Aerospace Engineering (Invited Seminar)
- 61. [Invited Talk] I.K. Oh, "Biomimetic Polymer Actuators and their Applications " 2009.05.20 2009 Korean Society for Mechanical Engineers (KSME, 대한기계학회), Spring Meeting, Young Scientist Session
- 62. [Invited Talk] I.K. Oh, "Introduction to Electroactive Polymer Actuators" 2009.04.10 Korea Aviation University Department of Aerospace Engineering
- 63. [Invited Talk] I.K. Oh, "Artificial Muscle Type Actuators" 2008.11.06 Korea Research Institute of Chemical Technology (KRICT, KOREA 화학연구소)
- 64. [Invited Talk] I.K. Oh, "Introduction to Novel Electro-Active Polymer Actuators" 2008 The Polymer Society of Korea (PSK, KOREA 고분자학회), Annual Autumn Conference, 2008.10.09~10.

## ORGANIZING ACADEMIC COMMITTEE

- 1. Symposium Chair, SPIE 2024 Smart Structures/NDE, Soft Mechatronics and Wearable Systems, Long Beach, California, USA, 2024.
- 2. Symposium Co-Chair, SPIE 2023 Smart Structures/NDE, Nano-, Bio-, Info-Tech Sensors, and Wearable Systems, Long Beach, California, USA, March 12-16, 2023.
- 3. Symposium Chair, AMSM2022: The 6<sup>th</sup> International Workshop on Active materials and Soft Mechatronics, Georgia Tech, Atlanta, Georgia, USA, October 26-29, 2022.
- 4. Symposium Co-Chair, SPIE 2022 Smart Structures/NDE, Nano-, Bio-, Info-Tech Sensors and 3D Systems, Long Beach, California, USA, April 6-10, 2022.
- 5. Symposium Co-Chair, SPIE 2021 Smart Structures/NDE, Nano-, Bio-, Info-Tech Sensors and 3D Systems (Online), USA, April 26-30, 2021.
- 6. Symposium Co-Chair, SPIE 2020 Smart Structures/NDE, Nano-, Bio-, Info-Tech Sensors and 3D Systems, Anaheim, California, USA, April 26-30, 2020.
- 7. Congress Chair, AMSM2019: The 4<sup>th</sup> International Workshop on Active Materials and Soft Mechatronics, Incheon, South Korea, Oct. 16-19, 2019.
- 8. Symposium Co-Chair, SPIE 2019 Smart Structures/NDE, Nano-, Bio-, Info-Tech Sensors and 3D Systems, Denver, Colorado, USA, March 3-7, 2019.
- 9. Congress Co-Chair, The 10<sup>th</sup> World Congress on Biomimetics, Artificial Muscles and Nano-Bio, Maine, USA, Sept. 8-11, 2019.
- 10. Congress Chair, AMSM2018: The 3<sup>rd</sup> International Workshop on Active Materials and Soft Mechatronics, KAIST, South Korea, Oct. 23-26, 2018.
- 11. Congress Chair, BAMN2013: The 7th World Congress on Biomimetics, Artifical Muscles and Nano-Bio, Jeju Island, Korea, 08.26-30, 2013.
- **12.** Organizing Committee, 2014 International Conference on Computational & Experimental Engineering and Sciences (ICCES'14), Changwon, Korea, June 12-17, 2014.
- 13. Program Committee, SPIE 2017 Smart Structures/NDE, San Diego, USA, March 08-12, 2017
- 14. Program Committee, SPIE 2016 Smart Structures/NDE, San Diego, USA, March 08-12, 2016
- 15. Program Committee, SPIE 2015 Smart Structures/NDE, San Diego, USA, March 08-12, 2015
- 16. Program Committee, SPIE 2014 Smart Structures/NDE, San Diego, USA, March 09-13, 2014
- 17. Program Committee, SPIE 2013 Smart Structures/NDE, San Diego, USA, March 10-14, 2013
- 18, Program Committee, SPIE2012 Smart Structures/NDE, San Diego, USA, March 11-15, 2012
- **19.** Organizing Committee, ISNIT2014 The International Symposium on Nature Inspired Technology, Hokkaido University, Sapporo, Japan, Feb 12-15, 2014
- **20.** Program Committee, ISNIT2013 The International Symposium on Nature Inspired Technology, High1 Resort, Kwangwondo, Korea, Jan 06-09, 2013
- **21.** Organizing Committee, ISNIT2012 The International Symposium on Nature Inspired Technology, High1 Resort, Kwangwondo, Korea, Jan 09-11, 2012
- **22.** Program Committee, 2013 International Conference on Control, Automation and Information Science, Ho Chi Minh City, Vietnam, Nov. 25-28, 2013
- 23. Program Committee, 2012 International Conference on Control, Automation and Information Science, Ho Chi Minh City, Vietnam, Nov. 26-29, 2012
- **24.** Organizing Committee, The 3rd International Conference on Multi-Functional Materials and Structures, Jeonbuk Provincial Government, Jenju, Korea, Sep. 14-18, 2010
- 25. Organizing Committee, 2011 KSME Annual Fall Conference (Graphene Special Sessions)
- 26. General Director, 2012 KSME Annual Spring Conference
- 27. General Director, 2012 KSME Annual Fall Conference

† Equally Contributed Authors

\* Corresponding Authors

- Yeongju Jung†, Jiyong Ahn†, Ji-Seok Kim, Junhyuk Bang, Minwoo Kim, Seongmin Jeong, Jinwoo Lee, Seonggeun Han, <u>II-Kwon Oh</u>, Seung Hwan Ko\*, "All Weather-Usable Wearable Dual Energy Harvester for Outdoor Sustainable Operation", <u>SusMat (IF = 18.7)</u>, Early View, 23<sup>st</sup> December 2024
- Daniel Saatchi, Myung-Joon Lee, Tushar Prashant Pandit, Manmatha Mahato, and <u>II-Kwon Oh\*</u>, "Artificial Intelligence in Metamaterial Informatics for Sonic Frequency Mechanical Identification Tags", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 18.5), Early View, 4<sup>st</sup> December 2024
- Mannan Khan†, Saewoong Oh†, Tae-Eun Song, Wonhee Ji, Manmatha Mahato, Yang Yang, Daniel Saatchi, Syed Sheraz Ali, Jaewoo Roh, Donghyeok Yun, Jee-Hwan Ryu, and <u>II-Kwon Oh\*</u>, "Wearable Haptics for Orthotropic Actuation Based on Perpendicularly Nested Auxetic SMA Knotting", <u>ADVANCED MATERIALS</u> (IF = 27.4), Vol. 37, Issue 1, 29<sup>th</sup> October 2024
- 4. Apurva Anjan†, Manmatha Mahato†, Kevin Bhimani, Anoop K. Kushwaha, Varad Mahajani, Hyunjoon Yoo, Reena A. Panchal, Rohit M. Manoj, Jawon Ha, Saroj K. Nayak, Pawel Keblinkski, Nikhil Koratkar\*, and <u>II-Kwon Oh\*</u>, "Physicochemically Interlocked Selenium for High Performing Aqueous Zinc-Selenium Batteries", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 18.5), Vol. 34, Issue 51, 16<sup>th</sup> December 2024
- Araz Rajabi-Abhari, Hyunjoon Yoo, Ji-Seok Kim, Hong-Yeon Yoon, Jeong Young Park, Ning Yan, Rassoul Tabassian\* and <u>II-Kwon Oh\*</u>, "Reversibly Compressible Silanated Cellulose Nanofibril Aerogel for Triboelectric Taekwondo Scoring Sensors", <u>Small (IF = 13.0)</u>, Vol. 20, Issue 50, 12<sup>th</sup> December 2024
- Eunji Kim, Seongbeen Kim, Hyeong Min Jin, Gyungtae Kim, Hwi-Heon Ha, Yunhui Choi, Kyoungha Min, Su-Ho Cho, Hee Han, Chi Won Ahn, Jaewoo Roh, <u>II-Kwon Oh</u>, Jinwoo Lee\*, Yonghee Lee\*, "Unlocking Novel Functionality: Pseudocapacitive Sensing in MXene-Based Flexible Supercapacitors", Nano-Micro Letters (IF = 31.6), Vol. 17, Issue 1, 9<sup>th</sup> December 2024
- 7. Tae-Won Na, Nak-Hyun Kim, Chang-Gyu Park, Junehyung Kim, Jong-Bum Kim\*, <u>II-Kwon Oh\*</u>, "Applicability analysis of induction bending process to P91 piping of PGSFR by high-temperature fatigue test", <u>Nuclear Engineering and Technology</u> (IF = 2.6), Vol. 56, Issue 12, December 2024
- Geetha Valurouthu, Mikhail Shekhirev, Mark Anayee, Ruocun (John) Wang, Kyle Matthews, Tetiana Parker, Robert W. Lord, Danzhen Zhang, Alex Inman, Marley Downes, Chi Won Ahn, Vibha Kalra, <u>II-Kwon Oh\*</u>, Yury Gogotsi\*, "Screening Conductive MXenes for Lithium Polysulfide Adsorption", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 18.5), Vol. 34, Issue 45, 5<sup>th</sup> November 2024
- Mousumi Garai†, Van Hiep Nguyen†, Manmatha Mahato, Saewoong Oh, Daniel Saatchi, Hyunjoon Yoo, Syed Sheraz Ali, Do Van Lam, Ashhad Kamal Taseer, and <u>II-Kwon Oh\*</u>, "Multifunctional and Electronically Conjugated Triazine Framework for Superior Electro-Ionic Artificial Muscles", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 18.5), Vol. 34, Issue 45, 5<sup>th</sup> November 2024
- 10. Rassoul Tabassian†, Araz Rajabi-Abhari†, Manmatha Mahato, Hyunjoon Yoo, Hong Yeon Yoon, Jeong Young Park, and <u>II-Kwon Oh\*</u>, "Metal-organic framework-based nanofibrous film for two different modes of triboelectric nanogenerators", <u>SmartMat (IF = 15.3)</u>, Vol. 5, Issue 5, October 2024

- 11. Yeongju Jung, Ji-Seok Kim, Junhyuk Bang, Seok Hwan Choi, Kangkyu Kwon, Min Jae Lee, <u>Il-Kwon Oh</u>, Jaeman Song, Jinwoo Lee\*, Seung Hwan Ko\*, "Energy-saving window for versatile multimode of radiative cooling, energy harvesting, and defrosting functionalities", Nano Energy (IF = 19.069), Vol. 129, October 2024
- 12. Hyunjoon Yoo, Manmatha Mahato, Woong Oh, Jawon Ha, Hee Han, Chi Won Ahn\*, and <u>Il-Kwon Oh\*</u>, "Exploring role of microbatteries in enhancing sustainability and functionality of implantable biosensors and bioelectronics", <u>BIOSENSORS & BIOELECTRONICS</u> (IF = 12.545), Vol. 260, 15<sup>th</sup> September 2024
- 13. Mohamad A. Raja, Su Hyun Lim, Doyun Jeon, Sangyoon Bae, Woong Oh, Inyeong Yang, Dajeong Kang, Jawon Ha, Ha Eun Lee, <u>Il-Kwon Oh</u>, Sanha Kim, and Seong Su Kim\*, "Thin, Uniform, and Highly Packed Multifunctional Structural Carbon Fiber Composite Battery Lamina Informed by Solid Polymer Electrolyte Cure Kinetics", <u>ACS Applied Materials & Interfaces (IF = 8.5)</u>, Vol. 16, Issue 43, 10<sup>th</sup> September 2024
- 14. Daniel Saatchi, Saewoong Oh, Hyunjoon Yoo, Ji-Seok Kim, Myung-Joon Lee, Mannan Khan, Bernd Wicklein, Manmatha Mahato, and <u>II-Kwon Oh\*</u>, "Dynamic Schwarz Meta-Foams: Customizable Solutions for Environmental Noise Reduction", <u>Advanced Science</u> (IF = 14.3), Vol. 11, Issue 13, 4<sup>th</sup> September 2024
- 15. Kibae Lee†, Ji-Seok Kim†, Saewoong Oh, Hyunjoon Yoo, Jongkil Lee, Chong Hyun Lee\*, and II-Kwon Oh\*, "DC Power Boosting Circuit for Freestanding-Sliding Triboelectric Nanogenerators with High Intrinsic Impedance and Multi-Harmonic Output", ADVANCED MATERIALS TECHNOLOGIES (IF = 6.4), Vol. 9, Issue 17, 4<sup>th</sup> September 2024
- 16. Syed Sheraz Ali, Manmatha Mahato, Do Van Lam, Pradeep Sambyal, Geetha Valurouthu, Mousumi Garai, Anweshi Dewan, Van Hiep Nguyen, Mannan Khan, Ashhad Kamal Taseer, Chi Won Ahn, and <u>II-Kwon Oh\*</u>, "MXene-Cobalt Hybrid Electrodes for Electroactive Artificial Muscle", <u>Advanced Engineering Materials</u> (IF = 3.6), Vol. 26, Issue 13, July 2024
- 17. Xiangrong Zeng, Manmatha Mahato, Woong Oh, Hyunjoon Yoo, Van Hiep Nguyen, Saewoong Oh, Geetha Valurouthu, Soon-Ki Jeong, Chi Won Ahn, Yury Gogotsi\*, and <u>II-Kwon Oh\*</u>, "Stoichiometric Ti3C2Tx Coating for Inhibiting Dendrite Growth in Anode-Free Lithium Metal Batteries", Energy and Environmental Materials (IF = 16.58), Vol. 7, Issue 4, July 2024
- 18. Ashhad Kamal Taseer†, Saewoong Oh†, Ji-Seok Kim, Mousumi Garai, Hyunjoon Yoo, Van Hiep Nguyen, Yang Yang, Mannan Khan, Manmatha Mahato\*, and <u>II-Kwon Oh\*</u>, "Cobalt MOF-Based Porous Carbonaceous Spheres for Multimodal Soft Actuator Exhibiting Intricate Biomimetic Motions", <u>ADVANCED MATERIALS</u> (IF = 32.086), Vol. 36, Issue 26, 26<sup>th</sup> June 2024
- 19. Bernd Wicklein\*, Geetha Valurouthu, HongYeon Yoon, Hyunjoon Yoo, Sathiyanathan Ponnan, Manmatha Mahato, Jiseok Kim, Syed Sheraz Ali, Jeong Young Park, Yury Gogotsi, and <u>II-Kwon Oh\*</u>, "Influence of MXene Composition on Triboelectricity of MXene-Alginate Nanocomposites", ACS Applied Materials & Interfaces (IF = 10.383), Vol. 16, Issue 18, 29<sup>th</sup> April 2024
- 20. Hyunjoon Yoo†, Manmatha Mahato†, Ji-Seok Kim, Saewoong Oh, Mousumi Garai, Van Hiep Nguyen, Ashhad Kamal Taseer, Myung-Joon Lee, and <u>II-Kwon Oh\*</u>, "Janus CoMOF-SEBS Membrane for Bifunctional Dielectric Layer in Triboelectric Nanogenerators", <u>Advanced Science</u> (IF = 17.521), Vol. 11, Issue 14, 10<sup>th</sup> April 2024
- 21. Ponnan Sathiyanathan, Daniel Saatchi, Yeonju Boo, Manmatha Mahato, Bernd Wicklein, Ji-Seok Kim, Hyunjoon Yoo, Tae-Eun Song, Ashhad Kamal Taseer, Won Jong Kim, and <u>II-Kwon Oh\*</u>, "Nitrogen and Sulfur Rich Covalent Organic Framework-Chitosan Triboelectric Nanogenerator for Disposable Urination Evaluation Tool", <u>ADVANCED MATERIALS TECHNOLOGIES</u> (IF = 8.39), Vol. 9, Issue 4, 19<sup>th</sup> February 2024
- 22. Van Hiep Nguyen, Saewoong Oh, Manmatha Mahato, Rassoul Tabassian, Hyunjoon Yoo, Seong-Gyu Lee, Mousumi Garai, KwangJin Kim, and Il-Kwon Oh\*, "Functionally Antagonistic

Polyelectrolyte for Electro-Ionic Soft Actuator", Nature Communications (IF = 17.7), Vol. 15, Issue 1, 10<sup>th</sup> January 2024

- 23. Manmatha Mahato, Mousumi Garai, Van Hiep Nguyen, Saewoong Oh, Sanghee Nam, Xiangrong Zeng, Hyunjoon Yoo, Rassoul Tabassian\*, and <u>II-Kwon Oh\*</u>, "Polysulfonated Covalent Organic Framework as Active Electrode Host for Mobile Cation Guests in Electrochemical Soft Actuator", <u>Science Advances</u> (IF = 14.136), Vol. 9, Issue 50, 13<sup>th</sup> December 2023
- 24. Saewoong Oh, Tae-Eun Song, Manmatha Mahato, Ji-Seok Kim, Hyunjoon Yoo, Myung-Joon Lee, Mannan Khan, Woon-Hong Yeo, and <u>II-Kwon Oh\*</u>, "Easy-To-Wear Auxetic SMA Knot-Architecture for Spatiotemporal and Multimodal Haptic Feedbacks", <u>ADVANCED MATERIALS</u> (IF = 32.086), Vol. 35, Issue 47, 23<sup>th</sup> November 2023 (Selected as front cover image)
- 25. Tae-Eun Song, Sang-Ah Oh, Chi Won Ahn\*, Hwan-Jin Jeon\*, and <u>II-Kwon Oh\*</u>, "Effective Approach for Fabricating Highly Precise High-Curvature Structural Patterns via Air-Bubble Induction", LANGMUIR (IF = 4.331), Vol. 39, Issue 44, 25<sup>th</sup> October 2023
- 26. Tae-Won Na, Nak-Hyun Kim, Chang-Gyu Park, Jong-Bum Kim, and <u>II-Kwon Oh\*</u>, "Validation of applicability of induction bending process to P91 piping of prototype Gen-IV sodium-cooled fast reactor (PGSFR)", <u>Nuclear Engineering and Technology</u> (IF = 2.7), Vol. 55, Issue 10, 6<sup>th</sup> October 2023
- 27. Daniel Saatchi†, Saewoong Oh†, and <u>II-Kwon Oh\*</u>, "Biomimetic and Biophillic Design of Multifunctional Symbiotic Lichen-Schwarz Metamaterial", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 33, Issue 31, 1st August 2023 (Selected as front cover image)
- 28. Manmatha Mahato†, Sanghee Nam†, Myung-Joon Lee, Nikhil Koratkar\*, <u>II-Kwon Oh\*</u>, "Physicochemically Interlocked Sulfur Covalent Triazine Framework for Lithium-Sulfur Batteries with Exceptional Longevity", <u>Small (IF = 15.153)</u>, Vol. 19, Issue 30, 26<sup>th</sup> July 2023
- 29. Pradeep Sambyal†, Manmatha Mahato†, Ashhad Kamal Taseer, Hyunjoon Yoo, Mousumi Garai, Van Hiep Nguyen, Syed Sheraz Ali, and <u>II-Kwon Oh\*</u>, "Magnetically and Electrically Responsive Soft Actuator Derived from Ferromagnetic Bimetallic Organic Framework", Small (IF = 15.153), Vol. 19, Issue 23, 7<sup>th</sup> June 2023
- 30. Dongwhi Choi, Younghoon Lee, Zong-Hong Lin, Sumin Cho, Miso Kim, Chi Kit Ao, Siowling Soh, Changwan Sohn, Chang Kyu Jeong, Jeongwan Lee, Minbaek Lee, Seungah Lee, Jungho Ryu, Parag Parashar, Yujang Cho, Jaewan Ahn, Il-Doo Kim, Feng Jiang, Pooi See Lee, Gaurav Khandelwal, Sang-Jae Kim, Hyun Soo Kim, Hyun-Cheol Song, Minje Kim, Junghyo Nah, Wook Kim, Habtamu Gebeyehu Menge, Yong Tae Park, Wei Xu, Jianhua Hao, Hyosik Park, Ju-Hyuck Lee, Dong-Min Lee, Sang-Woo Kim, Ji Young Park, Haixia Zhang, Yunlong Zi, Ru Guo, Jia Cheng, Ze Yang, Yannan Xie, Sangmin Lee, Jihoon Chung, Il-Kwon Oh, Ji-Seok Kim, Tinghai Cheng, Qi Gao, Gang Cheng, Guangqin Gu, Minseob Shim, Jeehoon Jung, Changwoo Yun, Chi Zhang, Guoxu Liu, Yufeng Chen, Suhan Kim, Xiangyu Chen, Jun Hu, Xiong Pu, Zi Hao Guo, Xudong Wang, Jun Chen, Xiao Xiao, Xing Xie, Mourin Jarin, Hulin Zhang, Ying-Chih Lai, Tianyiyi He, Hakjeong Kim, Inkyu Park, Junseong Ahn, Nghia Dinh Huynh, Ya Yang, Zhong Lin Wang\*, Jeong Min Baik\*, Dukhyun Choi\*, "Recent Advances in Triboelectric Nanogenerators: From Technological Progress to Commercial Applications", ACS Nano (IF = 18.027), Vol. 17, Issue 12, 23<sup>rd</sup> May 2023
- 31. Mousumi Garai, Manmatha Mahato, Sanghee Nam, Eunji Kim, Darae Seo, Yonghee Lee, Van Hiep Nguyen, Saewoong Oh, Pradeep Sambyal, Hyunjoon Yoo, Ashhad Kamal Taseer, Sheraz Ali Syed, Hee Han, Chi Won Ahn\*, Jaehwan Kim\*, and <u>II-Kwon Oh\*</u>, "Metal Organic Framework-MXene Nanoarchitecture for Fast Responsive and Ultra-stable Electro-Ionic

- Artificial Muscles", ADVANCED FUNCTIONAL MATERIALS (IF = 19.924), Vol. 33, Issue 10, March 2, 2023 (Selected as inside back cover image)
- 32. Ji-Seok Kim, Manmatha Mahato, Jung-Hwan Oh\*, and <u>II-Kwon Oh\*</u>, "Multi-Purpose Auxetic Foam with Honeycomb Concave Micropattern for Sound and Shock Energy Absorbers", Advanced Materials Interfaces (IF = 6.389), Vol. 10, Issue 4, February 3, 2023
- 33. Sanghee Nam†, Manmatha Mahato†, Kyle Matthews, Robert W. Lord, Yonghee Lee, Pitchai Thangasamy, Chi Won Ahn, Yury Gogotsi\*, and <u>II-Kwon Oh\*</u>, "Bimetal Organic Framework-Ti3C2Tx MXene with Metalloporphyrin Electrocatalyst for Lithium-Oxygen Batteries", ADVANCED FUNCTIONAL MATERIALS (IF = 19.924), Vol. 33, Issue 1, January 3, 2023

- 34. Pitchai Thangasamy, Saewoong Oh, Hyacinthe Randriamahazaka, Sanghee Nam, and <u>II-Kwon Oh\*</u>, "Mechanistic insight into collectively exhaustive CoPi-NPC nanosheets for oxygen reduction reaction and Zn-air battery", <u>APPLIED CATALYSIS B-ENVIRONMENTAL (IF = 24.319)</u>, Vol. 316, November 5, 2022
- 35. Huapeng Zhang, Saewoong Oh, Manmatha Mahato, Hyunjoon Yoo, and <u>II-Kwon Oh\*</u>, "Knot-Architectured Fabric Actuators Based on Shape Memory Fibers", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 32, Issue 43, October 21, 2022
- 36. Van-Tien Bui†, Nghia Dinh Huynh†, Ngoc Mai Chau, Wook Kim, Hakjeong Kim, <u>II-Kwon Oh</u>, Dai Phu Huynh\*, and Dukhyun Choi\*, "High-temperature operatable triboelectric nanogenerator using microdome-patterned polyimide for self-powered sensors", <u>Nano Energy (IF = 19.069)</u>, Vol. 101, October 1, 2022
- 37. Manmatha Mahato†, Won-Jun Hwang†, Rassoul Tabassian†, Saewoong Oh, Van Hiep Nguyen, Sanghee Nam, Ji-Seok Kim, Hyunjoon Yoo, Ashhad Kamal Taseer, Myung-Joon Lee, Huapeng Zhang, Tae-Eun Song, and <u>II-Kwon Oh\*</u>, "A Dual-Responsive Magnetoactive and Electro-Ionic Soft Actuator Derived from a Nickel-Based Metal-Organic Framework", <u>ADVANCED MATERIALS</u> (IF = 32.086), Vol. 34, Issue 35, September 1, 2022 (Selected as inside front cover image)
- 38. Junseong Ahn†, Ji-Seok Kim†, Yoonsang Jeong, Soonhyoung Hwang, Hyunjoon Yoo, Yongrok Jeong, Jimin Gu, Manmatha Mahato, Jiwoo Ko, Sohee Jeon, Jihwan Ha, Hee-Seon Seo, Jungrak Choi, Mingu Kang, Chankyu Han, Yohan Cho, Chong Hyun Lee, Jun-Ho Jeong\*, II-Kwon Oh\*, and Inkyu Park\*, "All-Recyclable Triboelectric Nanogenerator for Sustainable Ocean Monitoring Systems", Advanced Energy Materials (IF = 29.698), Vol. 12, Issue 30, August 11, 2022 (Selected as back cover image)
- 39. Young Jung†, Junseong Ahn†, Jiseok Kim, Ji-Hwan Ha, Jaehwan Shim, Hanchul Cho, Yong Suk Oh, Yong-Jin Yoon, Youngsuk Nam, <u>II-Kwon Oh</u>, Jun-Ho Jeong\*, and Inkyu Park\*, "Spherical Micro Nano Hierarchical Structures for Energy and Water Harvesting Devices", <u>Small Methods</u> (IF = 15.367), Vol. 6, Issue 7, July 20, 2022
- 40. Mahendran Rajagopalan, <u>II-Kwon Oh</u>, Jagadeesan Palanivel, S. Sabarathinam, and Javier Cifuentes-Faurad\*, "Fabrication and characterizations of electro-mechanical actuators based on fullerene-reinforced biocompatible polymer", <u>SENSORS AND ACTUATORS A-PHYSICAL (IF = 4.291)</u>, Vol. 339, June 1, 2022
- 41. Seungjin Han, Myung-Joon Lee, and <u>II-Kwon Oh\*</u>, "Elastic valley Hall edge wave in a hierarchical hexagonal lattice", <u>JOURNAL OF SOUND AND VIBRATION</u> (IF = 4.761), Vol. 526, May 26, 2022
- 42. Araz Rajabi-Abhari†, Jeehee Lee†, Rassoul Tabassian, Jong-Nam Kim, Haeshin Lee\*, and <u>II-Kwon Oh\*</u>, "Antagonistically Functionalized Diatom Biosilica for Bio-Triboelectric Generators", Small (IF = 15.153), Vol. 18, Issue 20, May 19, 2022

- 43. Saewoong Oh, Rassoul Tabassian, Pitchai Thangasamy, Manmatha Mahato, Van Hiep Nguyen, Sanghee Nam, Zhang Huapeng, and <u>II-Kwon Oh\*</u>, "Cooling-Accelerated Nanowire-Nitinol Hybrid Muscle for Versatile Prosthetic Hand and Biomimetic Retractable Claw", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 32, Issue 18, May 2, 2022 (Selected as inside front cover image)
- 44. Sanghee Nam, Jaehwan Kim, Van Hiep Nguyen, Manmatha Mahato, Saewoong Oh, Pitchai Thangasamy, Chi Won Ahn, and <u>II-Kwon Oh\*</u>, "Collectively Exhaustive MXene and Graphene Oxide Multilayer for Suppressing Shuttling Effect in Flexible Lithium Sulfur Battery", <u>Advanced Materials Technologies</u> (IF = 8.856), Vol. 7, Issue 5, May 2022
- 45. Umar Raja, Saewoong Oh, Rassoul Tabassian, Manmatha Mahato, Van Hiep Nguyen, and <u>II-Kwon Oh\*</u>, "Micro-structured porous electrolytes for highly responsive ionic soft actuators", <u>SENSORS AND ACTUATORS B-CHEMICAL (IF = 9.221)</u>, Vol. 352, Issue 1, February 1, 2022
- 46. Manmatha Mahato†, Sanghee Nam†, Rassoul Tabassian, Saewoong Oh, Van Hiep Nguyen, and II-Kwon Oh\*, "Electronically Conjugated Multifunctional Covalent Triazine Framework for Unprecedented CO2 Selectivity and High-Power Flexible Supercapacitor", ADVANCED FUNCTIONAL MATERIALS (IF = 19.924), Vol. 32, Issue 5, January 26, 2022
- 47. Ji-Seok Kim†, Junyoung Kim†, Jong-Nam Kim, Junseong Ahn, Jun-Ho Jung, Inkyu Park, Daegyoum Kim\*, and <u>II-Kwon Oh\*</u>, "Collectively Exhaustive Hybrid Triboelectric Nanogenerator Based on Flow-Induced Impacting-Sliding Cylinder for Ocean Energy Harvesting", <u>Advanced Energy Materials</u> (IF = 29.698), Vol. 12, Issue 3, January 20, 2022 (Selected as inside front cover image)
- 48. Myung-Joon Lee, and <u>II-Kwon Oh\*</u>, "Robust separation of topological in-plane and out-of-plane waves in a phononic crystal", <u>Communications Physics</u> (IF = 6.497), Vol. 5, Issue 1, January 11, 2022

- 49. Rassoul Tabassian†, Manmatha Mahato†, Sanghee Nam, Van Hiep Nguyen, Araz Rajabi-Abhari, and <u>II-Kwon Oh\*</u>, "Electro-Active and Photo-Active Vanadium Oxide Nanowire Thermo-Hygroscopic Actuators for Kirigami Pop-up", <u>Advanced Science</u> (IF = 17.521), Vol. 8, Issue 23, December 2021
- 50. Manmatha Mahato†, Jong-Nam Kim†, Rassoul Tabassian, Araz Rajabi-Abhari, Ji-Seok Kim, Sanghee Nam, Hyunjoon Yoo, and <u>II-Kwon Oh\*</u>, "Mutually exclusive ytterbium and nitrogen co-doping of mesoporous titania-carbon for self-cleanable and sustainable triboelectric nanogenerators", Nano Energy (IF = 19.069), Vol. 90, Issue B, December 2021
- 51. Pitchai Thangasamy, Sanghee Nam, Saewoong Oh, Hyancinthe Randriamahazaka, and <u>II-Kwon Oh\*</u>, "Boosting Oxygen Evolution Reaction on Metallocene-based Transition Metal Sulfides Integrated with N-doped Carbon Nanostructures", <u>ChemSusChem (IF = 9.140)</u>, Vol. 14, Issue 22, Page 5004-5020, November 19, 2021
- 52. Myung Joon Lee, and <u>II-Kwon Oh\*</u>, "Elastic Topological Insulator via the Valley Hall Effect with Distorted Hexagonal Holes", <u>Transactions of the Korean Society of Mechanical Engineers A (IF = 0.07)</u>, Vol. 45, Issue 4, Page 311-318, April 2021
- 53. Jong-Nam Kim†, Jeehee Lee†, Haeshin Lee\*, and <u>II-Kwon Oh\*</u>, "Stretchable and self-healable catechol-chitosan-diatom hydrogel for triboelectric generator and self-powered tremor sensor targeting at Parkinson disease", <u>Nano Energy</u> (IF = 19.069), Vol. 82, April 2021
- 54. Araz Rajabi-Abhari, Jong-Nam Kim, Jeehee Lee, Rassoul Tabassian, Manmatha Mahato, Hye Jung Youn, Haeshin Lee, and <u>II-Kwon Oh\*</u>, "Diatom Bio-Silica and Cellulose Nanofibril for Bio-Triboelectric Nanogenerators and Self-Powered Breath Monitoring Masks", <u>ACS Applied Materials & Interfaces</u> (IF = 10.383), Vol. 13, Issue 1, Page 219-232, January 13, 2021

- 55. Zakai J Olsen, Kwang Jin Kim\*, and <u>II-Kwon Oh</u>, "Developing next generation ionic polymermetal composite materials: perspectives for enabling robotics and biomimetics", <u>POLYMER INTERNATIONAL (IF = 3.213)</u>, Vol. 70, Issue 1, Page 7-9, January 2021
- 56. Kwan-Woo Han†, Jong-Nam Kim†, Araz Rajabi-Abhari, Van-Tien Bui, Ji-Seok Kim, Dukhyun Choi\*, and <u>II-Kwon Oh\*</u>, "Long-Lasting and Steady Triboelectric Energy Harvesting from Low-Frequency Irregular Motions Using Escapement Mechanism", <u>Advanced Energy Materials</u> (IF = 29.698), Vol. 11, Issue 4, January 2021 (Selected as front cover image)

- 57. Manmatha Mahato†, Rassoul Tabassian†, Van Hiep Nguyen, Saewoong Oh, Sanghee Nam, Kwang Jin Kim, and <u>II-Kwon Oh\*</u>, "Sulfur- and Nitrogen-Rich Porous π-Conjugated COFs as Stable Electrode Materials for Electro-Ionic Soft Actuators", **ADVANCED FUNCTIONAL MATERIALS** (IF = 19.924), Vol. 30, Issue 46, November 11, 2020 (Selected as front cover image)
- 58. Sanghee Nam†, Jong-Nam Kim†, Saewoong Oh, Jaehwan Kim, Chi Won Ahn, and <u>II-Kwon Oh\*</u>, "Ti3C2Tx MXene for wearable energy devices: Supercapacitors and triboelectric nanogenerators", <u>APL Materials</u> (IF = 6.635), Vol. 8, Issue 11, November 1, 2020
- 59. Van Hiep Nguyen, Rassoul Tabassian, Saewoong Oh, Sanghee Nam, Manmatha Mahato, Pitchai Thangasamy, Araz Rajabi-Abhari, Won-Jun Hwang, Ashhad Kamal Taseer, and <u>II-Kwon Oh\*</u>, "Stimuli-Responsive MXene-Based Actuators", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 30, Issue 47, November 2020
- 60. Sanghee Nam, Pitchai Thangasamy, Saewoong Oh, Manmatha Mahato, Nikhil Koratkar, and II-Kwon Oh\*, "A dual-ion accepting vanadium carbide nanowire cathode integrated with carbon cloths for high cycling stability", Nanoscale (IF = 8.307), Vol. 12, Issue 40, Page 20868-20874, October 28, 2020
- 61. Manmatha Mahato†, Rassoul Tabassian†, Van Hiep Nguyen, Saewoong Oh, Sanghee Nam, Won-Jun Hwang, and <u>Il-Kwon Oh\*</u>, "CTF-based soft touch actuator for playing electronic piano", Nature Communications (IF = 17.694), Vol. 11, Issue 1, October 23, 2020
- 62. Jong-Nam Kim, Jeehee Lee, Tae Won Go, Araz Rajabi-Abhari, Manmatha Mahato, Jeong Young Park, Haeshin Lee, and <u>II-Kwon Oh\*</u>, "Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator", Nano Energy (IF = 19.069), Vol. 75, September 2020
- 63. Pitchai Thangasamy, Saewoong Oh, Sanghee Nam, Hyacinthe Randriamahazaka, and <u>II-Kwon Oh\*</u>, "Ferrocene-Incorporated Cobalt Sulfide Nanoarchitecture for Superior Oxygen Evolution Reaction", <u>Small (IF = 15.153)</u>, Vol. 16, Issue 31, August 2020
- 64. Moumita Kotal\*, Rassoul Tabassian, Sandipan Roy, Saewoong Oh, and <u>II-Kwon Oh\*</u>, "Metal-Organic Framework-Derived Graphitic Nanoribbons Anchored on Graphene for Electroionic Artificial Muscles", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 30, Issue 29, July 2020
- 65. Van-Tien Bui, Jung-Hwan Oh, Jong-Nam Kim, Qitao Zhou, Dai Phu Huynh, and <u>Il-Kwon Oh\*</u>, "Nest-inspired nanosponge-Cu woven mesh hybrid for ultrastable and high-power triboelectric nanogenerator", Nano Energy (IF = 19.069), Vol. 71, May 2020
- 66. Jung-Hwan Oh, Ji-Seok Kim, Van Hiep Nguyen, and <u>II-Kwon Oh\*</u>, "Auxetic graphene oxide-porous foam for acoustic wave and shock energy dissipation", <u>COMPOSITES PART B-ENGINEERING</u> (IF = 11.322), Vol. 186, April 1, 2020
- 67. Saewoong Oh, Van Hiep Nguyen, Van-Tien Bui, Sanghee Nam, Manmatha Mahato, and <u>Il-Kwon Oh\*</u>, "Intertwined Nanosponge Solid-State Polymer Electrolyte for Rollable and Foldable Lithium-Ion Batteries", ACS Applied Materials & Interfaces (IF = 10.383), Vol. 12, Issue 10, Page 11657-11668, March 11, 2020

- 68. Yunhan Lee†, Kiwoo Jun†, Kyueui Lee, Young Chang Seo, Changyoung Jeong, Munja Kim, <u>Il-Kwon Oh\*</u>, and Haeshin Lee\*, "Phenol-Derived Carbon Sealant Inspired by a Coalification Process", **ANGEWANDTE CHEMIE-INTERNATIONAL EDITION** (IF = 16.823), Vol. 59, Issue 10, Page 3864-3870, March 2, 2020
- 69. Pitchai Thangasamy, Saewoong Oh, Sanghee Nam, and <u>II-Kwon Oh\*</u>, "Rose-like MoS2 nanostructures with a large interlayer spacing of ~9.9 Å and exfoliated WS2 nanosheets supported on carbon nanotubes for hydrogen evolution reaction", <u>CARBON</u> (IF = 11.307), Vol. 158, Page 216-225, March 2020
- 70. Qi Shen, Zakai Olsen, Tyler Stalbaum, Sarah Trabia, Jameson Lee, Robert Hunt, Kwang Kim\*, Jaehwan Kim, and <u>II-Kwon Oh</u>, "Basic design of a biomimetic underwater soft robot with switchable swimming modes and programmable artificial muscles", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 29, Issue 3, March 2020
- 71. Hyeonseong Kim<sup>†</sup>, Qitao Zhou<sup>†</sup>, Daegyoum Kim<sup>\*</sup>, and <u>II-Kwon Oh<sup>\*</sup></u>, "Flow-induced snap-through triboelectric nanogenerator", Nano Energy (IF = 19.069), Vol. 68, February 2020
- 72. Sanghee Nam†, Sima Umrao†, Saewoong Oh, Kang Ho Shin, Ho Seok Park, and <u>II-Kwon Oh\*</u>, "Sonochemical self-growth of functionalized titanium carbide nanorods on Ti3C2 nanosheets for high capacity anode for lithium-ion batteries", <u>COMPOSITES PART B-ENGINEERING (IF = 11.322)</u>, Vol. 181, January 15, 2020

- 73. Rassoul Tabassian, Van Hiep Nguyen, Sima Umrao, Manmatha Mahato, Jaehwan Kim, Maurizio Porfiri, and <u>II-Kwon Oh\*</u>, "Graphene Mesh for Self-Sensing Ionic Soft Actuator Inspired from Mechanoreceptors in Human Body", <u>Advanced Science</u> (IF = 17.521), Vol. 6, Issue 23, December 4, 2019 (Selected as Front Cover image)
- 74. Muhammad Taha Manzoor†, Van Hiep Nguyen†, Sima Umrao, Jae-Hwan Kim, Rassoul Tabassian, Ji-Eun Kim, and <u>II-Kwon Oh\*</u>, "Mutually Exclusive p-Type and n-Type Hybrid Electrode of MoS2 and Graphene for Artificial Soft Touch Fingers", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 29, Issue 48, November 2019
- 75. Jaehwan Kim, Rassoul Tabassian, Van Hiep Nguyen, Sima Umrao, and <u>II-Kwon Oh\*</u>, "Crumpled Quaternary Nanoarchitecture of Sulfur-Doped Nickel Cobalt Selenide Directly Grown on Carbon Cloth for Making Stronger Ionic Soft Actuators", <u>ACS Applied Materials & Interfaces (IF = 10.383)</u>, Vol. 11, Issue 43, Page 40451-40460, October 30, 2019
- 76. Sanghee Nam, Sima Umrao, Saewoong Oh, and <u>II-Kwon Oh\*</u>, "2D Layered Ti3C2Tx Negative Electrode based Activated Carbon Woven Fabric for Structural Lithium Ion Battery", Composites Research (IF = 0.06), Vol. 32, Issue 5, Page 296-300, October 2019
- 77. Sima Umrao, Rassoul Tabassian, Jaehwan Kim, Van Hiep Nguyen, Qitao Zhou, Sanghee Nam, and <u>II-Kwon Oh\*</u>, "MXene artificial muscles based on ionically cross-linked Ti3C2Tx electrode for kinetic soft robotics", <u>Science Robotics</u> (IF = 27.541), Vol. 4, Issue 33, August 21, 2019 (Selected as front cover image)
- 78. Van-Tien Bui, Qitao Zhou, Jong-Nam Kim, Jung-Hwan Oh, Kwan-Woo Han, Ho-Suk Choi, Sang-Woo Kim, and <u>II-Kwon Oh\*</u>, "Treefrog Toe Pad-Inspired Micropatterning for High-Power Triboelectric Nanogenerator", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 29, Issue 18, July 2019
- 79. Jung-Hwan Oh, Hyeong Rae Lee, Sima Umrao, Yeon June Kang, and <u>II-Kwon Oh\*</u>, "Selfaligned and hierarchically porous graphene-polyurethane foams for acoustic wave absorption", CARBON (IF = 11.307), Vol. 147, Page 510-518, June 2019

- 80. Ji-Myeong Son†, Saewoong Oh†, Seok-Hu Bae, Sanghee Nam, and <u>II-Kwon Oh\*</u>, "A Pair of NiCo2O4 and V2O5 Nanowires Directly Grown on Carbon Fabric for Highly Bendable Lithium-Ion Batteries", <u>Advanced Energy Materials</u> (IF = 29.698), Vol. 9, Issue 18, May 9, 2019
- 81. Qitao Zhou, Jong-Nam Kim, Kwan-Woo Han, Se-Woong Oh, Sima Umrao, Eun Jung Chae, and II-Kwon Oh\*, "Integrated dielectric-electrode layer for triboelectric nanogenerator based on Cu nanowire-Mesh hybrid electrode", Nano Energy (IF = 19.069), Vol. 59, Page 120-128, May 2019
- 82. Sandipan Roy, Jaehwan Kim, Moumita Kotal, Rassoul Tabassian, Kwang Jin Kim, and <u>II-Kwon Oh\*</u>, "Collectively Exhaustive Electrodes Based on Covalent Organic Framework and Antagonistic Co-Doping for Electroactive Ionic Artificial Muscles", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 29, Issue 17, April 25, 2019
- 83. Van Hiep Nguyen, Jaehwan Kim, Rassoul Tabassian, Moumita Kotal, Kiwoo Jun, Jung-Hwan Oh, Ji-Myeong Son, Muhammad Taha Manzoor, Kwang Jin Kim, and <u>II-Kwon Oh\*</u>, "Electroactive Artificial Muscles Based on Functionally Antagonistic Core-Shell Polymer Electrolyte Derived from PS-b-PSS Block Copolymer", <u>Advanced Science</u> (IF = 17.521), Vol. 6, Issue 5, March 6, 2019
- 84. Sima Umrao, A. K. Maurya, V. Shukla, A. Grigoriev, R. Ahuja, M. Vinayak, R. R. Srivastava, P. S. Saxena, <u>II-Kwon Oh\*</u>, and A. Srivastava\*, "Anticarcinogenic activity of blue fluorescent hexagonal boron nitride quantum dots: as an effective enhancer for DNA cleavage activity of anticancer drug doxorubicin", <u>Materials Today Bio</u> (IF = 10.761), Vol. 1, January 2019
- 85. Qi Shen, Tyler Stalbaum, Nazanin Minaian, <u>II-Kwon Oh</u>, and Kwang Jin Kim\*, "A robotic multiple-shape-memory ionic polymer-metal composite (IPMC) actuator: modeling approach", <u>Smart Materials and Structures (IF = 4.131)</u>, Vol. 28, Issue 1, January 2019

- 86. Hyeong-Geon Kim†, Jong-Nam Kim†, Tae-Won Na, Kwang-Chun Park, and <u>II-Kwon Oh\*</u>, "Motion Control of Piezoelectric Tripod Platform via Feedforward Hysteresis Compensation", <u>Advanced Materials Technologies</u> (IF = 8.856), Vol. 3, Issue 12, December 2018 (Selected as frontispice Cover Image)
- 87. Ji Myeong Son, and <u>II-Kwon Oh\*</u>, "Flexible Energy-storage Devices: Maneuvers and Intermediate Towards Multi-functional Composites", <u>Composites Research</u> (IF = 0.06), Vol. 31, Issue 6, Page 355-364, December 2018
- 88. Seok-Hu Bae†, Choongseop Jeon†, Saewoong Oh, Chun-Gon Kim, Myungeun Seo\*, and <u>Il-Kwon Oh\*</u>, "Load-bearing supercapacitor based on bicontinuous PEO-b-P(S-co-DVB) structural electrolyte integrated with conductive nanowire-carbon fiber electrodes", CARBON (IF = 11.307), Vol. 139, Page 10-20, November 2018
- 89. Kiwoo Jun, Jongnam Kim, and <u>II-Kwon Oh\*</u>, "An Electroactive and Transparent Haptic Interface Utilizing Soft Elastomer Actuators with Silver Nanowire Electrodes", <u>Small (IF = 15.153)</u>, Vol. 14, Issue 35, August 29, 2018
- 90. Muhammad Taha Manzoor, Ji Eun Kim, Jung Hwan Jung, Chulhee Han, Seung-Bok Choi\*, and II-Kwon Oh\*, "Two-Dimensional rGO-MoS2 Hybrid Additives for High-Performance Magnetorheological Fluid", Scientific Reports (IF = 4.996), Vol. 8, August 23, 2018
- 91. Moumita Kotal, Jaehwan Kim, Rassoul Tabassian, Sandipan Roy, Van Hiep Nguyen, Nikhil Koratkar, and <u>II-Kwon Oh\*</u>, "Highly Bendable Ionic Soft Actuator Based on Nitrogen-Enriched 3D Hetero-Nanostructure Electrode", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 28, Issue 34, August 22, 2018
- 92. Jung Hwan Oh, Jieun Kim, Hyeongrae Lee, Yeonjune Kang\*, and <u>II-Kwon Oh\*</u>, "Directionally Antagonistic Graphene Oxide-Polyurethane Hybrid Aerogel as a Sound Absorber", <u>ACS</u>

- **Applied Materials & Interfaces (IF = 10.383)**, Vol. 10, Issue 26, Page 22650-22660, July 4, 2018
- 93. Rassoul Tabassian, Jaehwan Kim, Van Hiep Nguyen, Moumita Kotal, and <u>II-Kwon Oh\*</u>, "Functionally Antagonistic Hybrid Electrode with Hollow Tubular Graphene Mesh and Nitrogen-Doped Crumpled Graphene for High-Performance Ionic Soft Actuators", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 28, Issue 5, January 31, 2018 (Selected as Inside Back Cover Image)

- 94. Sandipan Roy†, Jaehwan Kim†, Moumita Kotal, Kwang Jin Kim, and <u>II-Kwon Oh\*</u>, "Electroionic Antagonistic Muscles Based on Nitrogen-Doped Carbons Derived from Poly(Triazine-Triptycene)", Advanced Science (IF = 17.521), Vol. 4, Issue 12, December 2017 (Selected as Back Cover Image)
- 95. Moumita Kotal, Hyunjun Kim, Sandipan Roy, and <u>II-Kwon Oh\*</u>, "Sulfur and nitrogen co-doped holey graphene aerogel for structurally resilient solid-state supercapacitors under high compressions", <u>Journal of Materials Chemistry A</u> (IF = 14.511), Vol. 5, Issue 33, Page 17253-17266, September 7, 2017
- 96. Jaehwan Kim, Seok-Hu Bae, Moumita Kotal, Tyler Stalbaum, Kwang Jin Kim, and <u>II-Kwon Oh\*</u>, "Soft but Powerful Artificial Muscles Based on 3D Graphene-CNT-Ni Heteronanostructures", <u>Small (IF = 15.153)</u>, Vol. 13, Issue 31, August 18, 2017 (Selected as Front Cover Image)
- 97. Si-Hwa Lee, Moumita Kotal, Jung-Hwan Oh, Palanichamy Sennu, Sung-Ho Park, Yun-Sung Lee, and <u>II-Kwon Oh\*</u>, "Nanohole-structured, iron oxide-decorated and gelatin-functionalized graphene for high rate and high capacity Li-Ion anode", <u>CARBON</u> (IF = 11.307), Vol. 119, Page 355-364, August 2017
- 98. Kiwoo Jun, Donggyu Kim, Seunghwa Ryu, and <u>II-Kwon Oh\*</u>, "Surface Modification of Anisotropic Dielectric Elastomer Actuators with Uni- and Bi-axially Wrinkled Carbon Electrodes for Wettability Control", <u>Scientific Reports</u> (IF = 4.996), Vol. 7, July 20, 2017
- 99. Ba-Leum Kim†, Jin-Young Jung†, and <u>II-Kwon Oh\*</u>, "Modified transfer path analysis considering transmissibility functions for accurate estimation of vibration source", <u>JOURNAL OF SOUND AND VIBRATION</u> (IF = 4.761), Vol. 398, Page 70-83, June 23, 2017
- 100. Ji-Eun Kim, Jung-Hwan Oh, Moumita Kotal, Nikhil Koratkar, and <u>II-Kwon Oh\*</u>, "Self-assembly and morphological control of three-dimensional macroporous architectures built of two-dimensional materials", Nano Today (IF = 18.962), Vol. 14, Page 100-123, June 2017
- 101. Sul Ki Park†, Kwangrok Choi†, Si-Hwa Lee†, <u>II-Kwon Oh\*</u>, Sungjin Park\*, and Ho Seok Park\*, "CNT branching of three-dimensional steam-activated graphene hybrid frameworks for excellent rate and cyclic capabilities to store lithium ions", <u>CARBON</u> (IF = 11.307), Vol. 116, Page 500-509, May 2017
- 102. Qi Shen, Viljar Palmre, Kwang Jin Kim\*, and <u>II-Kwon Oh</u>, "Theoretical and experimental investigation of the shape memory properties of an ionic polymer-metal composite", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 26, Issue 4, April 2017
- 103. Hyun-Jun Kim, Eun-Chae Yim, Jong-Hun Kim, Seong-Jun Kim, Jeong-Young Park, and <u>II-Kwon Oh\*</u>, "Bacterial Nano-Cellulose Triboelectric Nanogenerator", Nano Energy (IF = 19.069), Vol. 33, Page 130-137, March 2017
- 104. Ki-Woo Jun, Jong-Nam Kim, Jin-Young Jung, and <u>II-Kwon Oh\*</u>, "Wrinkled graphene-AgNWs hybrid electrodes for smart window", <u>Micromachines (IF = 3.523)</u>, Vol. 8, Issue 2, February 2017

- 105. Mihyun Lee, Si Hwa Lee, <u>II-Kwon Oh</u>, and Haeshin Lee\*, "Microwave-Accelerated Rapid, Chemical Oxidant-Free, Material-Independent Surface Chemistry of Poly(dopamine)", <u>Small</u> (IF = 15.153), Vol. 13, Issue 4, January 25, 2017
- 106. Si-Hwa Lee, Donghoon Kang, and <u>II-Kwon Oh\*</u>, "Multilayered graphene-carbon nanotube-iron oxide three-dimensional heterostructure for flexible electromagnetic interference shielding film", <u>CARBON</u> (IF = 11.307), Vol. 111, Page 248-257, January 2017 (<u>Cited more than 200 times in Google Scholar</u>)
- 107. Seok-Hu Bae, Ji-Eun Kim, Hyacinthe Randriamahazaka, Song-Yi Moon, Jeong-Young Park, and <u>Il-Kwon Oh\*</u>, "Seamlessly Conductive 3D Nanoarchitecture of Core-Shell Ni-Co Nanowire Network for Highly Efficient Oxygen Evolution", <u>Advanced Energy Materials</u> (IF = 29.698), Vol. 7, Issue 1, January 2017 (Selected as Front Cover Image) (Cited more than 250 times in Google Scholar)

- 108. Rassoul Tabassian, Jung Hwan Oh, Sooyeun Kim, Donggyu Kim, Seunghwa Ryu\*, Seung-Min Cho, Nikhil Koratkar, and <u>II-Kwon Oh\*</u>, "Graphene-coated meshes for electroactive flow control devices utilizing two antagonistic functions of repellency and permeability", <u>Nature Communications</u> (IF = 17.694), Vol. 7, October 31, 2016
- 109. Tae-Won Na, Jun-Ho Choi, Jin-Young Jung, Hyeong-Geon Kim, Jae-Hung Han, Kwang-Chun Park, and <u>II-Kwon Oh\*</u>, "Compact piezoelectric tripod manipulator based on a reverse bridge-type amplification mechanism", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 25, Issue 9, September 2016
- 110. Si-Hwa Lee, and <u>II-Kwon Oh\*</u>, "Hybrid Carbon Nanomaterials for Electromagnetic Interference Shielding", <u>Composites Research</u> (IF = 0.06), Vol. 29, Issue 4, Page 138-144, August 31, 2016
- 111. Moumita Kotal, Jaehwan Kim, Jung Hwan Oh, and <u>II-Kwon Oh\*</u>, "Recent Progress in Multifunctional Graphene Aerogels", <u>Frontiers in Materials</u> (IF = 3.985), Vol. 3, June 28, 2016
- 112. Fan Wang, Hyun-Jun Kim, Sukho Park, Chang-Doo Kee, Seong-Jun Kim, and <u>II-Kwon Oh\*</u>, "Bendable and flexible supercapacitor based on polypyrrole-coated bacterial cellulose coreshell composite network", <u>COMPOSITES SCIENCE AND TECHNOLOGY</u> (IF = 9.879), Vol. 128, Page 33-40, May 18, 2016
- 113. Asif Khan, Zafar Abas, Heung Soo Kim\*, and <u>II-Kwon Oh</u>, "Piezoelectric thin films: an integrated review of transducers and energy harvesting", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 25, Issue 5, May 2016 (<u>Cited more than 200 times in Google Scholar</u>)
- 114. Hyun-Jun Kim, Jae-Hwan Kim, Ki-woo Jun, Jong-Hun Kim, Wan-Chul Seung, Oh Hyeong Kwon, Jeong-Young Park, Sang-Woo Kim, and <u>II-Kwon Oh\*</u>, "Silk Nanofiber-Networked Bio-Triboelectric Generator: Silk Bio-TEG", <u>Advanced Energy Materials</u> (IF = 29.698), Vol. 6, Issue 8, April 20, 2016 (Selected as a front cover image) (Cited more than 200 times in Google Scholar)
- 115. Qi Shen, Sarah Trabia, Tyler Stalbaum, Viljar Palmre, Kwang Kim\*, and <u>II-Kwon Oh</u>, "A multiple-shape memory polymer-metal composite actuator capable of programmable control, creating complex 3D motion of bending, twisting, and oscillation", <u>Scientific Reports</u> (IF = 4.996), Vol. 6, April 15, 2016
- 116. Jun-Ho Choi†, Jaeho Ahn†, Jin-Bong Kim, Young-Cheol Kim, Jung-Yong Lee\*, and <u>II-Kwon Oh\*</u>, "An Electroactive, Tunable, and Frequency Selective Surface Utilizing Highly Stretchable Dielectric Elastomer Actuators Based on Functionally Antagonistic Aperture Control", Small (IF = 15.153), Vol. 12, Issue 14, Page 1840-1846, April 13, 2016 (Selected as a front cover image)

- 117. Moumita Kotal†, Jaehwan Kim†, Kwang Jin Kim, and <u>II-Kwon Oh\*</u>, "Sulfur and Nitrogen Co-Doped Graphene Electrodes for High-Performance Ionic Artificial Muscles", <u>ADVANCED MATERIALS</u> (IF = 32.086), Vol. 28, Issue 8, Page 1601-1615, February 24, 2016
- 118. Jung Hwan Jung, Moumita Kotal, Min-Ho Jang, Junseok Lee, Yong-Hoon Cho, Won-Jong Kim, and <u>II-Kwon Oh\*</u>, "Defect engineering route to boron nitride quantum dots and edge-hydroxylated functionalization for bio-imaging", **RSC Advances** (IF = 4.036), Vol. 6, Issue 77, Page 73939-73946, 2016
- 119. Fan Wang†, Jin-Han Jeon†, Sukho Park\*, Chang-Doo Kee, Seong-Jun Kim, and <u>II-Kwon Oh\*</u>, "A soft biomolecule actuator based on a highly functionalized bacterial cellulose nano-fiber network with carboxylic acid groups", <u>Soft Matter (IF = 4.046)</u>, Vol. 12, Issue 1, Page 246-254, 2016

- 120. Sumanta Sahoo†, Seok-Hu Bae†, Yun-Sung Lee, Jung-Min Lee, Joon-Mo Ahn, Chun-Gon Kim, and <u>II-Kwon Oh\*</u>, "Defect-engineered mesoporous ternary nanoarchitecture of zinc-cobalt-oxide/nitrogen-doped graphene as anode material in lithium ion batteries", <u>CARBON</u> (IF = 11.307), Vol. 94, Page 455-463, November 2015
- 121. Byung-Jin Kwon†, Jin-Young Jung†, Dooho Lee, Kwang-Chun Park, and <u>II-Kwon Oh\*</u>, "Tunable acoustic waveguide based on vibro-acoustic metamaterials with shunted piezoelectric unit cells", <u>Smart Materials and Structures (IF = 4.131)</u>, Vol. 24, Issue 10, October 2015
- 122. Sima Umrao†, Tejendra K. Gupta†, Shiv Kumar, Vijay K. Singh, Manish K. Sultania, Jung Hwan Jung, <u>II-Kwon Oh</u>, and Anchal Srivastava\*, "Microwave-Assisted Synthesis of Boron and Nitrogen co-doped Reduced Graphene Oxide for the Protection of Electromagnetic Radiation in Ku-Band", <u>ACS Applied Materials & Interfaces (IF = 10.383)</u>, Vol. 7, Issue 35, Page 19831-19842, September 9, 2015
- 123. Hossein Moeinkhah\*, Jalil Rezaeepazhand, Alireza Akbarzadeh, and <u>II-Kwon Oh\*</u>, "Accurate Dynamic Modeling of Helical Ionic Polymer-Metal Composite Actuator Based on Intrinsic Equations", <u>IEEE-ASME TRANSACTIONS ON MECHATRONICS</u> (IF = 5.867), Vol. 20, Issue 4, Page 1680-1688, August 2015
- 124. Rajesh Kumar†, Jung-Hwan Oh†, Hyun-Jun Kim, Jung-Hwan Jung, Chan-Ho Jung, Won G. Hong, Hae-Jin Kim, Jeong-Young Park\*, and <u>II-Kwon Oh\*</u>, "Nanohole-Structured and Palladium-Embedded 3D Porous Graphene for Ultrahigh Hydrogen Storage and CO Oxidation Multifunctionalities", ACS Nano (IF = 18.027), Vol. 9, Issue 7, Page 7343-7351, July 2015
- 125. Si-Seup Kim†, Jin-Han Jeon†, Hyun-Il Kim, Chang Doo Kee, and <u>II-Kwon Oh\*</u>, "High-Fidelity Bioelectronic Muscular Actuator Based on Graphene-Mediated and TEMPO-Oxidized Bacterial Cellulose", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 25, Issue 23, Page 3560-3570, June 17, 2015
- 126. Choonghee Jo†, Jihoon Jeong†, Byung-Jin Kwon, Kwang-Chun Park, and <u>II-Kwon Oh\*</u>, "Omnidirectional two-dimensional acoustic cloak by axisymmetric cylindrical lattices", WAVE MOTION (IF = 2.174), Vol. 54, Page 157-169, April 2015
- 127. Seok-In Sohn†, Jung-Hwan Oh†, Yeon-Seung Lee\*, Dae-Hwan Park, and <u>II-Kwon Oh\*</u>, "Design of a Fuel-Cell-Powered Catamaran-Type Unmanned Surface Vehicle", <u>IEEE JOURNAL OF OCEANIC ENGINEERING</u> (IF = 3.883), Vol. 40, Issue 2, Page 388-396, April 2015
- 128. Sima Umrao†, Min-Ho Jang†, Jung-Hwan Oh, Guntae Kim, Sumanta Sahoo, Yong-Hoon Cho\*, Anchal Srivastva\*, and <u>Il-Kwon Oh\*</u>, "Microwave bottom-up route for size-tunable and switchable photoluminescent graphene quantum dots using acetylacetone: New platform for enzyme-free detection of hydrogen peroxide", CARBON (IF = 11.307), Vol. 81, Page 514-524, January 2015

129. Varij Panwar, Jin-Han Jeon, Gopinathan Anoop, Hyeon Jun Lee, <u>II-Kwon Oh</u>, and Ji Young Jo\*, "Low voltage actuator using ionic polymer metal nanocomposites based on a miscible polymer blend", <u>Journal of Materials Chemistry A (IF = 14.511)</u>, Vol. 3, Issue 39, Page 19718-19727, 2015

- 130. Hyun-Jun Kim, Hyacinthe Randriamahazaka, and <u>II-Kwon Oh\*</u>, "Highly Conductive, Capacitive, Flexible and Soft Electrodes Based on a 3D Graphene-Nanotube-Palladium Hybrid and Conducting Polymer", <u>Small (IF = 15.153)</u>, Vol. 10, Issue 24, Page 5023-5029, December 29, 2014
- 131. Tae-Won Na, Dae-Hyun Kang, Jin-Young Jung, Jae-Hung Han, and <u>II-Kwon Oh\*</u>, "Linear-to-rotary motion converter using asymmetric compliant mechanics and single-crystal PMN-PT stack actuator", **JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES (IF = 2.774)**, Vol. 25, Issue 18, Page 2221-2227, December 2014
- 132. Rajesh Kumara†, Hyun-Jun Kim†, Sungjin Park, Anchal Srivastava, and <u>II-Kwon Oh\*</u>, "Graphene-wrapped and cobalt oxide-intercalated hybrid for extremely durable supercapacitor with ultrahigh energy and power densities", <u>CARBON (IF = 11.307)</u>, Vol. 79, Page 192-202, November 2014
- 133. Ravi Kumar Cheedarala†, Jin-Han Jeon†, Chang-Doo Kee, and <u>II-Kwon Oh\*</u>, "Bio-Inspired All-Organic Soft Actuator Based on a  $\pi$ - $\pi$  Stacked 3D Ionic Network Membrane and Ultra-Fast Solution Processing", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 24, Issue 38, Page 6005-6015, October 15, 2014
- 134. Sang-Heon Lee, Jung-Hwan Jung, and <u>II-Kwon Oh\*</u>, "3D Networked Graphene-Ferromagnetic Hybrids for Fast Shape Memory Polymers with Enhanced Mechanical Stiffness and Thermal Conductivity", <u>Small (IF = 15.153)</u>, Vol. 10, Issue 19, Page 3880-3886, October 15, 2014
- 135. Tae-Won Na, Jin-Young Jung, and <u>II-Kwon Oh\*</u>, "Bio-Inspired Bending Actuator for Controlling Conical Nose Shape Using Piezoelectric Patches", <u>JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY</u> (IF = 1.134), Vol. 14, Issue 10, Page 7463-7468, October 2014
- 136. <u>II-Kwon Oh</u>, Haeshin Lee, and Won Jong Kim, "A Special Section on Nanotechnology for Biomimetics and Nano-Biomaterials", <u>JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY</u> (IF = 1.134), Vol. 14, Issue 10, Page 7361-7362, October 2014
- 137. Kiwoo Jun, Jae Min Lee, Jung-Yong Lee, and <u>II-Kwon Oh\*</u>, "Bio-Inspired Dielectric Elastomer Actuator with AgNWs Coated on Carbon Black Electrode", <u>JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY</u> (IF = 1.134), Vol. 14, Issue 10, Page 7483-7487, October 2014
- 138. Choonghee Jo, and <u>II-Kwon Oh\*</u>, "A revisit to imperfect acoustic cloak of multi-layered shell structures considering sound speed and impedance matching", <u>JOURNAL OF SOUND AND VIBRATION</u> (IF = 4.761), Vol. 333, Issue 19, Page 4637-4652, September 14, 2014
- 139. Gun-Tae Kim†, Su-Ji Gim†, Seung-Min Cho, Nikhil Koratkar\*, and <u>II-Kwon Oh\*</u>, "Wetting-Transparent Graphene Films for Hydrophobic Water-Harvesting Surfaces", <u>ADVANCED MATERIALS</u> (IF = 32.086), Vol. 26, Issue 30, Page 5166-5172, August 13, 2014
- 140. Feng Xiang, Jing Zhong, Ningyu Gu, Rahul Mukherjee, <u>II-Kwon Oh</u>, Nikhil Koratkar\*, and Zhenyu Yang\*, "Far-infrared reduced graphene oxide as high performance electrodes for supercapacitors", <u>CARBON</u> (IF = 11.307), Vol. 75, Page 201-208, August 2014
- 141. Fan Wang, Si-Seup Kim, Chang-Doo Kee\*, Yun-De Shen, and <u>II-Kwon Oh\*</u>, "Novel electroactive PVA-TOCN actuator that is extremely sensitive to low electrical inputs", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 23, Issue 7, July 2014

- 142. Jaehwan Kim, Jin-Han Jeon, Hyun-Jun Kim, Hyuneui Lim, and <u>II-Kwon Oh\*</u>, "Durable and Water-Floatable Ionic Polymer Actuator with Hydrophobic and Asymmetrically Laser-Scribed Reduced Graphene Oxide Paper Electrodes", <u>ACS Nano (IF = 18.027)</u>, Vol. 8, Issue 3, Page 2986-2997, March 2014 (Cited more than 200 times in Google Scholar)
- 143. Yogendra Lal Verma, Rajendra Kumar Singh\*, <u>II-Kwon Oh</u>, and Suresh Chandra, "Ionic liquid template assisted synthesis of porous nano-silica nails", <u>RSC Advances (IF = 4.036)</u>, Vol. 4, Issue 75, Page 39978-39983, 2014
- 144. <u>II-Kwon Oh\*</u>, Anchal Srivastava, In-Kyu Park, and Michael Z. Hu, "Nano for Biomimetics and Biomaterials", <u>Journal of Nanomaterials</u> (IF = 3.791), Vol. 2014, 2014

- 145. Jin-Han Jeon†, Ravi Kumar Cheedarala†, Chang-Doo Kee\*, and <u>II-Kwon Oh\*</u>, "Dry-Type Artificial Muscles Based on Pendent Sulfonated Chitosan and Functionalized Graphene Oxide for Greatly Enhanced Ionic Interactions and Mechanical Stiffness", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 23, Issue 48, Page 6007-6018, December 23, 2013
- 146. Jiexin Dang, Feng Xiang, Ningyu Gu, Rongbin Zhang, Rahul Mukherjee, <u>II-Kwon Oh</u>, Nikhil Koratkar\*, and Zhenyu Yang\*, "Synthesis and electrochemical performance characterization of Ce-doped Li3V2(PO4)3/C as cathode materials for lithium-ion batteries", <u>JOURNAL OF POWER SOURCES</u> (IF = 9.794), Vol. 243, Page 33-39, December 1, 2013
- 147. Seok-Hu Bae, Kaliyappan Karthikeyan, Yun-Sung Lee\*, and <u>II-Kwon Oh\*</u>, "Microwave self-assembly of 3D graphene-carbon nanotube-nickel nanostructure for high capacity anode material in lithium ion battery", <u>CARBON</u> (IF = 11.307), Vol. 64, Page 527-536, November 2013
- 148. Cheng-Hai Hong, Seong-Jong Ki, Jin-Han Jeon, Hui-lian Che, In-Kyu Park, Chang-Doo Kee\*, and <u>II-Kwon Oh\*</u>, "Electroactive bio-composite actuators based on cellulose acetate nanofibers with specially chopped polyaniline nanoparticles through electrospinning", <u>COMPOSITES SCIENCE AND TECHNOLOGY</u> (IF = 9.879), Vol. 87, Page 135-141, October 18, 2013
- 149. Sridhar Vadahanambi, Sang-Heon Lee, Won-Jong Kim, and <u>II-Kwon Oh\*</u>, "Arsenic Removal from Contaminated Water Using Three-Dimensional Graphene-Carbon Nanotube-Iron Oxide Nanostructures", <u>ENVIRONMENTAL SCIENCE & TECHNOLOGY</u> (IF = 11.357), Vol. 47, Issue 18, Page 10510-10517, September 17, 2013 (<u>Cited more than 200 times in Google Scholar</u>)
- 150. Rajesh Kumar\*, Rajesh Kumar Singh, Pawan Kumar Dubey, Pradip Kumar, Radhey Shyam Tiwari, and <u>II-Kwon Oh</u>, "Pressure-dependent synthesis of high-quality few-layer graphene by plasma-enhanced arc discharge and their thermal stability", <u>JOURNAL OF NANOPARTICLE RESEARCH</u> (IF = 2.533), Vol. 15, Issue 9, September 2013
- 151. Si-Seup Kim, Jin-Han Jeon, Chang-Doo Kee\*, and <u>II-Kwon Oh\*</u>, "Electro-active hybrid actuators based on freeze-dried bacterial cellulose and PEDOT:PSS", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 22, Issue 8, August 2013
- 152. Choonghee Jo†, David Pugal†, <u>II-Kwon Oh\*</u>, Kwang Jin Kim\*, and Kinji Asaka\*, "Recent advances in ionic polymer-metal composite actuators and their modeling and applications", <u>PROGRESS IN POLYMER SCIENCE (IF = 31.281)</u>, Vol. 38, Issue 7, Page 1037-1066, July 2013 (Cited more than 350 times in Google Scholar)
- 153. Eun-Chae Yim, Seong-Jun Kim\*, <u>II-Kwon Oh</u>, and Chang-Doo Kee, "Plasma Surface Modification of Graphene and Combination with Bacteria Cellulose", <u>Korean Chemical Engineering Research</u> (IF = 0.09), Vol. 51, Issue 3, Page 388-393, June 1, 2013
- 154. Si-Hwa Lee, Vadahanambi Sridhar, Jung-Hwan Jung, Kaliyappan Karthikeyan, Yun-Sung Lee, Rahul Mukherjee, Nikhil Koratkar, and <u>Il-Kwon Oh\*</u>, "Graphene-Nanotube-Iron Hierarchical

- Nanostructure as Lithium Ion Battery Anode", ACS Nano (IF = 18.027), Vol. 7, Issue 5, Page 4242-4251, May 2013 (Cited more than 200 times in Google Scholar)
- 155. Sridhar Vadahanambi, Jung-Hwan Jung, Rajesh Kumar, Hyun-Jun Kim, and <u>II-Kwon Oh\*</u>, "An ionic liquid-assisted method for splitting carbon nanotubes to produce graphene nanoribbons by microwave radiation", CARBON (IF = 11.307), Vol. 53, Page 391-398, March 2013
- 156. Hossein Moeinkhah, Jin-Young Jung, Jin-Han Jeon, Ali Akbarzadeh, Jalil Rezaeepazhand, Kwang-Chun Park, and <u>II-Kwon Oh\*</u>, "How does clamping pressure influence actuation performance of soft ionic polymer-metal composites?", <u>Smart Materials and Structures (IF = 4.131)</u>, Vol. 22, Issue 2, February 2013
- 157. Hai-Long Xing, Jin-Han Jeon, Kwang-Chun Park, and <u>II-Kwon Oh</u>, "Active Disturbance Rejection Control for Precise Position Tracking of Ionic Polymer-Metal Composite Actuators", <u>IEEE-ASME TRANSACTIONS ON MECHATRONICS (IF = 5.867)</u>, Vol. 18, Issue 1, Page 86-95, February 2013
- 158. Byung-Jin Kwon, Choonghee Jo, Kwang-Chun Park, and <u>II-Kwon Oh\*</u>, "Wave Propagation Characteristics of Acoustic Metamaterials with Helmholtz Resonators", <u>Transactions of the Korean Society for Noise and Vibration Engineering (IF = 0.47)</u>, Vol. 23, Issue 2, Page 167-175, 2013

- 159. Vadahanambi Sridhar†, Hyun-Jun Kim†, Jung-Hwan Jung, Changgu Lee, Sungjin Park, and II-Kwon Oh\*, "Defect-Engineered Three-Dimensional Graphene-Nanotube-Palladium Nanostructures with Ultrahigh Capacitance", ACS Nano (IF = 18.027), Vol. 6, Issue 12, Page 10562-19570, December 2012
- 160. Jae-Hong Jung, Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "Electromagnetic Synchronized Switch Damping for Vibration Control of Flexible Beams", <u>IEEE-ASME TRANSACTIONS ON MECHATRONICS</u> (IF = 5.867), Vol. 17, Issue 6, Page 1031-1038, December 2012
- 161. SeongJun Kim\*, Hongxian Li, <u>II-Kwon Oh</u>, ChangDoo Kee, and MyongJun Kim, "Effect of viscosity-inducing factors on oxygen transfer in production culture of bacterial cellulose", <u>KOREAN JOURNAL OF CHEMICAL ENGINEERING (IF = 3.146)</u>, Vol. 29, Issue 6, Page 792-797, June 2012
- 162. Jin-Han Jeon, Choonghee Jo, and <u>II-Kwon Oh\*</u>, "Nonlinear dynamics of curved IPMC actuators undergoing electrically driven large deformations", <u>International Journal of Smart and Nano Materials (IF = 4.000)</u>, Vol. 3, Issue 3, Page 214-225, 2012

- 163. Hyunwoo Kim, Ran Namgung, Kaushik Singha, <u>II-Kwon Oh</u>, and Won Jong Kim\*, "Graphene Oxide-Polyethylenimine Nanoconstruct as a Gene Delivery Vector and Bioimaging Tool", <u>BIOCONJUGATE CHEMISTRY</u> (IF = 6.069), Vol. 22, Issue 12, Page 2558-2567, December 2011 (Cited more than 350 times in Google Scholar)
- 164. Hong Xian Li, Seong-Jun Kim\*, Yong-Woon Lee, Chang Doo Kee, and <u>II-Kwon Oh</u>, "Determination of the stoichiometry and critical oxygen tension in the production culture of bacterial cellulose using saccharified food wastes", <u>KOREAN JOURNAL OF CHEMICAL ENGINEERING</u> (IF = 3.146), Vol. 28, Issue 12, Page 2306-2311, December 2011
- 165. Jin-Han Jeon, and <u>II-Kwon Oh\*</u>, "Introduction to Ionic Polymer-Metal Composite Actuators and Their Applications", <u>Journal of the Korean Society for Precision Engineering</u> (IF = 0.26), Vol. 28, Issue 11, Page 1242-1250, November 1, 2011

- 166. Sridhar Vadahanambi, Jung-Hwan Jung, and <u>II-Kwon Oh\*</u>, "Microwave syntheses of graphene and graphene decorated with metal nanoparticles", CARBON (IF = 11.307), Vol. 49, Issue 13, Page 4449-4457, November 2011
- 167. Jiangxuan Song, Jin-Han Jeon, <u>II-Kwon Oh\*</u>, and Kwang-Chun Park, "Electro-active Polymer Actuator Based on Sulfonated Polyimide with Highly Conductive Silver Electrodes Via Self-metallization", <u>MACROMOLECULAR RAPID COMMUNICATIONS</u> (IF = 5.006), Vol. 32, Issue 19, Page 1583-1587, October 4, 2011
- 168. Akbar Jafari, Jin-Han Jeon, and <u>II-Kwon Oh\*</u>, "Well-aligned Nano-fiberous Membranes Based on Three-pole Electrospinning with Channel Electrode", <u>MACROMOLECULAR RAPID COMMUNICATIONS</u> (IF = 5.006), Vol. 32, Issue 12, Page 921-926, June 16, 2011
- 169. Jia Li, Sridhar Vadahanambi, Chang-Doo Kee, and <u>II-Kwon Oh\*</u>, "Electrospun Fullerenol-Cellulose Biocompatible Actuators", <u>BIOMACROMOLECULES</u> (IF = 6.978), Vol. 12, Issue 6, Page 2048-2054, June 2011
- 170. Jung-Hwan Jung, Jin-Han Jeon, Vadahanambi Sridhar, and <u>II-Kwon Oh\*</u>, "Electro-active graphene-Nafion actuators", <u>CARBON (IF = 11.307)</u>, Vol. 49, Issue 4, Page 1279-1289, April 2011 (<u>Cited more than 200 times in Google Scholar</u>)
- 171. Jun Lu\*, Sang-Gyun Kim, Sunwoo Lee, and <u>II-Kwon Oh\*</u>, "Actuation of Electro-Active Artificial Muscle at Ultralow Frequency", <u>MACROMOLECULAR CHEMISTRY AND PHYSICS (IF = 2.996)</u>, Vol. 212, Issue 6, Page 635-642, March 15, 2011
- 172. Mahendran Rajagopalan, and <u>II-Kwon Oh\*</u>, "Fullerenol-Based Electroactive Artificial Muscles Utilizing Biocompatible Polyetherimide", <u>ACS Nano (IF = 18.027)</u>, Vol. 5, Issue 3, Page 2248-2256, March 2011
- 173. Song-Lin Li, Woo-Young Kim, Tai-Hong Cheng, and <u>II-Kwon Oh\*</u>, "A helical ionic polymermetal composite actuator for radius control of biomedical active stents", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 20, Issue 3, March 2011
- 174. V. Sridhar, Jin-Han Jeon, and <u>II-Kwon Oh\*</u>, "Microwave extraction of graphene from carbon fibers", <u>CARBON</u> (IF = 11.307), Vol. 49, Issue 1, Page 222-226, January 2011
- 175. Qunwei Tang, Ziying Tang, Jihuai Wu\*, Jianming Lin, and <u>II-Kwon Oh\*</u>, "Highly conducting multilayer films from graphenenanosheets by a spin self-assembly method", <u>JOURNAL OF MATERIALS CHEMISTRY</u> (IF = 6.626), Vol. 21, Issue 14, Page 5378-5385, 2011

- 176. Mahendran Rajagopalan, Jin-Han Jeon, and <u>II-Kwon Oh\*</u>, "Electric-stimuli-responsive bending actuator based on sulfonated polyetherimide", <u>SENSORS AND ACTUATORS B-CHEMICAL (IF = 9.221)</u>, Vol. 151, Issue 1, Page 198-204, November 26, 2010
- 177. Eunhye Jung, Kyungho Park, Jaewook Kim, Hee-Tae Jung, <u>II-Kwon Oh</u>, and Sunwoo Lee\*, "Palladium-catalyzed Mizoroki-Heck coupling reactions using sterically bulky phosphite ligand", <u>INORGANIC CHEMISTRY COMMUNICATIONS</u> (IF = 3.428), Vol. 13, Issue 11, Page 1329-1331, November 2010
- 178. Xuan-Lun Wang, <u>II-Kwon Oh\*</u>, and Sunwoo Lee, "Electroactive artificial muscle based on crosslinked PVA/SPTES", <u>SENSORS AND ACTUATORS B-CHEMICAL</u> (IF = 9.221), Vol. 150, Issue 1, Page 57-64, September 21, 2010
- 179. Vadahanambi Sridhar, and <u>II-Kwon Oh\*</u>, "A coagulation technique for purification of graphene sheets with graphene-reinforced PVA hydrogel as byproduct", <u>JOURNAL OF COLLOID AND INTERFACE SCIENCE (IF = 9.965)</u>, Vol. 348, Issue 2, Page 384-387, August 15, 2010
- 180. Vadahanambi Sridhar, Jin-Han Jeon, and <u>II-Kwon Oh\*</u>, "Synthesis of graphene nano-sheets using eco-friendly chemicals and microwave radiation", <u>CARBON</u> (IF = 11.307), Vol. 48, Issue 10, Page 2953-2957, August 2010

- 181. <u>II-Kwon Oh\*</u>, Jung-Hwan Jung, Jin-Han Jeon, and Sridhar Vadahanambi, "Electro-chemomechanical characteristics of fullerene-reinforced ionic polymer-metal composite transducers", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 19, Issue 7, July 2010
- 182. Eunjin Song, Jinhyung Park, <u>II-Kwon Oh</u>, Hyun Min Jung, and Sunwoo Lee\*, "Ligand-free Palladium-Catalyzed Mizoroki-Heck-type Reaction of Arylboronic Acids and Alkenes Using Silver Cation", <u>BULLETIN OF THE KOREAN CHEMICAL SOCIETY</u> (IF = 1.241), Vol. 31, Issue 6, Page 1789-1792, June 20, 2010
- 183. Youngshin Jo, Ja Young Kim, <u>II-Kwon Oh</u>, Hyun Chul Choi\*, and Sunwoo Lee\*, "Ligand-Free Palladium Catalytic System Supported by CNT and its Application to the Mizoroki Heck Reactions", <u>BULLETIN OF THE KOREAN CHEMICAL SOCIETY</u> (IF = 1.241), Vol. 31, Issue 6, Page 1735-1738, June 20, 2010
- 184. Xuan-Lun Wang, and <u>II-Kwon Oh\*</u>, "Sulfonated Poly(styrene-b-ethylene-co-butylene-b-styrene) and Fullerene Composites for Ionic Polymer Actuators", <u>JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY</u> (IF = 1.134), Vol. 10, Issue 5, Page 3203-3206, May 2010
- 185. Jin-Han Jeon, <u>II-Kwon Oh\*</u>, Chang-Doo Kee, and Seong-Jun Kim, "Bacterial cellulose actuator with electrically driven bending deformation in hydrated condition", <u>SENSORS AND ACTUATORS B-CHEMICAL (IF = 9.221)</u>, Vol. 146, Issue 1, Page 307-313, April 8, 2010
- 186. Jung-Hwan Jung, Sridhar Vadahanambi, and <u>II-Kwon Oh\*</u>, "Electro-active nano-composite actuator based on fullerene-reinforced Nafion", <u>COMPOSITES SCIENCE AND TECHNOLOGY</u> (IF = 9.879), Vol. 70, Issue 4, Page 584-592, April 2010
- 187. Xuan-Lun Wang, <u>II-Kwon Oh\*</u>, and Liang Xu, "Electro-active artificial muscle based on irradiation-crosslinked sulfonated poly(styrene-ran-ethylene)", <u>SENSORS AND ACTUATORS B-CHEMICAL (IF = 9.221)</u>, Vol. 145, Issue 2, Page 635-642, March 19, 2010
- 188. Jin-Han Jeon, Tai-Hong Cheng, and <u>II-Kwon Oh\*</u>, "Snap-through dynamics of buckled IPMC actuator", <u>SENSORS AND ACTUATORS A-PHYSICAL</u> (IF = 4.291), Vol. 158, Issue 2, Page 300-305, March 2010
- 189. Xuan-Lun Wang, <u>II-Kwon Oh\*</u>, and Tai-Hong Cheng, "Electro-active polymer actuators employing sulfonated poly(styrene-ran-ethylene) as ionic membranes", <u>POLYMER INTERNATIONAL (IF = 3.213)</u>, Vol. 59, Issue 3, Page 305-312, March 2010

- 190. Jin-Han Jeon, Seong-Pal Kang, Sunwoo Lee, and <u>II-Kwon Oh\*</u>, "Novel biomimetic actuator based on SPEEK and PVDF", <u>SENSORS AND ACTUATORS B-CHEMICAL</u> (IF = 9.221), Vol. 143, Issue 1, Page 357-364, December 4, 2009
- 191. Tai-Hong Cheng, and <u>II-Kwon Oh\*</u>, "Coil-based Electromagnetic Damper and Actuator for Vibration Suppression of Cantilever Beams", <u>JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES (IF = 2.774)</u>, Vol. 20, Issue 18, Page 2237-2247, December 2009
- 192. Xuan-Lun Wang, <u>II-Kwon Oh\*</u>, and Jin-Bong Kim, "Enhanced electromechanical performance of carbon nano-fiber reinforced sulfonated poly(styrene-b-[ethylene/butylene]-b-styrene) actuator", <u>COMPOSITES SCIENCE AND TECHNOLOGY</u> (IF = 9.879), Vol. 69, Issue 13, Page 2098-2101, October 2009
- 193. Eunjin Song, Youngshin Jo, Goun Bae, <u>II-Kwon Oh</u>, Hyun Min Jung, and Sunwoo Lee\*, "Synthesis of Phosphinodiselenoic Acid Ester Derivatives and their Application in the Controlled Radical Polymerization of Styrene", <u>BULLETIN OF THE KOREAN CHEMICAL SOCIETY (IF = 1,241)</u>, Vol. 30, Issue 9, Page 2129-2131, September 20, 2009
- 194. <u>II-Kwon Oh\*</u>, and Dong-Hyun Kim, "Vibration characteristics and supersonic flutter of cylindrical composite panels with large thermoelastic deflections", **COMPOSITE STRUCTURES** (IF = 6.603), Vol. 90, Issue 2, Page 208-216, September 2009

- 195. Tai-Hong Cheng, and <u>II-Kwon Oh\*</u>, "A current-flowing electromagnetic shunt damper for multi-mode vibration control of cantilever beams", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 18, Issue 9, September 2009
- 196. Sung-Weon Yeom, and <u>II-Kwon Oh\*</u>, "A biomimetic jellyfish robot based on ionic polymer metal composite actuators", <u>Smart Materials and Structures (IF = 4.131)</u>, Vol. 18, Issue 8, August 2009 (www.physorg.com, Jellyfish Robot Swims Like its Biological Counterpart, 26/6/2009) (<u>Cited more than 400 times in Google Scholar</u>)
- 197. Won-Ho Shin, <u>II-Kwon Oh\*</u>, and In Lee, "Nonlinear flutter of aerothermally buckled composite shells with damping treatments", <u>JOURNAL OF SOUND AND VIBRATION</u> (IF = 4.761), Vol. 324, Issue 3-5, Page 556-569, July 24, 2009
- 198. Jin-Han Jeon, and <u>II-Kwon Oh\*</u>, "Selective growth of platinum electrodes for MDOF IPMC actuators", THIN SOLID FILMS (IF = 2.358), Vol. 517, Issue 17, Page 5288-5292, July 1, 2009
- 199. Mihee Jang, Youngshin Jo, <u>II-Kwon Oh</u>, Hyun Min Jung, and Sunwoo Lee\*, "Suzuki-Miyaura Coupling Reactions Using Phosphite Ligands", <u>SYNTHESIS-STUTTGART</u> (IF = 2.969), Issue 12, Page 2073-2075, June 17, 2009
- 200. Won-Ho Shin, Seung-Jun Lee, <u>II-Kwon Oh\*</u>, and In Lee\*, "Thermal post-buckled behaviors of cylindrical composite shells with viscoelastic damping treatments", <u>JOURNAL OF SOUND AND VIBRATION</u> (IF = 4.761), Vol. 323, Issue 1-2, Page 93-111, June 5, 2009
- 201. Seung-Hyun Lim, <u>II-Kwon Oh\*</u>, and Jung-Ryul Lee, "Ultrasonic Active Fiber Sensor based on Pulse-echo Method", <u>JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES</u> (<u>IF = 2.774</u>), Vol. 20, Issue 9, Page 1035-1043, June 2009
- 202. Tai-Hong Cheng, and <u>II-Kwon Oh\*</u>, "Vibration Suppression of Flexible Beam Using Electromagnetic Shunt Damper", <u>IEEE TRANSACTIONS ON MAGNETICS</u> (IF = 1.848), Vol. 45, Issue 6, Page 2758-2761, June 2009
- 203. Nguyen Truong Thinh, Young-Soo Yang, and <u>II-Kwon Oh\*</u>, "Adaptive neuro-fuzzy control of ionic polymer metal composite actuators", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 18, Issue 6, June 2009
- 204. Jun Lu\*, <u>II-Kwon Oh</u>, and Rui Huang, "Growth of Spatial Dendrites in Bisphenol-A Polycarbonate Induced by Dioctyl Phthalate at High Pressure", <u>MOLECULAR CRYSTALS AND LIQUID CRYSTALS</u> (IF = 0.672), Vol. 511, Page 1797-1806, 2009
- 205. <u>II-Kwon Oh\*</u>, "Damping Characteristics of Cylindrical Laminates with Viscoelastic Layer Considering Temperature- and Frequency-Dependence", <u>JOURNAL OF THERMAL STRESSES</u> (IF = 3.456), Vol. 32, Issue 1-2, Page 1-20, 2009

- 206. Jun Lu, Sang-Gyun Kim, Sunwoo Lee, and <u>II-Kwon Oh\*</u>, "Fabrication and actuation of electro-active polymer actuator based on PSMI-incorporated PVDF", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 17, Issue 4, August 2008
- 207. Jun Lu, Sang-Gyun Kim, Sunwoo Lee, and <u>II-Kwon Oh\*</u>, "A Biomimetic Actuator Based on an Ionic Networking Membrane of Poly(styrene-alt-maleimide)-Incorporated Poly(vinylidene fluoride)", <u>ADVANCED FUNCTIONAL MATERIALS</u> (IF = 19.924), Vol. 18, Issue 8, Page 1290-1298, April 25, 2008
- 208. <u>II-Kwon Oh\*</u>, and Jin-Young Jung, "Biomimetic Nano-composite Actuators Based on Carbon Nanotubes and Ionic Polymers", <u>JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES (IF = 2.774)</u>, Vol. 19, Issue 3, Page 305-311, March 2008
- 209. <u>II-Kwon Oh\*</u>, Seung-Hyun Lim, Jung-Ryul Lee, and Fu-Kuo Chang, "Fiber Sensor Based on Piezoelectric Ultrasonic Wave", <u>JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES</u> (IF = 2.774), Vol. 19, Issue 3, Page 299-304, March 2008

- 210. Dong-Hyun Kim\*, Yu-Sung Kim, Yo-Han Kim, and <u>II-Kwon Oh</u>, "Supersonic and Hypersonic Flutter Characteristics for Various Typical Section Shapes of Missile Fin", <u>Transactions of the Korean Society for Noise and Vibration Engineering (IF = 0.47)</u>, Vol. 18, Issue 5, Page 496-502, 2008
- 211. Jun Lu\*, <u>II-Kwon Oh</u>, Rui Huang, Tai-Hong Cheng, and Xuan-Lun Wang, "Electron microscopy of high pressure crystallised poly (p-phenylene sulfide)", <u>PLASTICS RUBBER AND COMPOSITES (IF = 1.843)</u>, Vol. 37, Issue 5-6, Page 263-267, 2008
- 212. Jin-Han Jeon, Sung-Won Yeom, and <u>II-Kwon Oh\*</u>, "Fabrication and actuation of ionic polymer metal composites patterned by combining electroplating with electroless plating", <u>COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING (IF = 9.463)</u>, Vol. 39, Issue 4, Page 588-596, 2008

- 213. Xuan-Lun Wang, <u>II-Kwon Oh\*</u>, Jun Lu, Jinhun Ju, and Sunwoo Lee\*, "Biomimetic electroactive polymer based on sulfonated poly (styrene-b-ethylene-co-butylene-b-styrene)", <u>MATERIALS LETTERS</u> (IF = 3.574), Vol. 61, Issue 29, Page 5117-5120, December 2007
- 214. Jin-Young Jung, and <u>II-Kwon Oh\*</u>, "Novel nanocomposite actuator based on sulfonated poly(styrene-b-ethylene-co-butylene-b-styrene) polymer", <u>JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY</u> (IF = 1.134), Vol. 7, Issue 11, Page 3740-3743, November 2007
- 215. Jun Lu, Rui Huang\*, and <u>II-Kwon Oh\*</u>, "Morphology investigation on high-pressure crystallized bisphenol-A polycarbonate/dioctyl phthalate blends", <u>JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS (IF = 3.151)</u>, Vol. 45, Issue 19, Page 2715-2728, October 1, 2007
- 216. <a href="II-Kwon Oh">II-Kwon Oh</a>\*, and Dong-Weon Lee, "Resonant frequency and instability of multi-layered micro-resonators with initial imperfection subject to piezoelectric loads", MICROELECTRONIC ENGINEERING (IF = 2.662), Vol. 84, Issue 5-8, Page 1388-1392, May 2007
- 217. Dong-Weon Lee\*, and <u>II-Kwon Oh</u>, "Micro/nano-heater integrated cantilevers for micro/nano-lithography applications", <u>MICROELECTRONIC ENGINEERING</u> (IF = 2.662), Vol. 84, Issue 5-8, Page 1041-1044, May 2007
- 218. Jun Lu, Rui Huang\*, and <u>II-Kwon Oh\*</u>, "Melt Crystallization and Morphology of Poly(p-phenylene sulfide) under High Pressure", <u>MACROMOLECULAR CHEMISTRY AND PHYSICS (IF = 2.996)</u>, Vol. 208, Issue 4, Page 405-414, February 21, 2007
- 219. Jun Lu\*, <u>II-Kwon Oh</u>, Rui Huang, and Liang-Bin Li, "Growth of novel stereo-open spherulites in a bisphenol-A polycarbonate/dioctyl phthalate blend at hydrostatic pressure", <u>CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE (IF = 0.786)</u>, Vol. 28, Issue 2, Page 385-387, February 10, 2007
- 220. <u>II-Kwon Oh\*</u>, "Dynamic characteristics of cylindrical hybrid panels containing viscoelastic layer based on layerwise mechanics", <u>COMPOSITES PART B-ENGINEERING</u> (IF = 11.322), Vol. 38, Issue 2, Page 159-171, 2007

#### 2006 and Before

- 221. <u>II-Kwon Oh\*</u>, "Piezoelectric suppression of thermoelastic snap-through in active piezolaminated curved shells", <u>Smart Materials and Structures</u> (IF = 4.131), Vol. 15, Issue 6, Page 1616-1626, December 2006
- 222. Won-Ho Shin, <u>II-Kwon Oh</u>, Jae-Hung Han, and In Lee\*, "Aeroelastic characteristics of cylindrical hybrid composite panels with viscoelastic damping treatments",

- JOURNAL OF SOUND AND VIBRATION (IF = 4.761), Vol. 296, Issue 1-2, Page 99-116, September 12, 2006
- 223. <u>II-Kwon Oh\*</u>, and In Lee, "Supersonic flutter suppression of piezolaminated cylindrical panels based on multifield layerwise theory", <u>JOURNAL OF SOUND AND VIBRATION</u> (IF = 4.761), Vol. 291, Issue 3-5, Page 1186-1201, April 4, 2006
- 224. <u>II-Kwon Oh\*</u>, "Thermopiezoelastic nonlinear dynamics of active piezolaminated plates", Smart Materials and Structures (IF = 4.131), Vol. 14, Issue 4, Page 823-834, August 2005
- 225. <u>II-Kwon Oh\*</u>, "Thermopiezoelastic Nonlinear Dynamic Characteristics of Piezolaminated Plates", <u>Transactions of the Korean Society for Noise and Vibration Engineering (IF = 0.47)</u>, Vol. 15, Issue 7, Page 836-842, 2005
- 226. Jin-Ho Roh, <u>II-Kwon Oh</u>, Seung-Man Yang, Jae-Hung Han\*, and In Lee, "Thermal post-buckling analysis of shape memory alloy hybrid composite shell panels", <u>Smart Materials</u> and <u>Structures</u> (IF = 4.131), Vol. 13, Issue 6, Page 1337-1344, December 2004
- 227. Jung Jin Lee, <u>II-Kwon Oh</u>, In Lee\*, and Jung Joo Rhiu, "Non-linear static and dynamic instability of complete spherical shells using mixed finite element formulation", <u>INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS (IF = 3.336)</u>, Vol. 38, Issue 6, Page 923-934, September 2003
- 228. In Lee\*, Jin-Ho Roh, and <u>II-Kwon Oh</u>, "AEROTHERMOELASTIC PHENOMENA OF AEROSPACE AND COMPOSITE STRUCTURES", <u>JOURNAL OF THERMAL STRESSES</u> (IF = 3.456), Vol. 26, Issue 6, Page 525-546, June 2003
- 229. <u>II-Kwon Oh</u>, Won-Ho Shin, and In Lee\*, "Aerothermoelastic Analysis of Cylindrical Piezolaminated Shells Based on Multi-field Layerwise Theory", <u>Composites Research</u> (IF = 0.06), Vol. 15, Issue 3, Page 52-61, June 1, 2002
- 230. In Lee\*, <u>II-Kwon Oh</u>, Won-Ho Shin, Ki-Dae Cho, and Kyo-Nam Koo, "Dynamic Characteristics of Cylindrical Composite Panels with Co-cured and Constrained Viscoelastic Layers", <u>JSME INTERNATIONAL JOURNAL SERIES C-MECHANICAL SYSTEMS MACHINE ELEMENTS AND MANUFACTURING (IF = 0.386)</u>, Vol. 45, Issue 1, Page 16-25, March 2002
- 231. <u>II-Kwon Oh</u>, Won-Ho Shin, and In Lee\*, "Thermal post-buckling behavior of patched laminated panels under uniform and non-uniform temperature distributions", <u>Journal of the Korean Society for Aeronautical and Space Sciences (IF = 0.09)</u>, Vol. 30, Issue 1, Page 36-43, February 28, 2002
- 232. Jung Jin Lee\*, <u>II-Kwon Oh</u>, In Lee, and Chan Hong Yeom, "Thermal post-buckling behavior of patched laminated panels under uniform and non-uniform temperature distributions", <u>COMPOSITE STRUCTURES</u> (IF = 6.603), Vol. 55, Issue 2, Page 137-145, February 2002
- 233. Won-Ho Shin, <u>II-Kwon Oh</u>, Jae-Hung Han, Se-Hee Oh, In Lee\*, Chun-Gon Kim, and Jong-Heung Park, "Free Vibration and Forced Sinusoidal Vibration Analysis for Satellite Antenna Structures", <u>Composites Research</u> (IF = 0.06), Vol. 14, Issue 5, Page 20-25, October 1, 2001
- 234. <u>II-Kwon Oh</u>, In Lee\*, and Dong-Min Lee, "NON-LINEAR TRANSIENT RESPONSE OF FLUTTERING STIFFENED COMPOSITE PLATES SUBJECT TO THERMAL LOAD", **JOURNAL OF SOUND AND VIBRATION (IF = 4.761)**, Vol. 245, Issue 4, Page 715-736, August 23, 2001
- 235. Se-Hee Oh, Jae-Heung Han, <u>II-Kwon Oh</u>, Won-Ho Shin, Chun-Gon Kim\*, In Lee, and Jong-Heung Park, "Modal Analysis and Failure Safety Estimation for the Satellite Antenna System Composed of Sandwich Structure with Laminated Face Sheet", <u>Composites Research</u> (IF = 0.06), Vol. 14, Issue 4, Page 8-14, August 1, 2001
- 236. <u>II-Kwon Oh</u>, Jae-Hung Han, and In Lee, "Thermopiezoelastic Snapping of Piezolaminated Plates Using Layerwise Nonlinear Finite Elements", AIAA JOURNAL (IF = 2.624), Vol. 39, Issue 6, Page 1188-1197, June 2001

- 237. <u>II-Kwon Oh</u>, and In Lee\*, "Thermal snapping and vibration characteristics of cylindrical composite panels using layerwise theory", **COMPOSITE STRUCTURES** (IF = 6.603), Vol. 51, Issue 1, Page 49-61, January 2001
- 238. <u>II-Kwon Oh</u>, Jae-Hung Han, and In Lee, "POSTBUCKLING AND VIBRATION CHARACTERISTICS OF PIEZOLAMINATED COMPOSITE PLATE SUBJECT TO THERMO-PIEZOELECTRIC LOADS", JOURNAL OF SOUND AND VIBRATION (IF = 4.761), Vol. 233, Issue 1, Page 19-40, May 25, 2000
- 239. <u>II-Kwon Oh</u>, and In Lee, "Postbuckling and Vibration Analysis of Cylindrical Composite Panel subject to Thermal Loads", <u>Journal of the Korea Institute of Military Science and Technology</u> (IF = 0.29), Vol. 2, Issue 2, Page 148-156, December 1999
- 240. In Lee, Dong-Min Lee, and <u>II-Kwon Oh</u>, "Supersonic Flutter Analysis of Stiffened Laminated Plates Subject to Thermal Load", <u>JOURNAL OF SOUND AND VIBRATION</u> (IF = 4.761), Vol. 224, Issue 1, Page 49-67, July 1, 1999
- 241. <u>II-Kwon Oh</u>, Dong-Min Lee, and In Lee, "Aerothermoelastic Analysis of Laminated Composite Plate in Sypersonic Region", <u>Composites Research</u> (IF = 0.06), Vol. 10, Issue 3, Page 88-97, September 1997

- Yang Yang, Wonhee Ji, Jaewoo Roh, II-Kwon Oh, "Harnessing Elastic Instability in Soft Actuators: A High-Performance Bistable Composite Design", The 9th Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS-2024), Shangri-La Hotel, Ningbo, China, 30<sup>th</sup> November 2024
- Manmatha Mahato, Il-Kwon Oh, "Multimodal Soft Actuator Enabling Biomimetic Motions", International Workshop on Bionic Engineering 2024 & International Symposium on Nature-Inspired Technology 2024 (IWBE 2024 & ISNIT 2024), Sydney, Australia, 13<sup>th</sup> November 2024
- 3. Manmatha Mahato, Il-Kwon Oh, "Structural Carbon Materials for Electrochemical Soft Actuators", The 2nd International Electronic Conference on Actuator Technology, Online, 5<sup>th</sup> November 2024
- 4. Manmatha Mahato, Il-Kwon Oh, "Soft Robot with Dual Electric and Magnetic Actuation using Metal-Organic Framework", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 29<sup>th</sup> October 2024
- 5. Van Hiep Nguyen, Il-kwon Oh, "Fast-responsive and Super-durable Ionic Actuators for Soft Robotics", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 29<sup>th</sup> October 2024
- 6. Mousumi Garai, Van Hiep Nguyen, Il-Kwon Oh, "Electronically Conjugated Multifunctional Frameworks for Enhanced Performance and Longevity of Electro-Ionic Soft Actuators", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 29<sup>th</sup> October 2024
- 7. Ashhad Kamal Taseer, Manmatha Mahato, Il-kwon Oh, "Enhanced Dual Active Soft Actuator Based on Cobalt MOF-Derived Porous Multi-Functional Material", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 8. Hyunjoon Yoo, Ji-Seok Kim, Il-Kwon Oh, "Preventing Performance Degradation from Percolation Threshold in Triboelectric Nanogenerators with Charge Trapping Polymers", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 9. Woong Oh, Hyunjoon Yoo, Jawon Ha, Il-Kwon Oh, "Development of Thick-Film Cathode for the Manufacture of Micro-Batteries Using Semiconductor Processes", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 10. Tae-Eun Song, Il-kwon Oh, "Innovative Fabrication of High-Precision, High-Curvature Patterns via Air-Bubble Induction", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 11. Syed Sheraz Ali, Il-Kwon Oh, "Sustainable Nb-Based MXene Electrodes for Soft Robotics and Energy Applications via Molten Salt Synthesis", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 12. Daniel Saatchi, Saewoong Oh, Ji-Seok Kim, Hyunjoon Yoo, Mannan Khan, Ji-Seok Kim, Bernd Wicklein, Manmatha Mahato, Myung-Joon Lee, Tushar Prashant Pandit, Il-Kwon Oh, "A Programmable Soft Acoustic Metamaterial Inside Meta-Foams for Smart Homes", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024

- 13. Mannan Khan, Saewoong Oh, Wonhee Ji, Yang Yang, Il-Kwon Oh, "A Smart Haptic Footwear with Independently Controlled Active Stripes based on Orthogonal Auxetic-Architecture using SMA", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 14. Wonhee Ji, Saewoong Oh, Mannan Khan, Il-kwon Oh, "SMA Knot-Architectured Actuator of Zero Poisson's Ratio Meta-Structure for Haptic Feedback", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 15. Yang Yang, Il-kwon Oh, "Harnessing Bistability in Shape Memory Alloys: A Composite Framework for Environmentally Responsive Logic Devices", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 16. Ji-Seok Kim, Il-Kwon Oh, "Enhancing Wearable Device Functionality through Mechanical Motion Energy", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 17. Jawon Ha, Woong Oh, Manmatha Mahato, Tushar Pandit, Il-Kwon Oh, "Binder Free Lithium Sulfur Electrode Enabled by TiO2 nanowire Directly Grown on the Carbon cloth", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 18. Myung-Joon Lee, Il-Kwon Oh, "Robust Wave Propagation on Zigzag-type and Armchair-type Domain in Valley Phononic Crystals", The 7th International Conference on Active Materials and Soft Mechatronics (AMSM 2024), Songdo ConvensiA, Incheon, Korea, 28<sup>th</sup> October 2024
- 19. Hyunjoon Yoo, Woong Oh, Chi Won Ahn, Il-Kwon Oh, "Sputtering Deposition of Lipon Solid Electrolyte on Slurry-Cast Composite Cathode", ECS PRIME 2024, Honolulu Hawaii, United States, 7<sup>th</sup> October 2024
- 20. Manmatha Mahato, Il-Kwon Oh, "Engineering Carbon Materials for High-Performance Electro-Ionic Artificial Muscles", The 7th International Conference on Mechanical Engineering and Applied Composite Materials, Online, 25<sup>th</sup> September 2024
- 21. Manmatha Mahato, Il-Kwon Oh, "Developing Carbon Materials for Energy Storage Solutions", International Conference on Materials Science, Engineering & Technology, Online, 11<sup>th</sup> September 2024
- 22. Taseer Ashhad Kamal, Saewoong Oh, Manmatha Mahato, Il-Kwon Oh, "A Biomimetic Dual Mode Soft Robot Based On High-Performance Functional Co-MOF Derivative", The 11th Asian Conference on Multibody Dynamics 2024, Suwon Convention Center, Korea, 26<sup>th</sup> August 2024
- 23. Wonhee Ji, Saewoong Oh, Mannan Khan, Il-kwon Oh, "Zero Poisson's ratio Meta-structure Fabric Actuator with Shape Memory Fiber", The 11th Asian Conference on Multibody Dynamics 2024, Suwon Convention Center, Korea, 26<sup>th</sup> August 2024
- 24. Mannan Khan, Saewoong Oh, Wonhee Ji, Syed Sheraz Ali, Il-kwon Oh, Il-Kwon Oh, "An Independently Controlled Ortho-directional Active Fabric based on knotted Shape Memory Alloys (SMA) for Wearable Haptics", The 11th Asian Conference on Multibody Dynamics 2024, Suwon Convention Center, Korea, 26<sup>th</sup> August 2024
- 25. Ji-Seok Kim and Il-Kwon Oh, "Hybrid Biomechanical Energy Harvesting for Wearable Microgrids", 2024 MRS Spring Meeting & Exhibit, Seattle, Washington, United States, 24<sup>th</sup> April 2024
- 26. Hyunjoon Yoo, Manmatha Mahato and Il-Kwon Oh, "Tailoring material properties for user-friendly self-powered sensors based on triboelectric nanogenerators", SPIE Smart Structures

- + Nondestructive Evaluation 2024, Long Beach, California, United States, 27th March 2024
- 27. Manmatha Mahato, and Il-Kwon Oh, "Advancements in functional carbon materials for enhanced robotic interactions: a contemporary overview", SPIE Smart Structures + Nondestructive Evaluation 2024, Long Beach, California, United States, 26<sup>th</sup> March 2024
- 28. Saewoong Oh, and Il-Kwon Oh, "Auxetic-architectured SMA-based wearable haptics", SPIE Smart Structures + Nondestructive Evaluation 2024, Long Beach, California, United States, 25<sup>th</sup> March 2024

- 29. Manmatha Mahato, Hyunjoon Yoo, Ji-Seok Kim and Il-Kwon Oh, "Autonomous Energy Harvesting System with Self-Cleaning Capabilities for Extreme Weather Conditions: A Study of Smart Roof Technology", The 4th International Conference on Mechanoluminescence and Novel Structural Health Diagnosis (ML-4), Kyungpook National University, Daegu, Korea, 14<sup>th</sup> December 2023
- 30. Mousumi Garai, Manmatha Mahato, and Il-Kwon Oh, "ARTIFICAL MUSCLES BASED on METAL ORAGANIC FRAMEWORKS-MXENE NANOARCHITECTURE for FAST RESPONSIVE and LONG -TERM STABILITY", The 4th International Conference on Mechanoluminescence and Novel Structural Health Diagnosis (ML-4), Kyungpook National University, Daegu, Korea, 14<sup>th</sup> December 2023
- 31. Hyunjoon Yoo, Manmatha Mahato, and Il-Kwon Oh, "Design strategy of a tribo-material to utilize biomechanically generated vibrations for energy harvester", The 4th International Conference on Mechanoluminescence and Novel Structural Health Diagnosis (ML-4), Kyungpook National University, Daegu, Korea, 14th December 2023
- 32. Van Hiep Nguyen, Mousumi Garai, and Il-Kwon Oh, "A Novel Covalent Triazine Framework Electrode for Ionic Actuator", The 9th Annual Conference of Vietnamese Young Scientists ACVYS 2023, Online, 16<sup>th</sup> July 2023
- 33. Ji-Seok Kim, Hyunjoon Yoo, and Il-Kwon Oh, "Mechanical Regulation Systems for Boosting Energy Harvesting Performance", NANO KOREA 2023 Symposium, KINTEX, Incheon, Korea, 6<sup>th</sup> July 2023
- 34. Ponnan Sathiyanathan, Daniel Saatchi, Manmatha Mahato, and Il-Kwon Oh, "Chitosan Based Triboelectric Energy Harvesting System Comprised of Sulfur and Nitrogen Rich Covalent Organic Framework", NANO KOREA 2023 Symposium, KINTEX, Incheon, Korea, 6<sup>th</sup> July 2023
- 35. Daniel Saatchi, Myung-Joon Lee, Il-Kwon Oh, "Data Driven Geometric Design of Biomimetic Minimal Surface Metamaterial for Elastic to Acoustic Band Gaps", 6th International Conference on Phononic Crystals/Metamaterials/Metasurfaces, Phonon Transport, Topological Phononics (Phononics 2023), The University of Manchester, Manchester, England, June 12-16, 2023
- 36. Myung-Joon Lee, Il-Kwon Oh, "Tailoring Valley Displacement in Valley Topological Mechanical Honeycomb Lattice", 6th International Conference on Phononic Crystals/Metamaterials/Metasurfaces, Phonon Transport, Topological Phononics (Phononics 2023), The University of Manchester, Manchester, England, June 12-16, 2023
- 37. Bernd Wicklein, Il-Kwon Oh, "Nanocomposite materials for eco-friendly tribo- and piezoelectric nanogenerators", Materials Research Society 2023 Spring Meeting (MRS 2023 Spring), San Francisco, California, United States, April 10-14, 2023
- 38. Ashhad Kamal Taseer, Manmatha Mahato, Il-Kwon Oh, "Development of EAP actuator using novel cobalt MOF derivatives with optimally-tuned pore size and surface area to achieve

- high frequency robust actuation", SPIE Smart Structures + Nondestructive Evaluation 2023, Long Beach, California, United States, March 12-16, 2023
- 39. Mousumi Garai, Manmatha Mahato, Il-Kwon Oh, "MXene MOFs for electroactive artificial muscles", SPIE Smart Structures + Nondestructive Evaluation 2023, Long Beach, California, United States, March 12-16, 2023
- 40. Manmatha Mahato, Il-Kwon Oh, "Nano-engineering on carbon materials for electro-active application", SPIE Smart Structures + Nondestructive Evaluation 2023, Long Beach, California, United States, March 12-16, 2023
- 41. Ji-Seok Kim, Junseong Ahn, Jun-Ho Jeong, Inkyu Park, Il-Kwon Oh, "Buoy-Type Ocean Wave Energy Harvester for Powering Ocean Monitoring System", SPIE Smart Structures + Nondestructive Evaluation 2023, Long Beach, California, United States, March 12-16, 2023
- 42. Sae-Woong Oh, Il-Kwon Oh, "Knotted auxetic-SMA fabric for wearable haptic", SPIE Smart Structures + Nondestructive Evaluation 2023, Long Beach, California, United States, March 12-16, 2023

- 43. Van Hiep Nguyen, Il-Kwon Oh, "Guidelines for Developing Electrode and Polymer Electrolyte Nanomaterials with Desirable Properties for Ionic Actuators", The 8th Annual Conference of Vietnamese young scientists (ACVYS 2022), SEOULTECH, Seoul, Korea, December 11, 2022
- 44. Van Hiep Nguyen, Il-Kwon Oh, "Continuous Conducting Phases of Electrolyte Membranes Booming Performance of Ionic Artificial Muscles", The 8th Annual Conference of Vietnamese young scientists (ACVYS 2022), SEOULTECH, Seoul, Korea, December 11, 2022
- 45. Jun-Seong Ahn, Jiseok Kim, Jun-Ho Jeong, Inkyu Park, and <u>II-Kwon Oh</u>, "Triboelectric Energy Harvesting System Based on Recyclable Polymers and Electrodes", <u>Materials Research Society 2022 Fall Meeting (MRS 2022 Fall)</u>, Boston, Massachusetts, United States, November 27 December 2, 2022
- 46. Manmatha Mahato, Sanghee Nam, and <u>II-Kwon Oh</u>, "Multifunctional Covalent Triazine Framework for CO2 Uptake and Solid-state Flexible Supercapacitor", The 7th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2022), Ramada Jeju Hotel, Jeju, Korea, November 6-9, 2022
- 47. Mousumi Garai, Manmatha Mahato, and <u>II-Kwon Oh</u>, "Mxene anchored metal organic frameworks for electroactive artificial muscles", The 7th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2022), Ramada Jeju Hotel, Jeju, Korea, November 6-9, 2022
- 48. Syed Sheraz Ali, Pradeep Sambyal, Manmatha Mahato, Van Hiep Nguyen, and <u>II-Kwon Oh</u>, "Green molten salt preparation and characterization of cobalt doped MXene", The 11th International Conference on Green Composites (ICGC-11), Changwon Exhibition Convention Center, Changwon, Korea, November 2-4, 2022
- 49. Xiangrong Zeng, Pradeep Sambyal, Sanghee Nam, Hyunjoon Yoo, Van Hiep Nguyen, Syed Sheraz Ali, and <u>II-Kwon Oh</u>, "MXene Coating for Restraining Dendrite Growth in Anode-Free Batteries", The 11th International Conference on Green Composites (ICGC-11), Changwon Exhibition Convention Center, Changwon, Korea, November 2-4, 2022
- 50. Tae-Eun Song, <u>II-Kwon Oh</u>, and Hwan-Jin Jeon, "High-Curvature Lithography Through Bubble Expansion of Micro-Nano Sized Air-Pockets", <u>The 11th International Conference on Green Composites (ICGC-11)</u>, Changwon Exhibition Convention Center, Changwon, Korea, November 2-4, 2022

- 51. Myung-Joon Lee, and <u>II-Kwon Oh</u>, "Topologically Protected Separation of Elastic Wave Via Polarization", The 6th International Conference on Active Materials and Soft Mechatronics (AMSM 2022), Georgia Tech, Atlanta, United States, October 26-29, 2022
- 52. Saewoong Oh, and <u>II-Kwon Oh</u>, "Cooling-Accelerated Shape Memory Alloy Based Artificial Muscle for Bio-Inspired Robotics", The 6th International Conference on Active Materials and Soft Mechatronics (AMSM 2022), Georgia Tech, Atlanta, United States, October 26-29, 2022
- 53. Sanghee Nam, Saewoong Oh, Yury Gogotsi, and <u>II-Kwon Oh</u>, "Ti3C2Tx MXene based Bifunctional Electrocatalyst with High Antioxidation by Grafting Surface Terminators in Lithium-Oxygen Batteries", The 6th International Conference on Active Materials and Soft Mechatronics (AMSM 2022), Georgia Tech, Atlanta, United States, October 26-29, 2022
- 54. Ji-Seok Kim, Hyunjoon Yoo, and <u>II-Kwon Oh</u>, "The Development of Triboelectric Nanogenerators Based on Flow-Induced Impacting-Sliding Cylinder", The 6th International Conference on Active Materials and Soft Mechatronics (AMSM 2022), Georgia Tech, Atlanta, United States, October 26-29, 2022
- 55. Hyunjoon Yoo, Manmatha Mahato, Ji-Seok Kim, and <u>II-Kwon Oh</u>, "High performance stretchable triboelectric nanogenerator based on cobalt metal-organic frameworks/SEBS composites", The 6th International Conference on Active Materials and Soft Mechatronics (AMSM 2022), Georgia Tech, Atlanta, United States, October 26-29, 2022
- 56. Hyunjoon Yoo, Manmatha Mahato, Ji-seok Kim, and <u>II-Kwon Oh</u>, "Stretchable High-Loading MOFs Triboelectrification Layer for Triboelectric Nanogenerator", The 20th International Nanotech Symposium (NANO KOREA 2022), KINTEX, Ilsan, Korea, July 6-8, 2022
- 57. Ji-Seok Kim, and <u>II-Kwon Oh</u>, "Flow-Induced Impacting Cylinder-Based Hybrid Mode Triboelectric Nanogenerators for Ocean Energy Harvesting", The 20th International Nanotech Symposium (NANO KOREA 2022), KINTEX, Ilsan, Korea, July 6-8, 2022
- 58. Tae-Eun Song, Ji-Seok Kim, Chi Won Ahn, Yonghee Lee, and <u>II-Kwon Oh</u>, "Transparent and Flexible Triboelectric Nanogenerator Based on Parylene-MXene Films", The 20th International Nanotech Symposium (NANO KOREA 2022), KINTEX, Ilsan, Korea, July 6-8, 2022
- 59. Sanghee Nam, Yury Gogotsi, and <u>II-Kwon Oh</u>, "Bimetal Organic Framework embedded on Ti3C2Tx MXene Bifunctional Electrocatalyst for Lithium-Oxygen Batteries", The 20th International Nanotech Symposium (NANO KOREA 2022), KINTEX, Ilsan, Korea, July 6-8, 2022
- 60. Manmatha Mahato, and <u>II-Kwon Oh</u>, "Nanoporous ytterbium and nitrogen co-doping of mesoporous titania-carbon for self-cleanable green energy harvester", <u>The 20th International Nanotech Symposium (NANO KOREA 2022)</u>, KINTEX, Ilsan, Korea, July 6-8, 2022
- 61. Sanghee Nam, Yury Gogotsi, and <u>II-Kwon Oh</u>, "MXene Embedded Bimetallic Organic Framework Electrocatalyst in Lithium-Oxygen Batteries", <u>Materials Research Society 2022 Spring Meeting (MRS 2022 spring)</u>, Honolulu Hawaii, United States, May 8-13, 2022
- 62. Saewoong Oh, and <u>II-Kwon Oh</u>, "Nanowire-Forest Grown Shape Memory Alloy for Fast Actuation and its Application to Bio-inspired Robotics", <u>Materials Research Society 2022 Spring Meeting (MRS 2022 spring)</u>, Honolulu Hawaii, United States, May 8-13, 2022
- 63. Van Hiep Nguyen, Muhammad Taha Manzoor, and <u>II-Kwon Oh</u>, "Molybdenum disulfide/graphene nanocomposite as electrodes for ionic artificial muscles", <u>SPIE Smart Structures + Nondestructive Evaluation 2022 On Demand</u>, Online, United States, April 4-10, 2022
- 64. Saewoong Oh, and <u>II-Kwon Oh</u>, "Nanostructured Shape Memory Alloy based Artificial Muscle for Bio-inspired Robotics", <u>SPIE Smart Structures</u> + <u>Nondestructive Evaluation 2022 On Demand</u>, Online, United States, April 4-10, 2022

- 65. Manmatha Mahato, and <u>II-Kwon Oh</u>, "Electronically conjugated functional covalent organic frameworks for electroactive artificial muscles", SPIE Smart Structures + Nondestructive Evaluation 2022 On Demand, Online, United States, April 4-10, 2022
- 66. Kwan-Woo Han, Jiseok Kim, Jong-Nam Kim, Manmatha Mahato, Hyunjoon Yoo, and <u>II-Kwon Oh</u>, "Long-lasting and steady triboelectric energy harvesting system based on escapement mechanism", SPIE Smart Structures + Nondestructive Evaluation 2022 On Demand, Online, United States, April 4-10, 2022
- 67. Sanghee Nam, Yury Gogotsi, and <u>II-Kwon Oh</u>, "MXene and graphene oxide multilayer composite in flexible lithium-sulfur battery", <u>SPIE Smart Structures + Nondestructive Evaluation 2022 On Demand</u>, Online, United States, April 4-10, 2022

- 68. Sanghee Nam, Manmatha Mahato, and <u>II-Kwon Oh</u>, "Mutually Exclusive MXene and Graphene Oxide Multilayer Composites in Lithium-Sulfur Battery", <u>Materials Research Society 2021 Fall Meeting (MRS 2021 Fall)</u>, (Hybrid) Boston, Massachusetts, United States, November 29 December 2, 2021
- 69. Manmatha Mahato, and <u>II-Kwon Oh</u>, "Functional nano-structural covalent triazine frameworks for electroactive application", <u>International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP 2021)</u>, (Hybrid) PDEU, Gandhinagar, India, November 19-21, 2021
- 70. [Plenary Lecture] <u>II-Kwon Oh</u>, "Ionic Soft Actuators based on Functional Nanomaterials", The 5th International Conference on Active Materials and Soft Mechatronics (AMSM 2021), Online, Japan, November 10-12, 2021
- 71. Manmatha Mahato, and <u>II-Kwon Oh</u>, "Nano-Structural Multifunctional Carbon Materials for Electroionic Actuators", The 6th International Conference on Advanced Electromaterials (ICAE 2021), (Hybrid) Ramada Plaza Jeju Hotel, Jeju, Korea, November 9-12, 2021
- 72. Daniel Saatchi, and <u>II-Kwon Oh</u>, "Implementation of Triply Poly Minimal Surfaces in Design of Phononic Crystals and Acoustic Metamaterials", <u>International Mechanical Engineering Congress & Exposition (IMECE 2021)</u>, Online, United States, November 1-5, 2021
- 73. [Plenary Lecture] II-Kwon Oh, "Recent Progress on Ionic Soft Actuators based on Nanomaterials", Online international conference on Electromechanically Active Polymer transducers & artificial muscles (EuroEAP 2021), Online, Sweden, June 1-3, 2021
- 74. Ji-Seok Kim, Jung-Hwan Oh, and <u>II-Kwon Oh</u>, "2D Wrinkled Graphene Oxide-Wrapped 3D Auxetic foam for Sound Wave and Shock Energy Multi-Dissipation", Symposium on the Acoustics of Poro-Elastic Materials (SAPEM 2020), Online, United States, March 29 April 2, 2021
- 75. Sanghee Nam, Saewoong Oh, and <u>II-Kwon Oh</u>, "Vanadium carbide nanowires cathode with excellent cycle stability for lithium-ion batteries", SPIE Smart Structures + Nondestructive Evaluation 2021, Online, United States, March 22-27, 2021
- 76. Van Hiep Nguyen, and <u>II-Kwon Oh</u>, "Block copolymer electrolyte for ionic electroactive artificial muscles", SPIE Smart Structures + Nondestructive Evaluation 2021, Online, United States, March 22-27, 2021
- 77. Manmatha Mahato, Rassoul Tabassian, and <u>II-Kwon Oh</u>, "Electroactive artificial muscles: a constructive approach towards real-field soft robotics", <u>SPIE Smart Structures + Nondestructive Evaluation 2021</u>, Online, United States, March 22-27, 2021

- 78. Rassoul Tabassian, Manmatha Mahato, and <u>II-Kwon Oh</u>, "An advanced measurement technique for tracing ions' movement through electroactive polymers", <u>SPIE Smart Structures + Nondestructive Evaluation 2021</u>, Online, United States, March 22-27, 2021
- 79. Saewoong Oh, and <u>II-Kwon Oh</u>, "Rollable and double-foldable lithium battery based on solidstate polymer electrolyte", <u>SPIE Smart Structures + Nondestructive Evaluation 2021</u>, Online, United States, March 22-27, 2021

- 80. Saewoong Oh, and <u>II-Kwon Oh</u>, "Intertwined Porous Nanosponge Reinforced Solid-state Composite Electrolyte for Multifunctional Lithium Batteries", The <u>STEMM Smart NanoMaterials (SNAIA 2020)</u>, Online, France, December 8-11, 2020
- 81. Sanghee Nam, Saewoong Oh, and <u>II-Kwon Oh</u>, "Facile Hydrothermally Grown Vanadium Carbide Nanowires Cathode Materials for Lithium-Ion Batteries", The 6th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2020), Ramada Plaza Jeju Hotel, Jeju, Korea, November 1-4, 2020
- 82. Manmatha Mahato, and <u>II-Kwon Oh</u>, "Functional Porous Organic Materials for Energy Efficient Soft Touch Artificial Muscles", The 6th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2020), Ramada Plaza Jeju Hotel, Jeju, Korea, November 1-4, 2020
- 83. Jongnam Kim, Araz Rajabi Abhari, Manmatha Mahato, and <u>II-Kwon Oh</u>, "Skin Attachable Motion Sensor based on Triboelectric Nanogenerator with Chitosan-Diatom Composite Film", The 6th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2020), Ramada Plaza Jeju Hotel, Jeju, Korea, November 1-4, 2020
- 84. Saewoong Oh, Sanghee Nam, and <u>II-Kwon Oh</u>, "High-strength Intertwined Nanosponge Solid-state Composite Polymer Electrolyte for Multifunctional Lithium-ion Battery", The 6th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2020), Ramada Plaza Jeju Hotel, Jeju, Korea, November 1-4, 2020
- 85. Araz Rajabi Abhari, and <u>II-Kwon Oh</u>, "Diatom Frustule, Fascinating Ocean Biomaterial for Highly Efficient Bio-Triboelectric Nanogenerators", The 6th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2020), Ramada Plaza Jeju Hotel, Jeju, Korea, November 1-4, 2020

- 86. Hyeonseong Kim, Qitao Zhou, Daegyoum Kim, and <u>II-Kwon Oh</u>, "Triboelectric nanogenerator based on flow-induced vibration", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 87. Sanghee Nam, <u>II-Kwon Oh</u>, and Saewoong Oh, "Development of Functionalized Titanium Carbide and Vanadium Pentoxide Nanowires-CNT for Lithium-Ion Batteries", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 88. Jisu Ha, <u>II-Kwon Oh</u>, Jinyoung Jung, and Jiseok Kim, "Elastic Band Gap in Minimal Surface based Lattice Structures", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019

- 89. Rajabi-Abhari Araz, and <u>II-Kwon Oh</u>, "Cellulose Nanofibril-based Triboelectric Nanogenerator", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 90. Pitchai Thangasamy, and <u>II-Kwon Oh</u>, "Simultaneous exfoliation of WS2 nanosheets and decoration of interlayer expanded MoS2 nanostructures for electrochemical hydrogen evolution reaction", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 91. Jongnam Kim, <u>II-Kwon Oh</u>, Rajabi-Abhari Araz, and Kwanwoo Han, "Chitosan-Silica Composite film for Wearable Energy Harvesting", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 92. Saewoong Oh, <u>II-Kwon Oh</u>, Jimyeung Son, and Sanghee Nam, "Directly Grown Nanowires on Carbon Fabric for Flexible Lithium-ion Batteries", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 93. Jiseok Kim, Junghwan Oh, and <u>II-Kwon Oh</u>, "Development of Shock Absorbing Materials based on Auxetics", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 94. Rassoul Tabassian, and <u>II-Kwon Oh</u>, "Ionic polymer composite actuator based on a highly-conductive and flexible graphene mesh electrode", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 95. Rassoul Tabassian, <u>II-Kwon Oh</u>, and Won-Jun Hwang, "Measurement of an Ionic Induced Potential Inside the Polymer Membrane of Soft Ionic Actuators", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 96. Mahato Manmatha, <u>II-Kwon Oh</u>, and Rassoul Tabassian, "Conductive Electron Rich Metal Free Porous Organic Frameworks for High Performance Ionic Soft Actuators", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 97. Seung-Jin Han, and <u>II-Kwon Oh</u>, "Numerical Demonstration of Topologically Protected Elastic Waveguide in Hierarchical Hexagonal Lattices", The 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019), Sheraton Grand Incheon Hotel, Incheon, Korea, October 16-19, 2019
- 98. Zhou Qitao, <u>II-Kwon Oh</u>, and Jongnam Kim, "Boosting the Triboelectric Nanogenerator Performance with a Hierarchically Nanostructured Electrode", The 7th International Conference on Smart Materials and Nanotechnology in Engineering (SMN 2019), Shangri-La Hotel, Harbin, China, September 20-23, 2019
- 99. Van Hiep Nguyen, <u>II-Kwon Oh</u>, Won-Jun Hwang, Jaehwan Kim, Rassoul Tabassian, Moumita Kotal, Kiwoo Jun, Jung-Hwan Oh, Jimyeong Son, Muhammad Taha Manzoor, and Kwang Kim, "Design and Synthesis of PS-b-PSS Block Copolymer Electrolyte for Electroactive Artificial Muscles", <u>Biomimetics</u>, <u>Artificial Muscles & Nano-Bio</u> (BAMN 2019), Hilton Garden, Bangor Maine, United States, September 8-11, 2019

- 100. [Plenary Lecture] <u>II-Kwon Oh</u>, "Recent Progress on Ionic Soft Actuators and Their Future Applications", Biomimetics, Artificial Muscles & Nano-Bio (BAMN 2019), Hilton Garden, Bangor Maine, United States, September 8-11, 2019
- 101. Van Hiep Nguyen, Won-Jun Hwang, Jaehwan Kim, Rassoul Tabassian, Moumita Kotal, Jung-Hwan Oh, Jimyeong Son, Muhammad Taha Manzoor, Kwang Kim, and <u>Il-Kwon Oh</u>, "Molybdenum Disulfide Grown on Graphene as Electrodes for Ionic Artificial Muscles", <u>Biomimetics</u>, <u>Artificial Muscles & Nano-Bio (BAMN 2019)</u>, Hilton Garden, Bangor Maine, United States, September 8-11, 2019
- 102. Jongnam Kim, and <u>II-Kwon Oh</u>, "Feedforward control with ratedependent ysteresis compensator for piezoelectric micro stage", <u>SPIE Smart Structures</u> + <u>Nondestructive Evaluation 2019</u>, Denver, Colorado, United States, March 3-7, 2019
- 103. Saewoong Oh, and <u>II-Kwon Oh</u>, "Structural supercapacitor based on bicontinuous solid electrolyte with conductive nanowire-carbon fiber electrodes", <u>SPIE Smart Structures + Nondestructive Evaluation 2019</u>, Denver, Colorado, United States, March 3-7, 2019
- 104. [Invited Talk] Junghwan Oh, Ji-Seok Kim, and <u>II-Kwon Oh</u>, "Graphene Oxide-based Sound Asorber", SPIE Smart Structures + Nondestructive Evaluation 2019, Denver, Colorado, United States, March 3-7, 2019

- 105. Kiwoo Jun, Jongnam Kim, and <u>II-Kwon Oh</u>, "Study for Acoustic Transmission Loss of Tunable Metasurface based on Dielectric Elastomer Actuators", <u>International Conference on Acoustics</u>, <u>Vibration and Noise Control (CAVNC 2018)</u>, <u>International Asia-Pacific Convention Center Sanya</u>, Sanya, China, December 1-3, 2018
- 106. Muhammad Taha Manzoor, and <u>II-Kwon Oh</u>, "Graphene Based Two-Dimensional Hybrid Additives for Magnetorheological Fluids", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 107. Jaehwan Kim, Sandipan Roy, Moumita Kotal, Kwang Jin Kim, and <u>II-Kwon Oh</u>, "Biomimetic Soft Polymer Actuator based on Polymeric Organic Framework-derived Porous Carbon Nanostructures", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 108. Yunhan Lee, Ki Woo Jun, <u>II-Kwon Oh</u>, and Haeshin Lee, "Carbon Sealant for Macroscopically Damaged Graphene, Derived from Thermal Annealing of Plant-inspired Adhesive", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 109. Junghwan Oh, Ji-Seok Kim, and <u>II-Kwon Oh</u>, "Graphene Cellular Microstructure for Energy Absorbing Materials", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 110. Saewoong Oh, Seok-Hu Bae, Jimyeung Son, and <u>II-Kwon Oh</u>, "Development of Structural Battery", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 111. Van-Tien Bui, and <u>II-Kwon Oh</u>, "Self-Reinforced PVDF-HFP Electrolyte Membrane with Nanoparticles Decoration and Lamellar Structural for Advanced Lithium Ion Battery", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 112. Sanghee Nam, Sima Umrao, and <u>II-Kwon Oh</u>, "Activated Carbon Woven Fabric Based MXene Negative Electrode and Vanadium Oxide Nanowire Positive Electrode for Structural Lithium

- Ion Battery", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 113. Hyun-Jun Kim, Kwan-Woo Han, Jae-Eun Kim, Jongnam Kim, Jeong-Young Park, and <u>II-Kwon Oh</u>, "Eco-Friendly Triboelectric Nanogenerator Improved by Surface Oxidation", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 114. Jongnam Kim, Hyeong Geon Kim, and <u>II-Kwon Oh</u>, "Feedforward Control depending on the Input Voltage Rate for Micro Stage with Piezo Actuators", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 115. Wang Fan, Li Qinchuan, and <u>II-Kwon Oh</u>, "Highly Bendable Ionic Soft Actuator Based on Carboxylated Bacterial Cellulose Membrane and Polypyrrole Electrode", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 116. Van Hiep Nguyen, Jaehwan Kim, Kwang-Jin Kim, and <u>II-Kwon Oh</u>, "Design and Synthesis of PS-b-PSS Block Copolymer Electrolytes for Electroactive Artificial Muscles", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 117. Sima Umrao, Jaehwan Kim, Rassoul Tabassian, and <u>II-Kwon Oh</u>, "PEDOT:PSS-Ti3C2Tx MXene Hybrid as an Antagonistically Functionalized Electrode for High-Performance Ionic Soft Actuator", The 3rd International Conference on Active Materials and Soft Mechatronics (AMSM 2018), KAIST, Daejeon, Korea, October 24-25, 2018
- 118. Hyeonggeon Kim, Jongnam Kim, and <u>II-Kwon Oh</u>, "Feedback Controller Integrated with Hysteresis Compensator of Piezoelectric Actuators for Micro Stage Positioning Control", The 29th International Conference on Adaptive Structures and Technologies (ICAST 2018), Konkuk University, Seoul, South Korea, September 30 October 4, 2018
- 119. Jaehwan Kim, and <u>II-Kwon Oh</u>, "Air-working Electro-Ionic Polymer Actuators based on Highly Porous and Capacitive Carbon Nanostructures", The 29th International Conference on Adaptive Structures and Technologies (ICAST 2018), Konkuk University, Seoul, South Korea, September 30 October 4, 2018
- 120. Junghwan Oh, and <u>II-Kwon Oh</u>, "Preparation of Pd-embedded Porous Graphene Nanostructures for CO Oxidation", The 29th International Conference on Adaptive Structures and Technologies (ICAST 2018), Konkuk University, Seoul, South Korea, September 30 October 4, 2018
- 121. [Invited Talk] <u>II-Kwon Oh</u>, "Morphological Control of Touch Surfaces Based on Soft Elastomer Actuators", The 18th International Meeting on Information Display (IMID 2018), BEXCO, Busan, Korea, August 28-31, 2018
- 122. Jongnam Kim, Jin Young Jung, and <u>II-Kwon Oh</u>, "Rate-dependent Hysteresis Modeling in Micro stage with Piezo Actuators", <u>The 14th International Conference on Motion and Vibration Control (MoViC 2018)</u>, Daejeon, Korea, August 5-8, 2018
- 123. [Keynote Lecture] <u>II-Kwon Oh</u>, "Ionic Soft Actuators Based on Nano-Carbons", The 4th International Symposium of Flexible and Stretchable Electronics (ISFSE 2018), HUST, Wuhan, China, June 28-30, 2018
- 124. Van Hiep Nguyen, and <u>II-Kwon Oh</u>, "Polystyrene-b-poly(1-hexyl-3-methylimidazolium 4-styrenesulfonate) Block copolymer for Ionic Electroactive Artificial Muscle", The 5th Annual Conference of Vietnamese young scientists (ACVYS 2018), Sejong University, Seoul, Korea,

- May 20, 2018
- 125. Kiwoo Jun, Jongnam Kim, and <u>II-Kwon Oh</u>, "surface morphology control of elastomeric actuator and their application", <u>SPIE Smart Structures + Nondestructive Evaluation 2018</u>, Colorado, United States, March 4-8, 2018
- 126. Jaehwan Kim, and <u>II-Kwon Oh</u>, "Bio-inspired High-Performance Artificial Muscles using 3D-networked Carbon Nanostructures", <u>SPIE Smart Structures + Nondestructive Evaluation 2018</u>, Colorado, United States, March 4-8, 2018
- 127. Jaehwan Kim, Seok-Hu Bae, Moumita Kotal, and <u>II-Kwon Oh</u>, "Electro-ionic Artificial Muscles based on Three-dimensional Graphene Nanostructures", 3rd International Conference on Composite Materials and Material Engineering (ICCMME 2018), Singapore, January 26-28, 2018
- 128. Jongnam Kim, Kiwoo Jun, and <u>II-Kwon Oh</u>, "Study for Acoustic characteristics change of Metasurface having patterned electrode based on Dielectric Elastomer Actuators", <u>International Conference on Acoustics</u>, <u>Vibration and Noise Control (CAVNC 2018)</u>, International Asia-Pacific Convention Center Sanya, Sanya, China, January 13-15, 2018

- 129. Jaehwan Kim, Seok-Hu Bae, Moumita Kotal, and <u>II-Kwon Oh</u>, "Graphene-CNT-Ni Nanostructures-based High Performance Ionic Artificial Muscles", <u>International Symposium on Green Manufacturing and Applications (ISGMA 2017)</u>, Gyeongju, Korea, June 27 July 1, 2017
- 130. Hyun-Jun Kim, Seong-Jun Kim, Jeong-Young Park, and <u>II-Kwon Oh</u>, "Triboelectric nanogenerator based on bacterial nanocellulose", <u>International Symposium on Green Manufacturing and Applications (ISGMA 2017)</u>, Gyeongju, Korea, June 27 July 1, 2017
- 131. Moumita Kotal, Hyunjun Kim, Sandipan Roy, and <u>II-Kwon Oh</u>, "Nitrogen and Sulfur Codoped Holey Graphene Aerogel For High Performance Compression-Tolerant All Solid-State Supercapacitors", <u>Trends In Nanotechnology</u> 2017 (TNT 2017), Dresden, Germany, June 5-9, 2017
- 132. Rassoul Tabassian, and <u>II-Kwon Oh</u>, "Realizing Electroactive Flow Switch by Using Functionally Antagonistic Graphene Coated Mesh", 4th World Congress and Expo on Nanotechnology and Materials Science, Barcelona, Spain, April 5-7, 2017
- 133. Si-Hwa Lee, Moumita Kotal, Jung-Hwan Oh, and <u>II-Kwon Oh</u>, "Nanohole-Structured, Iron Oxide-Decorated and N-doped Heteronanostructure as Lithium Ion Battery Anode", <u>Graphene 2017</u>, Barcelona, Spain, March 28-31, 2017

- 134. [Invited Talk] <u>II-Kwon Oh</u>, "Growth of Graphene-based 3D Nanostructures for Energy Storage and Electro-Mechanical Actuator", International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2016), Ramada Plaza Jeju Hotel, Jeju, Korea, November 6-9, 2016
- 135. Ji-Eun Kim, Jung-Hwan Oh, Momita Kortal, and <u>II-Kwon Oh</u>, "Pore-Aligned Graphene Aerogel for CDI Electrode", The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 136. Momita Kortal, Jae-Hwan Kim, and <u>II-Kwon Oh</u>, "Sulfur and Nitrogen Co-Doped Graphene/PEDOT:PSS Hybrid Electrode for Highly Bendable Ionic Polymer Actuators", The

- 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 137. Ki-Woo Jun, and <u>II-Kwon Oh</u>, "Wettability Control Using by Wrinkled Dielectric Elastomer Actuator", The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 138. Si-Hwa Lee, Moumita Kotal, and <u>II-Kwon Oh</u>, "Generation of Nanohole and Decoration of Iron Oxide on Gelatin Functionalized Graphene Aerogel for Lithium Ion Battery Anode", The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 139. Hyun-Jun Kim, Jae-Hwan Kim, Ki-Woo Jun, and <u>II-Kwon Oh</u>, "Triboelectric Generator Based on Silk Nanofiber", The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 140. Seok-Hu Bae, Ji-Eun Kim, and <u>II-Kwon Oh</u>, "3D Nano-architecture of Highly Efficient OER Catalysts", The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 141. Jae-Hwan Kim, and <u>II-Kwon Oh</u>, "3D Carbon Nanostructures-based Electroactive Artificial Muscles", The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 142. Soo-Yeun Kim, and <u>II-Kwon Oh</u>, "Fabrication of TiO2-Nb2O5 Composite Based Viologen Derivative Electrochromic Electrodes Using Low-temperature Coating Techniques", The 10th Asian-Australasian Conference on Composite Materials (ACCM-10), Busan, Korea, October 16-19, 2016
- 143. Jae-Hwan Kim, Moumita Kotal, and <u>II-Kwon Oh</u>, "High-Performance Ionic Polymer Actuators Based on Chemically Co-Doped Graphene Electrodes", 8th International Conference on Recent Progress in Graphene/2D Research (RPGR 2016), Sungkyunkwan University, Seoul, Korea, September 25-29, 2016
- 144. Si-Hwa Lee, Jung-Hwan Oh, Moumita Kotal, Palanichamy Sennu, Sung-Ho Park, Yun-Sung Lee, and <u>II-Kwon Oh</u>, "Nanohole-Structured, Iron Oxide-Doecration and Gelatine-FUcntionalized Graphene Aerogel for High Rate and High Capacity Li-Ion Anode", 5th International Seminar on Green Energy Conversion, University of Yamanashi, Nagano, Japan, August 31 September 2, 2016
- 145. [Keynote Lecture] <u>II-Kwon Oh</u>, "Graphene-based Soft Actuators and Devices", 5th International Seminar on Green Energy Conversion, University of Yamanashi, Nagano, Japan, August 31 September 2, 2016
- 146. Jung-Hwan Jung, Soon-Yong Yang, Seung-Bok Choi, and <u>II-Kwon Oh</u>, "Graphene-Iron Oxide Hybrid Nano-Structure for Enhancing Shear Stress of MR Fluid", 15th International Conference on Electrorheological Fluids and Magnetorheological Suspensions (ERMR 2016), Incheon, Korea, July 4-8, 2016
- 147. Jung-Hwan Oh, and <u>II-Kwon Oh</u>, "Nanohole-structured graphene and Pd-embedded porous hybrids for hydrogen storage and CO oxidation", <u>EMN Meeting on Mesoporous Materials 2016</u>, Prague, Czech Republic, June 13-17, 2016
- 148. Rassoul Tabassian, Jung-Hwan Oh, and <u>II-Kwon Oh</u>, "Intelligent actuation of water drop on graphene coated mesh", <u>SPIE Smart Structures + Nondestructive Evaluation 2016</u>, Las Vegas, United States, March 20-24, 2016
- 149. Jae-Hwan Kim, Moumita Kotal, and <u>II-Kwon Oh</u>, "Chemcially modified reduced graphene oxide and PEDOT:PSS composite electrodes based highly bendable ionic polymer actuator",

- SPIE Smart Structures + Nondestructive Evaluation 2016, Las Vegas, United States, March 20-24, 2016
- 150. Jun-Ho Choi, and <u>II-Kwon Oh</u>, "Butterfly-patterned dielectric elastomer actuator utilizing highly stretchable and robust silver nanowires network", <u>SPIE Smart Structures + Nondestructive Evaluation 2016</u>, Las Vegas, United States, March 20-24, 2016
- 151. Ki-Woo Jun, and <u>II-Kwon Oh</u>, "Enhanced directional actuation behavior of uni-axially rippled dielectric elastomer actuator", The 9th International Symposium on Nature-Inspired Technology (ISNIT 2016), Hotel ICC, Daejeon, Korea, January 13-15, 2016

- 152. Jung-Hwan Oh, Rajesh Kumar, and <u>II-Kwon Oh</u>, "Microwave-assisted 3D Porous Graphene for Its Multi-functionalities", The 17th International Conference on Composite Materials (ICCM 2015), London, United Kingdom, October 23-24, 2015
- 153. [Invited Talk] <u>II-Kwon Oh</u>, "Bio-Inspired Graphene Composites for Hydrophobic Surfaces, Energy Storage and Actuators", <u>Biomimetics</u>, <u>Articial Muscles & Nano-Bio (BAMN 2015)</u>, Canada, August 24-26, 2015
- 154. Ji-Hoon Jeong, Choong-Hee Cho, and <u>II-Kwon Oh</u>, "Two-dimensional acoustic cloak using axisymmetric cylindrical lattices", The 44th International Congress and Exposition on Noise Control Engineering (internoise 2015), San Francisco, United States, August 9-14, 2015
- 155. Si-Hwa Lee, <u>II-Kwon Oh</u>, and Ki-Woo Jun, "Wideband, Flexible and High Performance EMI Shielding Thin Film based on Graphene-Nanotube-Iron 3D Nanostructure", The 20th International Conference on Composite Materials (ICCM 20), Copenhagen, Denmark, July 19-24, 2015
- 156. Jin-Young Jung, Ba-Reum Kim, and <u>II-Kwon Oh</u>, "ACCURATE ESTIMATION OF OPERATIONAL FORCES BY USING MODIFIED TRANSFER PATH ANALYSIS CONSIDERING TRANSMISSIBILITY FUNCTIONS", The 22nd International Congress on Sound and Vibration (ICSV22), Florence, Italy, July 12-16, 2015
- 157. Jung-Hwan Oh, Jung-Hwan Jung, and <u>II-Kwon Oh</u>, "3D Networked Porous Graphene for Hydrogen Storage", International Conference on Computational & Experimental Engineering and Sciences (ICCES 2015), Reno, United States, July 10-24, 2015
- 158. Tae-Won Na, Jun-Ho Choi, and <u>II-Kwon Oh</u>, "Hierarchical compact piezoelectric tripod manipulator based on a reverse bridge type amplifier", <u>International Conference on Computational & Experimental Engineering and Sciences (ICCES 2015)</u>, Reno, United States, July 10-24, 2015
- 159. Seok-Hu Bae, and <u>II-Kwon Oh</u>, "Multifunctional structural energy storage system", The 4th International Conference on Multifunctional, Hybrid and Nanomaterials, Sitges, Spain, March 9-13, 2015
- 160. Si-Hwa Lee, and <u>II-Kwon Oh</u>, "Wideband, Thin, and Flexible EMI Shielding Film Based on Graphene-Nanotube-Iron Oxide Hetero Nanostructures and PEDOT:PSS", <u>SPIE Smart Structures + Nondestructive Evaluation 2015</u>, San Diego, Unites States, March 8-12, 2015
- 161. Tae-Won Na, Jun-Ho Choi, and <u>II-Kwon Oh</u>, "Hierarchical Compact Piezoelectric Tripod Manipulator", <u>SPIE Smart Structures + Nondestructive Evaluation 2015</u>, San Diego, Unites States, March 8-12, 2015

- 162. Hyun-Jun Kim, and <u>II-Kwon Oh</u>, "Conductive, Capacitive, Flexible and Soft Electrodes Based on 3D carbon nanostructures and Conducting Polymer", Asian Conference on Nanoscience & Nanotechnology (AsiaNano 2014), Jeju, Korea, October 26-29, 2014
- 163. Si-Hwa Lee, and <u>II-Kwon Oh</u>, "Wideband, Flexible, and High Performance EMI shielding Film Based on Graphene-Nanotube-Iron Nanostructure", Asian Conference on Nanoscience & Nanotechnology (AsiaNano 2014), Jeju, Korea, October 26-29, 2014
- 164. Gun-Tae Kim, and <u>II-Kwon Oh</u>, "Durable graphene coating on hydrophobic surfaces for drag reduction", Asian Conference on Nanoscience & Nanotechnology (AsiaNano 2014), Jeju, Korea, October 26-29, 2014
- 165. Ki-Woo Jun, and <u>II-Kwon Oh</u>, "Wrinkled Graphene-AgNWs Hybrid Electrode for Stretchable Devices", Asian Conference on Nanoscience & Nanotechnology (AsiaNano 2014), Jeju, Korea, October 26-29, 2014
- 166. Tae-Won Na, and <u>II-Kwon Oh</u>, "Hierarchical Compact Piezoelectric Tripod Manipulator Based on Ribbon-shaped Amplification Mechanisms", The 2nd International Conference and Exhibition on Mechanical & Aerospace Engineering (Mech Aero 2014), Philadelphia, United States, September 8-10, 2014
- 167. [Invited Talk] II-Kwon Oh, "Graphene-based 3D Carbon Nanostructures for Electro-Active Polymers", International Union of Materials Research Societies-The IUMRS International Conference in Asia (IUMRS-ICA 2014), Fukuoka University, Fukuoka, Japan, August 24-30, 2014
- 168. [Invited Talk] <u>II-Kwon Oh</u>, "Highly Sustainable Electroactive Artificial Muscles with Graphene Paper Electrodes", IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Besançon, France, July 8-11, 2014
- 169. Su-Ji Gim, Seung-Min Cho, Nikil Koratka, and <u>II-Kwon Oh</u>, "Durable hydrophobic graphene coating on hierarchically structured copper surface for water harvesting", Nano Korea 2014, Seoul, Korea, July 2-4, 2014
- 170. Tae-Won Na, D.-H. Kang, Jin-Young Jung, and <u>II-Kwon Oh</u>, "2D Rotational motion actuators based on single crystal PMN-PT patches", <u>International Conference on Computational Experimental Engineering and Sciences (ICCES 2014)</u>, Changwon Exhibition Convention Center, Changwon, Korea, June 12-17, 2014
- 171. Gun-Tae Kim†, Su-Ji Gim†, Seung-Min Cho, Nikhil Koratkar\*, and <u>II-Kwon Oh</u>\*, "Anti-corrosive properties of graphene coating on hierarchically structured copper surface: Experimental investigation", <u>International Conference on Computational & Experimental Engineering and Sciences (ICCES 2014)</u>, Changwon Exhibition Convention Center, Changwon, Korea, June 12-17, 2014
- 172. Jung-Hwan Jung, and <u>II-Kwon Oh</u>, "Damping Materials Based on Boron Nitride NanoOComposite", International Conference on Computational & Experimental Engineering and Sciences (ICCES 2014), Changwon Exhibition Convention Center, Changwon, Korea, June 12-17, 2014
- 173. S.-H. Lee, Ki-Woo Jun, and <u>II-Kwon Oh</u>, "Wideband Graphene-Nanotube Iron Nanostructure Filled PEDOT:PSS Film for EMI Shielding", <u>International Conference on Computational Experimental Engineering and Sciences (ICCES 2014)</u>, Changwon Exhibition Convention Center, Changwon, Korea, June 12-17, 2014
- 174. [Keynote Lecture] Jin-Han Jeon, Ravi Kumar Cheedarala, and <u>II-Kwon Oh</u>, "All-organic Ntda-SPI-IL actuator based on Π-Π Stacked 3D ionic network polymer", International Conference on Computational & Experimental Engineering and Sciences (ICCES 2014),

- Changwon Exhibition Convention Center, Changwon, Korea, June 12-17, 2014
- 175. [Invited Talk] <u>II-Kwon Oh</u>, "2D Graphene and BN Quantum Dots", The 7th World Congress on Particle Technology (WCPT7 2014), Beijing, China, May 19-22, 2014
- 176. [Invited Talk] <u>II-Kwon Oh</u>, "Defect Engineering of Graphene-based Three Dimensional Carbon Nanostructures for Energy Storage Applications", <u>Graphene 2014</u>, Toulouse, France, May 6-9, 2014
- 177. [Invited Talk] <u>II-Kwon Oh</u>, "Recent Progress on Graphene-based Artificial Muscles", SPIE Smart Structures + Nondestructive Evaluation 2014, San Diego, United States, March 9-13, 2014

- 178. [Invited Talk] <u>II-Kwon Oh</u>, "Three-Dimensional Carbon Nanostructures for Energy Storage Systems", International Conference on Small Science (ICSS 2013), Las Vegas, United States, December 15-18, 2013
- 179. [Keynote Lecture] <u>II-Kwon Oh</u>, "Graphene-based Nano-materials and Their Applications to Artificial Muscles", The 5th Asia Pacific Congress on Computational Mechanics & 4th International Symposium on Computational Mechanics (APCOM 2013 & ISCM 2013), Singapore, December 11-14, 2013
- 180. <u>II-Kwon Oh</u>, "Graphene-based artificial muscles", Training School on Ionic Artificial Muscles (TSIAM 2013), Spain, October 29-31, 2013
- 181. [Invited Talk] Doo-Hoo Lee, Byung-Jin Kwon, Choong-Hee Jo, Kwang-Chun Park, and Il-Kwon Oh, "Tunable Bandgap in Active Acoustic Metamaterials Controlled with Electric Shunt Circuits", The World Congress on Advances in Structural Engineering & Mechanics (ASEM 13), Jeju, Korea, September 8-11, 2013
- 182. Si-Hwa Lee, and <u>II-Kwon Oh</u>, "Bio-ispired Three Dimensional Carbon Nanostructures for High Performance Lithium Ion Battery", The 7th Congress on Biomimetics, Artificial Muscles and Nano-Bio (BAMN 2013), Jeju, Korea, August 26-30, 2013
- 183. Jae-Hwan Kim, Jin-Han Jeon, Hae-Sin Lee, Hyun-Eui Lim, and <u>II-Kwon Oh</u>, "Study on Water Floatable Artificial Muscles with Hydrophobic and Liquid-impermeable Garphene Paper Electrodes", The 7th Congress on Biomimetics, Artificial Muscles and Nano-Bio (BAMN 2013), Jeju, Korea, August 26-30, 2013
- 184. [Keynote Lecture] <u>II-Kwon Oh</u>, "Graphene-based artificial muscles", The 7th Congress on Biomimetics, Artificial Muscles and Nano-Bio (BAMN 2013), Jeju, Korea, August 26-30, 2013
- 185. Dae-Hyun Kang, Jin-Young Jung, and <u>II-Kwon Oh</u>, "Linear to rotation mechanism device with stacked piezo actuator", The 7th Congress on Biomimetics, Artificial Muscles and Nano-Bio (BAMN 2013), Jeju, Korea, August 26-30, 2013
- 186. Ravi-Kumar Cheedarala, and <u>II-Kwon Oh</u>, "High thermally stable NTDA-SO3H based sulfonated polymer metal composite based on Nafion/MWCNT and Nafion/TEOS nanocomposite", The 7th Congress on Biomimetics, Artificial Muscles and Nano-Bio (BAMN 2013), Jeju, Korea, August 26-30, 2013
- 187. Rajesh Kumar, and <u>II-Kwon Oh</u>, "Silver nanoparticles decorated reduced graphene oxide materials and its applications for supercapacitors", The 7th Congress on Biomimetics, Artificial Muscles and Nano-Bio (BAMN 2013), Jeju, Korea, August 26-30, 2013
- 188. [Invited Talk] <u>II-Kwon Oh</u>, "Graphene-based Electromechanically Active Polymers", The 3rd international conference on Electromechanically Active Polymer transducers & artificial

- muscles (EuroEAP 2013), Dübendorf, Switzerland, June 25-26, 2013
- 189. Choong-Hee Jo, and <u>II-Kwon Oh</u>, "Feasible Design of 2D Acoustic Cloaking Based on Impedance Matched Multilayered Structure", Asia Pacific Vibration Conference (APVC 2013), International Convention Center Jeju, Jeju, Korea, June 2-6, 2013
- 190. [Invited Talk] Byung-Jin Kwon, Choong-Hee Jo, Doo-Ho Lee, Kwang-Chun Park, and <u>II-Kwon Oh</u>, "Vibro-Acoustic Waveguide with Tunable Bandgap", Phononics 2013, Sharm El-Sheikh, Egypt, June 2-7, 2013
- 191. <u>II-Kwon Oh</u>, "Graphene-Based Carbon Nanostructures and Their Applications", International Conference on Computational & Experimental Engineering & Sciences (ICCES 13), Seattle, United States, May 24-28, 2013
- 192. Seok-Hu Bae, and <u>II-Kwon Oh</u>, "Microwave syntheses of graphene based 3D hybrid nanostructures and their applications to energy storage systems", <u>SPIE Smart Structures + Nondestructive Evaluation 2013</u>, San Diego, Unites States, March 11-14, 2013
- 193. Hyun-Jun Kim, Vadahanambi Sridhar, Jung-Hwan Jung, C.-G. Lee, SungJin Park, and II-Kwon Oh, "Microwave-Assisted Synthesis Of Graphene-Nanotube-Palladium Nanostructures and Their Electrochemical Characteristics", The 3rd International Conference on Multifunctional, Hybrid and Nanomaterials, Sorrento, Italy, March 3-7, 2013

- 194. Byung-Jin Kwon, Choong-Hee Jo, Kwang-Chun Park, and <u>II-Kwon Oh</u>, "WAVE PROPAGATION OF ACOUSTIC METAMATERIALS WITH TUNABLE HELMHOLTZ RESONATORS", The 2nd International Conference on Computational Design in Engineering (CODE 2012), Jeju, Korea, November 13-16, 2012
- 195. [Plenary Lecture] <u>II-Kwon Oh</u>, "Recent Progress on Graphene-based Artificial Muscles", The 5th International Conference on Electro Active Polymers: Materials and Devices (ICEP 2012), Banaras Hindu University, Varanasi, India, November 4-9, 2012
- 196. Ravi Kumar Cheedarala, Jin-Han Jeon, Doo-Kee Chang, and <u>II-Kwon Oh</u>, "Transparent and high thermally stable sulfonated polyimide membrane for electric stimuli-responsive bending actuator", The 5th International Conference on Electro Active Polymers: Materials and Devices (ICEP 2012), Banaras Hindu University, Varanasi, India, November 4-9, 2012
- 197. [Invited Talk] II-Kwon Oh, Jin-Han Jeon, Jung-Cheol Yoo, J.-H. Kim, and H. Lim, "Durable lonic Polymer-Graphene Composite Actuator with Graphene Bucky Paper Electrodes", IUMRS-International Conference on Electronic Materials (IUMRS-ICEM 2012), Yokohama, Japan, September 23-28, 2012
- 198. Jin-Han Jeon, Jung-Cheol Yoo, and <u>II-Kwon Oh</u>, "Electrochemical Actuator Based on Tunable Reduced Graphene Oxide Bucky Papers", <u>International Symposium on Green Manufacturing and Applications (ISGMA 2012)</u>, Jeju, Korea, August 27-29, 2012
- 199. Jung-Hwan Jung, and <u>II-Kwon Oh</u>, "Shape Memory Polyurethane with Graphene-iron Hybrid Nanoparticles for Helical Stents", The 4th International Conference on Modern Materials and Technologies (CIMTEC 2012), Montecatini Terme, Italy, June 10-14, 2012
- 200. Jin-Han Jeon, and <u>II-Kwon Oh</u>, "Transparent Ionic Polymer Actuators Based on SPI Membranes and Graphene Electrodes", The 4th International Conference on Modern Materials and Technologies (CIMTEC 2012), Montecatini Terme, Italy, June 10-14, 2012
- 201. Seok-In Sohn, Dae-Hwan Park, Yeon-Seung Lee, and <u>II-Kwon Oh</u>, "Hull Separation Optimization of Catamaran Unmanned Surface Vehicle Powered with Hydrogen Fuel Cell",

- International Conference on Marine and Naval Engineering (ICMNE 2012), Madrid, Spain, March 28-30, 2012
- 202. [Keynote Lecture] II-Kwon Oh, "Microwave graphene syntheses and graphene-based sensors/actuators", SPIE Smart Structures + Nondestructive Evaluation 2012, United States, March 11-15, 2012
- 203. Jin-Han Jeon, and <u>II-Kwon Oh</u>, "Artificial muscular electro-active polymer actuators based on transparent SPI membranes and graphene electrodes", <u>International Symposium on Nature-Inspired Technology</u> (ISNIT 2012), High1 Resort, Kangwon, Korea, January 9-11, 2012
- 204. Qunwei Tang, Jin-Han Jeon, and <u>II-Kwon Oh</u>, "Biomimetic PPy nanoflake array by secondary-template method for glucose biosensor", <u>International Symposium on Nature-Inspired Technology</u> (ISNIT 2012), High1 Resort, Kangwon, Korea, January 9-11, 2012
- 205. Akbar Jafari, Jin-Han Jeon, and <u>II-Kwon Oh</u>, "Three-pole electrospinning combined with blade-cage collector with channel electrodes for well-aligned nanofiberous membranes", <u>International Symposium on Nature-Inspired Technology (ISNIT 2012)</u>, High1 Resort, Kangwon, Korea, January 9-11, 2012
- 206. Junghwan Jung, and <u>II-Kwon Oh</u>, "Helical shape SMP stent with metal decorated graphene", International Symposium on Nature-Inspired Technology (ISNIT 2012), High1 Resort, Kangwon, Korea, January 9-11, 2012

- 207. [Invited Talk] Jae-Hong Jung, Tai-Hong Cheng, and II-Kwon Oh, "Synchronized switched electromagnetic damper for vibration control of flexible beams", 3rd International Conference on Smart Materials and Nanotechnology in Engineering, Shangri-La Hotel, Shenzhen, China, December 5-8, 2011
- 208. [Invited Talk] Jin-Han Jeon, Vadahanambi Sridhar, and II-Kwon Oh, "Microwave Graphene Syntheses and Graphene-based Artificial Muscles", Biomimetics, Articial Muscles & Nano-Bio (BAMN 2011), Cergy-Pontoise Paris, France, October 25-27, 2011
- 209. J.-X. Song, Jin-Han Jeon, and <u>II-Kwon Oh</u>, "FACILE SYNTHESIS OF SULFONATED POLYIMIDE WITH HIGHLY CONDUCTIVE SILVER ELECTRODE VIA DIRECT ION-EXCHANGE SELF-METALLIZATION FOR ELECTRO-ACTIVE ARTIFICIAL MUSCLE", The 18th International Conference on Composite Materials (ICCM 18), International Convention Center Jeju, Jeju, Korea, August 21-26, 2011
- 210. X. Liang, and <u>II-Kwon Oh</u>, "Study on the graphene-based actuator", Behavior and Mechanics of Multifunctional Materials and Composites 2011, San Diego, United States, March 7-9, 2011

- 211. Tai-Hong Cheng, J.-H. Jung, and <u>II-Kwon Oh</u>, "Electromagnetic material based semipassive switching shunt damper", The 3rd International Conference on Multi-Functional Materials and Structures (MFMS 2010), Jeonbuk Provincial Government, Jeonju, Korea, September 14-18, 2010
- 212. Song-Lin Li, Woo-Young Kim, Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "Dynamic Responses of Helical IPMC Actuator", The 3rd International Conference on Multi-Functional Materials and Structures (MFMS 2010), Jeonbuk Provincial Government, Jeonju, Korea, September 14-18, 2010

- 213. H.-L. Xing, Jin-Han Jeon, Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "Auto-disturbance-rejection Controller for Bending Response of IPMC Actuator in Underwater Application", The 3rd International Conference on Multi-Functional Materials and Structures (MFMS 2010), Jeonbuk Provincial Government, Jeonju, Korea, September 14-18, 2010
- 214. Xu. L, and <u>II-Kwon Oh</u>, "Electroactive Nano-composite Actuator based on Sulfonated Polyhedral Oligomeric Silsesquioxane (SPOSS) and Nafion", The 3rd International Conference on Multi-Functional Materials and Structures (MFMS 2010), Jeonbuk Provincial Government, Jeonju, Korea, September 14-18, 2010
- 215. Vadahanambi Sridhar, Jin-Han Jeon, and <u>II-Kwon Oh</u>, "Graphene-Nafion Nanocomposite Actuators", The 3rd International Conference on Multi-Functional Materials and Structures (MFMS 2010), Jeonbuk Provincial Government, Jeonju, Korea, September 14-18, 2010
- 216. Jin-Han Jeon, and <u>Il-Kwon Oh</u>, "Snap-through Dynamics of Curved IPMC Diaphragm for Biomedical Micro-Pump", The 3rd International Conference on Multi-Functional Materials and Structures (MFMS 2010), Jeonbuk Provincial Government, Jeonju, Korea, September 14-18, 2010
- 217. Jun Lu, Sang-Gyun Kim, Sun-Woo Lee, and <u>II-Kwon Oh</u>, "Durability studies shed light on the design of novel self-healing artificial muscles by employing ionic network polymers employing ionic network polymers", The 1st Symposium on Innovative Polymers for Controlled Delivery (SIPCD 2010), Garden Hotel, Suzhou, China, September 14-17, 2010
- 218. <u>II-Kwon Oh</u>, "GREEN SYNTHESIS OF GRAPHENE NANO-SHEETS", Recent Advances in Graphene and Related Materials, Singapore, August 1-6, 2010
- 219. Woo-Young Kim, Song-Lin Li, and <u>II-Kwon Oh</u>, "Shape memory polyurethane with ferromagnetic nanoparticles for a helical stent", The 5th International Conference on Technological Advanced of ThinFilms & Surface Coating (ThinFilms 2010), Harbin, China, July 11-13, 2010
- 220. M. Rajagopalan, and <u>II-Kwon Oh</u>, "Novel Polymeric Actuator Based on Sulfonated Polyetherimide: Preparation, Characterization and Actuator Performance", The 12th International Conference on New Actuators & 6th International Exhibition on Smart Actuators and Drive Systems (Actuator 2010), Bremen, Gemany, June 14-16, 2010
- 221. Jung-Cheol Yoo, Chang-Doo Kee, and <u>II-Kwon Oh</u>, "Development of Ultrasonic-optical Fiber Hydrogen Sensor", The 12th International Conference on Modern Materials and Technologies (CIMTEC 2010), Montecatini terme, Italy, June 6-11, 2010
- 222. Jung-Cheol Yoo, In-Chul Park, Chang-Doo Kee, and <u>II-Kwon Oh</u>, "Development of ultrasonic Fiber-PZT Sensors for Hydrogen Gas Detection", 1st Intenational Scietific & Engineering Forum, Davao city, Philippines, April 16-17, 2010

- 223. [Invited Talk] <u>II-Kwon Oh</u>, "Electroactive Novel IPMC Actuators and Their Applications", Biomimetics, Articial Muscles & Nano-Bio (BAMN 2009), Osaka, Japan, November 25-27, 2009
- 224. Liang Xu, Xuan-Lun Wang, and <u>II-Kwon Oh</u>, "Sulfonated Polyhedral Oligomeric Silsesquioxane (SPOSS) and Nafion Hybrid Membranes for High-Performance Nano-Composite Actuator", <u>International Conference on Nano Science and Nano Techonlogy</u> (ICNST 2009), Mokpo, Korea, November 5-6, 2009
- 225. Jin-Han Jeon, S.-P. Kang, and <u>II-Kwon Oh</u>, "Snap-through Dynamics of IPMC Actuators; From cantilever to diaphragm member", The 12th International Symposium on Technology for Next Generation Vehicle & Machine, Gwang-Ju, Korea, October 30-31, 2009

- 226. Tai-Hong Cheng, Seung-Hyun Lim, Chang-Doo Kee, and <u>II-Kwon Oh</u>, "Development of Fiber-PZT Array Sensor System", 2nd International Conference on Multi-functional Materials and Structures (MFMS 2009), Qingdao, China, October 9-12, 2009
- 227. Jung-Hwan Jung, Vadahanambi Sridhar, and <u>II-Kwon Oh</u>, "Biomimetic Nano-composite Actuator Based on Fullerene-Reinforced Nafion Ionic Polymer", The 17th International Conference on Composite Materials (ICCM-17), Edinburgh, United Kingdom, July 27-31, 2009
- 228. Jun Lu, and <u>II-Kwon Oh</u>, "An Ionic Polymer-Metal Composite Actuator Based on PSMI-Incorporated PVDF with Chemical Stability and Performance Durability", The 2nd International Conference on Smart Materials and Nanotechnology in Engineering, Wei-Hai, China, July 8-11, 2009
- 229. J.-H. Jung, Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "Fullerene reinforced ionic polymer transducer", The 2nd International Conference on Smart Materials and Nanotechnology in Engineering, Wei-Hai, China, July 8-11, 2009
- 230. N.-T. Nguyen, Young-Soo Yang, and <u>II-Kwon Oh</u>, "Position control of ionic polymer metal composite actuator based on neuro-fuzzy system", The 2nd International Conference on Smart Materials and Nanotechnology in Engineering, Wei-Hai, China, July 8-11, 2009
- 231. Jin-Han Jeon, Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "Snap-through Dynamics of Bi-stable IPMC Actuator Considering Beam Configuration", The 2nd International Conference on Smart Materials and Nanotechnology in Engineering, Wei-Hai, China, July 8-11, 2009
- 232. Xuan-Lun Wang, Tai-Hong Cheng, Liang Xu, and <u>II-Kwon Oh</u>, "Ionic polymer metal composite actuators employing irradiation-crosslinked sulfonated poly(styrene-ranethylene)as ion-exchange membranes", The 2nd International Conference on Smart Materials and Nanotechnology in Engineering, Wei-Hai, China, July 8-11, 2009
- 233. Tai-Hong Cheng, Xuan-Lun Wang, and <u>II-Kwon Oh</u>, "Electromagnetic multi-mode shunt damper for flexible beams based on current flowing circuit", The 2nd International Conference on Smart Materials and Nanotechnology in Engineering, Wei-Hai, China, July 8-11, 2009

- 234. Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "Vibration Suppression of Flexible Beam Using Electromagnetic Shunt Damper", Asian Magnetics Conference (AMC 2008), Busan, Korea, December 10-13, 2008
- 235. Xuan-Lun Wang, and <u>II-Kwon Oh</u>, "Sulfonated Poly(styrene-b-ethylene-co-butylene-b-styrene) and Fullerene Composites for Ionic Polymer Actuators", <u>International Conference on Nano Science and Nano Technology</u>, Gwangju, Korea, November 6-7, 2008
- 236. J.-H. Joo, Tai-Hong Cheng, <u>II-Kwon Oh</u>, and K.-J. Kang, "Vibration and Damping Characteristics of Wire-woven Bulk Kagome Truss PCMs", Cellular Metals for Structural and Functional Applications (CELLMET 2008), Dresden, Germany, October 8-10, 2008
- 237. Jin-Han Jeon, and <u>II-Kwon Oh</u>, "Fabrication and actuation of Ionic-Polymer-Metal-Composite Actuator with Selectively Grown Multiple Electrodes", The 4th International Conference on Technological Advanced of ThinFilms & Surface Coating (ThinFilms 2008), Singapore, July 13-16, 2008
- 238. Jun Lu, Sang-Gyun Kim, Sunwoo Lee, and <u>II-Kwon Oh</u>, "Ionic Polymer-Metal Composite Actuator Based on PSMI-Incorporated PVDF with Chemical Stability and Performance Durability", The 4th International Conference on Technological Advanced of ThinFilms & Surface Coating (ThinFilms 2008), Singapore, July 13-16, 2008

- 239. Xuan-Lun Wang, and <u>II-Kwon Oh</u>, "Reinforement of Carbon Nanofibers for IPMC Actuators Employing Sulfonated Poly(styrene-b-ethylene-co-butylene-b-styrene) Ionomers Poly(styrene-b-ethylene-co-butylene-b-styrene) Ionomers", The 15th International Congress on Sound and Vibration (ICSV 15), Daejeon, Korea, July 6-10, 2008
- 240. Lu Jun, <u>II-Kwon Oh</u>, and R. Hung, "Growth of Spatial Dendrites in Bisphenol-A Polycarbonate Induced by Dioctyl Phthalate at High Pressure", The 22nd International Liquid Crystal Conference (ILCC 2008), Jeju, Korea, June 29 July 4, 2008
- 241. Xuan-Lun Wang, <u>II-Kwon Oh</u>, and Tai-Hong Cheng, "Mechanical Model and Analysis of Ionic Polymer Metal Composites Biomimetic Actuators", The 7th World Congress on Intelligent Control and Automation (WCICA 2008), Chongqing, China, June 25-27, 2008
- 242. Seong-Won Yeom, and <u>II-Kwon Oh</u>, "Fabrication and Evaluation of Biomimetic Jellyfish Robot Using IPMC", The 3th International Conference on Smart Materials, Structures, and Systems (CIMTEC 2008), La Perla Ionica, Sicily, Italy, June 8-13, 2008
- 243. Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "An Experimental study on Vibration Suppression of Cantilever Beams by Using Electromagnetic Damper and Actuator", SPIE Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring 2008, San Diego, United States, March 9-13, 2008
- 244. Jun Lu, Kim, Sun-Woo Lee, and <u>II-Kwon Oh</u>, "Novel electro-active polymer actuator based on ionic networking membrane of PSMI-incorporated PVDF", SPIE Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring 2008, San Diego, United States, March 9-13, 2008
- 245. Tai-Hong Cheng, and <u>II-Kwon Oh</u>, "Vibration Suppression of Beam by Using Magnet-coil", SPIE Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring 2008, San Diego, United States, March 9-13, 2008

- 246. Xuan-Lun Wang, and <u>II-Kwon Oh</u>, "Study on the Electro-Deformation Performance of SSEBS Ionic Polymer and Carbon nanofibers Composite Actuator", The 10th International Symposium on Technology for Next Generation Vehicle & Machine, Chonnam National University, Gwangju, Korea, October 26-27, 2007
- 247. Tai-Hong Cheng, and <u>Il-Kwon Oh</u>, "Static Deformation Analyses of Composite Rotor Blades Based On Fluid- Structure Coupling", <u>Advanced Technology in Experimental Mechanics 2007</u>, Acros Fukuoka, Fukuoka, Japan, September 12-14, 2007
- 248. Jun Lu, S.-G. Kim, Sun-Woo Lee, and <u>II-Kwon Oh</u>, "Electro-Active Polymer Actuator Based on Ionic Networkion Membrane of Poly (styrene-alt-malei angydride)-Incorporated Poly (vinylidene fluoride)", The 2nd International Symposium on Mechanics, Aerospace and Informatics Engineering (ISMAI-2 2007), Gyeongsang National University, Jinju, Korea, September 5-8, 2007
- 249. Xuan-Lun Wang, <u>II-Kwon Oh</u>, Jun Lu, J.-H. Ju, and Sun-Woo Lee, "Ionic Polymer-Metal Composite Actuators Employing Sulfonated Poly (strene-ethylene-butylene-styrene) as Ionic-Exchange Membranes", International Conference on Smart Materials and Nanotechnology in Engineering (SMN 2007), Harbin, China, July 1-4, 2007
- 250. Jun Lu, <u>II-Kwon Oh</u>, Rui Hang, L. Li, Xuan-Lun Wang, and Tai-Hong Cheng, "Extend-chain morphologies in high-pressure crystallized poly(ethylene terephthalate) / bisphenol-A polycarbonate blends", The 3rd China-Europe Symposium on Properties of Reinforced Polymers, Budapest, Hungary, June 11-15, 2007

- 251. S.-L. Wang, and <u>II-Kwon Oh</u>, "Biomimetic Composite Actuators Based on S-SEBS Ionic Membrane", The 10th International Conference on Mechanical Behavior of Materials (ICM 10), BEXCO, Busan, Korea, May 27-30, 2007
- 252. Seung-Hyun Lim, <u>II-Kwon Oh</u>, and Jung-Ryul Lee, "NOVEL ULTRASONIC ACTIVE OPTICAL FIBER SENSOR FOR HEALTH MONITORING", The 6th International Symposium on Advanced Composites (COMP 2007), Corfu Imperial Hotel, Corfu, Greece, May 16-18, 2007

### 2006 and Before

- 253. Jin-Young Jung, and <u>II-Kwon Oh</u>, "Novel Nano-composite Actuator Based on SSEBS Polymer", <u>International Conference on Nano Science and Nano Technology</u>, Gwangju, Korea, December 7-8, 2006
- 254. Dong-Hyun Kim, Hyun-Jun Kim, <u>II-Kwon Oh</u>, and S.-S. Lee, "Nonlinear aeroelastic characteristics of a laminated composite wing considering compressible shock wave effects", The 5th Asian/Australasian Conference on Composite Materials (ACCM-5), Hong Kong, China, November 27-30, 2006
- 255. Jin-Han Jeon, <u>II-Kwon Oh</u>, Jae-Hung Han, and Sun-Woo Lee, "Development of Bio-mimetic Patterned IPMC Actuators with Multiple Electrodes", The 5th Asian/Australasian Conference on Composite Materials (ACCM-5), Hong Kong, China, November 27-30, 2006
- 256. <u>II-Kwon Oh</u>, Won-Gul Whang, Dong-Hyun Kim, and In Lee, "Stabilization of thermoelastic unstable postbuckling in cylindrical piezolaminated panels", The 5th Asian/Australasian Conference on Composite Materials (ACCM-5), Hong Kong, China, November 27-30, 2006
- 257. J.-H. Ju, Xuan-Lun Wang, Jin-Han Jeon, <u>II-Kwon Oh</u>, and Sun-Woo Lee, "Preparation of Ionic Polymers and Their Application as IPMC; sulfonated SEBS and PC", IUPAC International Symposium on Advanced Polymers for Emerging Technologies, BEXCO, Busan, Korea, October 10-13, 2006
- 258. <u>II-Kwon Oh</u>, and Jin-Young Jung, "Biomimetic Nano-Composite Actuators Based on Carbon Nanotubes and Ionic Polymers", <u>International Joint Concerence of INABIO/SMEBA</u>, KAIST, Daejeon, Korea, September 21-23, 2006
- 259. Seung-Hyun Lim, Jung-Ryul Lee, Fu-Kuo Chang, and <u>II-Kwon Oh</u>, "Fiber Sensors based on Piezoelectric Ultrasonic Wave", <u>International Joint Concerence of INABIO/SMEBA</u>, KAIST, Daejeon, Korea, September 21-23, 2006
- 260. Dong-Weon Lee, and <u>II-Kwon Oh</u>, "Micro/nanoheater-integrated cantilevers for micro/nano lithography applications", The 32nd International Conference on Micro-and Nano-Engineering, Barcelona, Spain, September 17-20, 2006
- 261. <u>II-Kwon Oh</u>, and Dong-Weon Lee, "Resonant Frequency and Instability of Multi-layered Micro-Resonators with Initial Imperfection Subject to Piezoelectric Loads", The 32nd International Conference on Micro-and Nano- Engineering, Barcelona, Spain, September 17-20, 2006
- 262. <u>II-Kwon Oh</u>, and Jin-Young Jung, "Active Suppression of Thermoelastic Snap-through of Cylindrical Piezolaminated Panels", International Workshop on Multidisciplinary Design Exploration in Okinawa 2006, Seinen kaikan, Okinawa, Japan, September 12-14, 2006
- 263. <u>II-Kwon Oh</u>, and Jin-Han Jeon, "Novel Patterning Method of Multiple Electrode IPMC Actuator for Biomimetic motion", The 5th Joint Symposium between Doshisha University & Chonnam National University, Chonnam National University, Gwangju, Korea, August 8, 2006
- 264. Il-Kwon Oh, "A Study On Noise Radiation From Compressor Shell", International

- Compressor Engineering Conference, Perdue University, West Lafayette, United States, July 17-20, 2006
- 265. <u>II-Kwon Oh</u>, "Control of Snap-through Instability of Cylindrical Piezolaminated Panels Using Piezoelectric Actuation", <u>International Conference on Composite Materials & Nano-Structures</u>, Concorde Hotel, Shah Alam Selangor, Malaysia, April 25-29, 2006
- 266. <u>II-Kwon Oh</u>, "Advanced Aeroelastic Computation of a Composite Curved Missile Fin Using Coupled Parallel Computing", <u>International Conference on Composite Materials & Nano-Structures</u>, Concorde Hotel, Shah Alam Selangor, Malaysia, April 25-29, 2006
- 267. <u>II-Kwon Oh</u>, Jin-Han Jeon, and Y.-G. Lee, "Multiple Electrode Patterning of Ionic-Polymer-Metal-Composite Actuators", SPIE Smart Structures and Materials & Nondestructive Evaluation 2006, San Diego, United States, February 26 March 2, 2006
- 268. Jin-Han Jeon, and <u>II-Kwon Oh</u>, "Dynamic Characteristics of Novel Ionic-Polymer-Metal-Composites", The 1st international Conference on Advanced Nondestructive Evaluation (ANDE 2005), Jeju, Korea, November 7-9, 2005
- 269. <u>II-Kwon Oh</u>, "TUNABLE MICRO-RESONATORS WITH ELECTROTHERMAL AND PIEZOLELECTRIC ACTUATORS", The 12th International Congress on Sound and Vibration (ICSV 2005), Lisbon, Portugal, July 11-14, 2005
- 270. <u>II-Kwon Oh</u>, and In Lee, "NONLINEAR DYNAMICS OF ACTIVE PIEZOLAMINATED PLATES ON THERMOPIEZOELASTIC BEHAVIORS", The 6th International Congress on Thermal Stresses, Vienna, Austria, May 26-29, 2005
- 271. <u>II-Kwon Oh</u>, "Frequency-Tuning Characteristics of Multi-layered Micro-Resonators Using Thermopiezoelectric Actuation", The 4th Joint Symposium between Gifu University & Chonnam National University, Chonnam National University, Gwangju, Korea, May 2-4, 2005
- 272. <u>II-Kwon Oh</u>, "Secondary Instability of Smart Piezolaminated Plates Subject to Thermopiezoelectric Loads", The 4th Joint Symposium between Chonnam National University & Doshisha University, Chonnam National University, Gwangju, Korea, July 27-28, 2004
- 273. <u>II-Kwon Oh</u>, D. Huh, and H.-S. Choi, "Reduction of Refrigerant Noise of Dehumidification Systems with Capillary", The 4th international Symposium on Heating, Ventilation and Air Conditioning (ISHVAC 2003), Tsinghua University, Beijing, China, October 9-11, 2003
- 274. In Lee, Jin-Ho Roh, and <u>Il-Kwon Oh</u>, "Aerothermoelastic Phenomena of Aerospace and Composite Structures", The 5th International Congress on Thermal Stresses, Blacksburg, United States, June 8-11, 2003
- 275. <u>II-Kwon Oh</u>, and In Lee, "Aerothermoelastic Analysis of Cylinderical Piezolaminated Shells using ultifield Layerwise Theory", International Mechanical Engineering Congress and Exposition (IMECE 2002), New Orleans, United States, November 17-22, 2002
- 276. <u>II-Kwon Oh</u>, Dong-Hyun Kim, Won-Ho Shin, In Lee, and Kyo-Nam Koo, "Vibration and Damping Analysis of Cylindrical Hybrid Composite Panels with Viscoelastic Layer", The 3rd Asian-Australasian Conference on Composite Materials (ACCM 2002), New Zealand, July 15-17, 2002
- 277. <u>II-Kwon Oh</u>, and In Lee, "Snap-Through Phenomena on Nonlinear Thermopiezoelastic Behavior of Piezolaminated Plates", The 13th International Conference on Composite Materials (ICCM 13), Beijing, China, June 25-29, 2001
- 278. <u>II-Kwon Oh</u>, and In Lee, "Thermoelastic Snapping and Vibration Analysis of Cylindrical Composite Panels", The 25th Symposium for Composite Materials, Hokkaido Institute of Technology, Hokkaido, Japan, October 5-6, 2000

- 279. <u>II-Kwon Oh</u>, Jae-Hung Han, and In Lee, "Thermopiezoelastic Postbuckling and Vibration Analysis of Piezolaminated Plate Using Layerwise Theory", The 2nd Asian-Australasian Conference on Composite Materials (ACCM 2000), Kyungju, Korea, August 18-20, 2000
- 280. In Lee, and <u>II-Kwon Oh</u>, "Snapping and Vibration of Cylindrical Composite Panels Subject to Thermal Loads", Korean-French Workshop on Composite Materials, Seoul, Korea, August, 2000
- 281. In Lee, <u>II-Kwon Oh</u>, and Dong-Min Lee, "Vibration and Flutter Characteristics of Stiffened Composite Plate Considering Thermal Effect", <u>International Mechanical Engineering Congress and Exposition (IMECE 1997)</u>, Dallas, United States, November 16-21, 1997