

Dong-Myeong Shin

List of Publications by Year in descending order

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53
papers

1,284
citations

430442

18
h-index

360668

35
g-index

53
all docs

53
docs citations

53
times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	A Single-Ion Conducting Borate Network Polymer as a Viable Quasi-Solid Electrolyte for Lithium Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e1905771.	11.1	121
2	Bioinspired piezoelectric nanogenerators based on vertically aligned phage nanopillars. <i>Energy and Environmental Science</i> , 2015, 8, 3198-3203.	15.6	115
3	Functionalized Porous Aromatic Frameworks as High-Performance Adsorbents for the Rapid Removal of Boric Acid from Water. <i>Advanced Materials</i> , 2019, 31, e1808027.	11.1	96
4	Hyaluronic Acid/PLGA Core/Shell Fiber Matrices Loaded with EGCG Beneficial to Diabetic Wound Healing. <i>Advanced Healthcare Materials</i> , 2016, 5, 3035-3045.	3.9	91
5	Recent Advances in Organic Piezoelectric Biomaterials for Energy and Biomedical Applications. <i>Nanomaterials</i> , 2020, 10, 123.	1.9	89
6	Aerodynamic and aeroelastic flutter driven triboelectric nanogenerators for harvesting broadband airflow energy. <i>Nano Energy</i> , 2017, 33, 476-484.	8.2	81
7	Freestanding ZnO nanorod/graphene/ZnO nanorod epitaxial double heterostructure for improved piezoelectric nanogenerators. <i>Nano Energy</i> , 2015, 12, 268-277.	8.2	72
8	Single-ion conducting polymer electrolytes as a key jigsaw piece for next-generation battery applications. <i>Chemical Science</i> , 2021, 12, 13248-13272.	3.7	62
9	Bioinspired M-13 bacteriophage-based photonic nose for differential cell recognition. <i>Chemical Science</i> , 2017, 8, 921-927.	3.7	46
10	Versatile nanodot-patterned Gore-Tex fabric for multiple energy harvesting in wearable and aerodynamic nanogenerators. <i>Nano Energy</i> , 2018, 54, 209-217.	8.2	45
11	Current achievements of nanoparticle applications in developing optical sensing and imaging techniques. <i>Nano Convergence</i> , 2016, 3, 30.	6.3	42
12	Hybrid photovoltaic-triboelectric nanogenerators for simultaneously harvesting solar and mechanical energies. <i>Nano Energy</i> , 2021, 89, 106376.	8.2	31
13	Identification of Endocrine Disrupting Chemicals using a Virus-Based Colorimetric Sensor. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3097-3101.	1.7	30
14	Increased EGFR expression induced by a novel oncogene, CUG2, confers resistance to doxorubicin through Stat1-HDAC4 signaling. <i>Cellular Oncology (Dordrecht)</i> , 2017, 40, 549-561.	2.1	28
15	Water-Through Triboelectric Nanogenerator Based on Ti-Mesh for Harvesting Liquid Flow. <i>Journal of the Korean Physical Society</i> , 2018, 72, 499-503.	0.3	27
16	Boosting power output of flutter-driven triboelectric nanogenerator by flexible flagpole. <i>Nano Energy</i> , 2021, 88, 106284.	8.2	24
17	Emerging optical spectroscopy techniques for biomedical applications – A brief review of recent progress. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 264-278.	3.4	20
18	Cell Migration According to Shape of Graphene Oxide Micropatterns. <i>Micromachines</i> , 2016, 7, 186.	1.4	19

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19	Plasmon-Coupled Whispering Gallery Modes on Nanodisk Arrays for Signal Enhancements. Scientific Reports, 2017, 7, 11737.	1.6	19
20	Nanogenerators facilitated piezoelectric and flexoelectric characterizations for bioinspired energy harvesting materials. Nano Energy, 2021, 81, 105607.	8.2	18
21	A Sustainable and Flexible Microbrush-Faced Triboelectric Generator for Portable/Wearable Applications. Advanced Materials, 2021, 33, e2102530.	11.1	18
22	A Review of Advanced Impedance Biosensors with Microfluidic Chips for Single-Cell Analysis. Biosensors, 2021, 11, 412.	2.3	18
23	Spontaneously promoted osteogenic differentiation of MC3T3-E1 preosteoblasts on ultrathin layers of black phosphorus. Materials Science and Engineering C, 2021, 128, 112309.	3.8	17
24	Comparison of thermal and elastic properties of glassy racemic and enantiomeric ibuprofen studied by Brillouin light scattering and modulated differential scanning calorimetry. Current Applied Physics, 2014, 14, 965-969.	1.1	16
25	Highly sensitive detection of epidermal growth factor receptor expression levels using a capacitance sensor. Sensors and Actuators B: Chemical, 2015, 209, 438-443.	4.0	15
26	Plasmonic signal enhancements using randomly distributed nanoparticles on a stochastic nanostructure substrate. Applied Spectroscopy Reviews, 2016, 51, 646-655.	3.4	15
27	A critical review on genotoxicity potential of low dimensional nanomaterials. Journal of Hazardous Materials, 2021, 409, 124915.	6.5	15
28	Effect of the dielectric layer on the electrical output of a ZnO nanosheet-based nanogenerator. Journal of the Korean Physical Society, 2015, 67, 1920-1924.	0.3	12
29	Graphene oxide-functionalized nanofibre composite matrices to enhance differentiation of hippocampal neuronal cells. Materials Advances, 2020, 1, 3496-3506.	2.6	12
30	Highly Durable Ti-Mesh Based Triboelectric Nanogenerator for Self-Powered Device Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 4864-4869.	0.9	9
31	Enhancing Electrical Outputs of Piezoelectric Nanogenerators by Controlling the Dielectric Constant of ZnO/PDMS Composite. Micromachines, 2021, 12, 630.	1.4	9
32	Relaxation behaviors of enantiomeric S-ibuprofen as revealed by dielectric and photon correlation spectroscopies. Current Applied Physics, 2015, 15, 958-963.	1.1	6
33	WO ₃ -ZnO and CuO-ZnO nanocomposites as highly efficient photoanodes under visible light illumination. Nanotechnology, 2020, 31, 255702.	1.3	6
34	Acoustic and relaxation behaviors of polydimethylsiloxane studied by using Brillouin and dielectric spectroscopies. Journal of the Korean Physical Society, 2016, 68, 896-900.	0.3	5
35	Cooperativity of Silver Nanostructures upon Electric Power Generation in Triboelectric Polyimide Layers. Advanced Engineering Materials, 2022, 24, .	1.6	5
36	Compressed-exponential relaxations in supercooled liquid trehalose. Current Applied Physics, 2012, 12, 1548-1552.	1.1	4

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37	Precise observation of <i>C. elegans</i> dynamic behaviours under controlled thermal stimulus using a mobile phone-based microscope. <i>Journal of Microscopy</i> , 2017, 266, 28-34.	0.8	4
38	Nanocomposite scaffolds for myogenesis revisited: Functionalization with carbon nanomaterials and spectroscopic analysis. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 129-156.	3.4	4
39	Exploring the use of impedance spectroscopy in relaxation and electrochemical studies. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 157-176.	3.4	4
40	Preparation of ZnO Nanorod/Graphene/ZnO Nanorod Epitaxial Double Heterostructure for Piezoelectrical Nanogenerator by Using Preheating Hydrothermal. <i>Journal of Visualized Experiments</i> , 2016, , e53491.	0.2	3
41	Caramelization Processes in Sugar Glasses and Sugar Polycrystals. <i>New Physics: Sae Mulli</i> , 2012, 62, 761-767.	0.0	3
42	Effects of N- and N-In doping on ZnO films prepared by using ultrasonic spray pyrolysis. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1890-1895.	0.3	2
43	Synthesis and physical properties of zinc-oxide textured films by using a filtered preheated hydrothermal. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1423-1429.	0.3	2
44	Effect of nanoscale confinement on dielectric relaxations in a 3wt.% water-galactose mixture. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1092-1096.	0.3	1
45	Cell-based capacitance sensor for analysis of EGFR expression on cell membrane. , 2013, , .		1
46	Relaxation processes in disaccharide sugar glasses. , 2013, , .		1
47	Effect of Nano-scale Confinement on Dielectric Relaxation in a 3 wt.% Water-Galactose Mixture. <i>New Physics: Sae Mulli</i> , 2011, 61, 406-412.	0.0	1
48	Effects of the disaccharide concentration and the extrusion speed on the size of unilamella vesicles. <i>Current Applied Physics</i> , 2011, 11, 1401-1404.	1.1	0
49	Effects of Water Layer on a Through Silicon Via by Using a KrF Excimer Laser. <i>New Physics: Sae Mulli</i> , 2013, 63, 432-437.	0.0	0
50	Improvement of Electrodeposition Rate of Cu Layer by Heat Treatment of Electroless Cu Seed Layer. <i>Korean Journal of Materials Research</i> , 2014, 24, 186-193.	0.1	0
51	Optical trapping and measurement of a single cell using capacitive sensors. , 2016, , .		0
52	Piezoelectric Nanogenerators: Energy Harvesting Technology. <i>Vacuum Magazine</i> , 2016, 3, 17-20.	0.0	0
53	Facile Meniscus Dragging Depositions for Lateral Alignment of ZnO Nanowires. <i>New Physics: Sae Mulli</i> , 2017, 67, 41-45.	0.0	0