Seong J Cho

List of Publications by Year
in descending order

43 papers	910 citations	566801 15 h-index	454577 30 g-index
44 all docs	44 docs citations	44 times ranked	1441 citing authors

#	Article	IF	Citations
1	An underwater superoleophobic nanofibrous cellulosic membrane for oil/water separation with high separation flux and high chemical stability. Nanoscale, 2018, 10, 3037-3045.	2.8	122
2	One-step fabrication of superhydrophobic hierarchical structures by femtosecond laser ablation. Applied Surface Science, 2014, 313, 411-417.	3.1	104
3	A Rubberlike Stretchable Fibrous Membrane with Antiâ€Wettability and Gas Breathability. Advanced Functional Materials, 2013, 23, 5577-5584.	7.8	93
4	Omni-Purpose Stretchable Strain Sensor Based on a Highly Dense Nanocracking Structure for Whole-Body Motion Monitoring. ACS Applied Materials & Interfaces, 2017, 9, 41712-41721.	4.0	83
5	Tunable Ionic Transport for a Triangular Nanochannel in a Polymeric Nanofluidic System. ACS Nano, 2013, 7, 740-747.	7.3	71
6	Preparation of stable superhydrophobic mesh with a biomimetic hierarchical structure. Soft Matter, 2011, 7, 9867.	1.2	45
7	Replicable Multilayered Nanofibrous Patterns on a Flexible Film. Langmuir, 2010, 26, 14395-14399.	1.6	39
8	Superhydrophobic nanostructured silicon surfaces with controllable broadband reflectance. Chemical Communications, 2011, 47, 6108.	2.2	38
9	A stretchable humidity sensor based on a wrinkled polyaniline nanostructure. RSC Advances, 2014, 4, 39767.	1.7	38
10	Development of a Waterproof Crack-Based Stretchable Strain Sensor Based on PDMS Shielding. Sensors, 2018, 18, 1171.	2.1	33
11	A pore-size tunable superhydrophobic membrane for high-flux membrane distillation. Journal of Membrane Science, 2022, 641, 119862.	4.1	30
12	Nano-Cracked Strain Sensor with High Sensitivity and Linearity by Controlling the Crack Arrangement. Sensors, 2019, 19, 2834.	2.1	26
13	Fabrication of a Highly Sensitive Stretchable Strain Sensor Utilizing a Microfibrous Membrane and a Cracking Structure on Conducting Polymer. Macromolecular Materials and Engineering, 2018, 303, 1700389.	1.7	22
14	Comprehensive Electrokinetic-Assisted Separation of Oil Emulsion with Ultrahigh Flux. ACS Nano, 2021, 15, 15815-15823.	7.3	20
15	Three-dimensionally designed anti-reflective silicon surfaces for perfect absorption of light. Chemical Communications, 2014, 50, 15710-15713.	2.2	18
16	Effects of bending strain and crack direction on crack-based strain sensors. Smart Materials and Structures, 2020, 29, 115007.	1.8	15
17	Tensile strain-controlled drug delivery system based on a cracked metal structure. Sensors and Actuators B: Chemical, 2018, 270, 64-71.	4.0	11
18	A Rail-Temperature-Prediction Model Based on Machine Learning: Warning of Train-Speed Restrictions Using Weather Forecasting. Sensors, 2021, 21, 4606.	2.1	10

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19	Fabrication of Conducting Polymer Micro/Nanostructures Coated with Au Nanoparticles for Electrochemical Sensors. Journal of Nanoscience and Nanotechnology, 2012, 12, 4975-4978.	0.9	9
20	Enhanced cellular distribution and infiltration in a wet electrospun three-dimensional fibrous scaffold using eccentric rotation-based hydrodynamic conditions. Sensors and Actuators B: Chemical, 2016, 226, 357-363.	4.0	9
21	Development of an Integrated Evaluation System for a Stretchable Strain Sensor. Sensors, 2016, 16, 1114.	2.1	8
22	One-Step Laser Encapsulation of Nano-Cracking Strain Sensors. Sensors, 2018, 18, 2673.	2.1	8
23	A Rail-Temperature-Prediction Model Considering Meteorological Conditions and the Position of the Sun. International Journal of Precision Engineering and Manufacturing, 2019, 20, 337-346.	1.1	8
24	Prediction of a representative point for rail temperature measurement by considering longitudinal deformation. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2019, 233, 1003-1011.	1.3	7
25	Optical switching patterns using electrospun nanofiber array. Physica Status Solidi - Rapid Research Letters, 2012, 6, 409-411.	1.2	5
26	Human-mimetic soft robot joint for shock absorption through joint dislocation. Bioinspiration and Biomimetics, 2020, 15, 016001.	1.5	5
27	Flexible Sensory Systems: Structural Approaches. Polymers, 2022, 14, 1232.	2.0	5
28	Replicable and Shape-Controllable Fabrication of Electrospun Fibrous Scaffolds for Tissue Engineering. Journal of Nanoscience and Nanotechnology, 2012, 12, 9047-9050.	0.9	4
29	One-Step Fabrication of Hierarchically Structured Silicon Surfaces and Modification of Their Morphologies Using Sacrificial Layers. Journal of Nanomaterials, 2013, 2013, 1-8.	1.5	4
30	Direct Visualization of Microscale Dynamics of Water Droplets on under-Oil-Hydrophilic Membranes by Using Synchrotron White-Beam X-ray Microimaging Techniques. Langmuir, 2020, 36, 10548-10554.	1.6	3
31	Humidity-Controllable, High-Throughput, and Portable Nanofibrous Filter Coating System for Improving Air Quality. ACS Applied Nano Materials, 2021, 4, 2230-2237.	2.4	3
32	Focused Patterning of Electrospun Nanofibers Using a Dielectric Guide Structure. Polymers, 2021, 13, 1505.	2.0	3
33	Bio-molecules detection sensor using silicon nanowire. Proceedings of SPIE, 2009, , .	0.8	2
34	Numerical study on the characteristics of temperature distribution in continuous welded rail by solar radiation and rail orientation. Journal of Mechanical Science and Technology, 2020, 34, 4819-4829.	0.7	2
35	Preparation of multilayer periodic nanopatterned WO₃-based photoanode by reverse nanoimprinting for water splitting. Nanotechnology, 2021, 32, 395402.	1.3	2
36	Three-Axis Tension-Measuring Vitreoretinal Forceps Using Strain Sensor for Corneal Surgery. Polymers, 2021, 13, 4433.	2.0	2

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37	Hierarchical Nanostructures: A Rubberlike Stretchable Fibrous Membrane with Antiâ€Wettability and Gas Breathability (Adv. Funct. Mater. 45/2013). Advanced Functional Materials, 2013, 23, 5576-5576.	7.8	1
38	A stretchable humidity sensor based on a wrinkled polyaniline nanostructure. , 2013, , .		0
39	Development of stretchable strain sensor using elastic membrane coated with conducting material. , 2014, , .		0
40	Development of stretchable strain sensor using elastic fibrous membrane coated with conducting polymer. , 2015, , .		0
41	Macromol. Mater. Eng. 1/2018. Macromolecular Materials and Engineering, 2018, 303, 1870002.	1.7	0
42	Development of a Non-contact Liquid Dispenser for High Contents Screening System. Transactions of the Korean Society of Mechanical Engineers, A, 2016, 40, 581-585.	0.1	0
43	The Analysis of Deformation According to the Temperature Distribution in Rail. Korean Society of Hazard Mitigation, 2018, 18, 33-38.	0.1	0