

Bong Sup Shim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

4,444
citations

25
h-index

60
g-index

60
ext. papers

4,863
ext. citations

8.3
avg, IF

5.11
L-index

#	Paper	IF	Citations
57	Precisely tuned photonic properties of crystalline nanocellulose biocomposite coatings by gradually tailored nanoarchitectures.. <i>Carbohydrate Polymers</i> , 2022 , 282, 119053	10.3	0
56	Highly Conductive Melanin-like Polymer Composites for Nonenzymatic Glucose Biosensors with a Wide Detection Range. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2527-2535	4.3	0
55	Unveiling water drainage through microporous layer with laser-ablated open furrows in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021 , 491, 229563	8.9	3
54	High crystallinity of tunicate cellulose nanofibers for high-performance engineering films. <i>Carbohydrate Polymers</i> , 2021 , 254, 117470	10.3	5
53	Biosignal Sensors and Deep Learning-Based Speech Recognition: A Review. <i>Sensors</i> , 2021 , 21,	3.8	15
52	Esterification of Cellulose Nanofibers with Valeric Acid and Hexanoic Acid. <i>Macromolecular Research</i> , 2020 , 28, 1055-1063	1.9	2
51	Shape-Programmed Fabrication and Actuation of Magnetically Active Micropost Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17113-17120	9.5	24
50	Eco-Degradable and Flexible Solid-State Ionic Conductors by Clay-Nanoconfined DMSO Composites. <i>Advanced Sustainable Systems</i> , 2020 , 4, 1900134	5.9	4
49	Effect of expanding nanocellulose sponge on nasal mucosal defects in an animal model. <i>International Journal of Energy Production and Management</i> , 2020 , 7, 47-52	5.3	1
48	Natural Melanin Nanoparticle-decorated Screen-printed Carbon Electrode: Performance Test for Amperometric Determination of Hexavalent Chromium as Model Trace. <i>Electroanalysis</i> , 2020 , 32, 1696-1706	3.7	6
47	T-Positive Mn-Doped Multi-Stimuli Responsive poly(L-DOPA) Nanoparticles for Photothermal and Photodynamic Combination Cancer Therapy. <i>Biomedicines</i> , 2020 , 8,	4.8	5
46	Electrically conducting polymers for bio-interfacing electronics: From neural and cardiac interfaces to bone and artificial tissue biomaterials. <i>Biosensors and Bioelectronics</i> , 2020 , 170, 112620	11.8	26
45	Controlled release of doxorubicin from polyethylene glycol functionalized melanin nanoparticles for breast cancer therapy: Part I. Production and drug release performance of the melanin nanoparticles. <i>International Journal of Pharmaceutics</i> , 2019 , 570, 118613	6.5	16
44	Impedimetric Biosensors for Detecting Vascular Endothelial Growth Factor (VEGF) Based on Poly(3,4-ethylene dioxythiophene) (PEDOT)/Gold Nanoparticle (Au NP) Composites. <i>Frontiers in Chemistry</i> , 2019 , 7, 234	5	23
43	Durable soft neural micro-electrode coating by an electrochemical synthesis of PEDOT:PSS / graphene oxide composites. <i>Electrochimica Acta</i> , 2019 , 313, 79-90	6.7	18
42	Naturally Derived Melanin Nanoparticle Composites with High Electrical Conductivity and Biodegradability. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900166	3.1	9
41	Soft electronics on asymmetrical porous conducting membranes by molecular layer-by-layer assembly. <i>Sensors and Actuators B: Chemical</i> , 2018 , 254, 916-925	8.5	12

40	Nanoarchitecturing of Natural Melanin Nanospheres by Layer-by-Layer Assembly: Macroscale Anti-inflammatory Conductive Coatings with Optoelectronic Tunability. <i>Biomacromolecules</i> , 2017 , 18, 1908-1917	6.9	23
39	A nanostructured cell-free photosynthetic biocomposite via molecularly controlled layer-by-layer assembly. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 1-10	8.5	13
38	Tunable synthesis of hierarchical mesoporous silica via porogen-carrying organosilicates. <i>Microporous and Mesoporous Materials</i> , 2017 , 239, 409-415	5.3	1
37	Renewable Materials 2017 , 9-45		
36	Chemical Sensors 2017 , 77-106		
35	Melanin: A Naturally Existing Multifunctional Material. <i>Applied Chemistry for Engineering</i> , 2016 , 27, 115-122		11
34	Review of nanocellulose for sustainable future materials. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015 , 2, 197-213	3.8	297
33	Synthesis and characterization of bicontinuous cubic poly(3,4-ethylene dioxythiophene) gyroid (PEDOT GYR) gels. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5115-23	3.6	25
32	Optical heating and temperature determination of core-shell gold nanoparticles and single-walled carbon nanotube microparticles. <i>Small</i> , 2015 , 11, 1320-7	11	29
31	Regeneration of Recurrent Laryngeal Nerve using Polycaprolactone (PCL) Nerve Guide Conduit Coated with Conductive Materials. <i>Journal of Korean Thyroid Association</i> , 2015 , 8, 88		2
30	Decellular biological scaffold polymerized with PEDOT for improving peripheral nerve interface charge transfer. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 422-5	0.9	2
29	Nanoengineered colloidal probes for Raman-based detection of biomolecules inside living cells. <i>Small</i> , 2013 , 9, 351-6	11	47
28	Biological and electrophysiologic effects of poly(3,4-ethylenedioxythiophene) on regenerating peripheral nerve fibers. <i>Plastic and Reconstructive Surgery</i> , 2013 , 132, 374-385	2.7	7
27	Graphene: an emerging material for biological tissue engineering. <i>Carbon Letters</i> , 2013 , 14, 63-75	2.3	71
26	Record Properties of Layer-by-Layer Assembled Composites 2012 , 573-593		1
25	Ionic Liquid/Styrene-Acrylonitrile Copolymer Nanofibers as Chemiresistor for Alcohol Vapours. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 2867-2872	1.2	7
24	Transparent conductors from carbon nanotubes LBL-assembled with polymer dopant with π - π electron transfer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7450-60	16.4	78
23	Effect of Polymerization Methods on Peripheral Nerve Regeneration. <i>Plastic and Reconstructive Surgery</i> , 2011 , 128, 90-91	2.7	3

22	Transparent conductors from layer-by-layer assembled SWNT films: importance of mechanical properties and a new figure of merit. <i>ACS Nano</i> , 2010 , 4, 3725-34	16.7	128
21	E-Textile Conductors and Polymer Composites for Conformal Lightweight Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2732-2736	4.9	79
20	Carbon Nanotubes on Polymeric Microcapsules: Free-Standing Structures and Point-Wise Laser Openings. <i>Advanced Functional Materials</i> , 2010 , 20, 3136-3142	15.6	59
19	Polymer/clay and polymer/carbon nanotube hybrid organic/inorganic multilayered composites made by sequential layering of nanometer scale films. <i>Coordination Chemistry Reviews</i> , 2009 , 253, 2835-2851	23.2	87
18	Single-Walled Carbon Nanotubes Spontaneous Loading into Exponentially Grown LBL Films. <i>Chemistry of Materials</i> , 2009 , 21, 4397-4400	9.6	21
17	Conductive paper from lignocellulose wood microfibers coated with a nanocomposite of carbon nanotubes and conductive polymers. <i>Nanotechnology</i> , 2009 , 20, 215602	3.4	60
16	Multiparameter structural optimization of single-walled carbon nanotube composites: toward record strength, stiffness, and toughness. <i>ACS Nano</i> , 2009 , 3, 1711-22	16.7	131
15	Simple, rapid, sensitive, and versatile SWNT-paper sensor for environmental toxin detection competitive with ELISA. <i>Nano Letters</i> , 2009 , 9, 4147-52	11.5	222
14	Smart electronic yarns and wearable fabrics for human biomonitoring made by carbon nanotube coating with polyelectrolytes. <i>Nano Letters</i> , 2008 , 8, 4151-7	11.5	447
13	Can nature's design be improved upon? High strength, transparent nacre-like nanocomposites with double network of sacrificial cross links. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14359-63	3.4	93
12	Tailoring Piezoresistive Sensitivity of Multilayer Carbon Nanotube Composite Strain Sensors. <i>Journal of Intelligent Material Systems and Structures</i> , 2008 , 19, 747-764	2.3	121
11	The Effect of Stabilizer Density on Transformation of CdTe Nanoparticles Induced by Ag Cations. <i>Advanced Functional Materials</i> , 2008 , 18, 3801-3808	15.6	28
10	Integration of Conductivity, Transparency, and Mechanical Strength into Highly Homogeneous Layer-by-Layer Composites of Single-Walled Carbon Nanotubes for Optoelectronics. <i>Chemistry of Materials</i> , 2007 , 19, 5467-5474	9.6	145
9	Nanostructured thin films made by dewetting method of layer-by-layer assembly. <i>Nano Letters</i> , 2007 , 7, 3266-73	11.5	110
8	Counterintuitive effect of molecular strength and role of molecular rigidity on mechanical properties of layer-by-layer assembled nanocomposites. <i>Nano Letters</i> , 2007 , 7, 1224-31	11.5	133
7	Ultrastrong and stiff layered polymer nanocomposites. <i>Science</i> , 2007 , 318, 80-3	33.3	1322
6	Stimulation of Neural Cells by Lateral Currents in Conductive Layer-by-Layer Films of Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2006 , 18, 2975-2979	24	130
5	Multilayer composites from vapor-grown carbon nano-fibers. <i>Composites Science and Technology</i> , 2006 , 66, 1174-1181	8.6	33

4	Single-walled carbon nanotube combing during layer-by-layer assembly: from random adsorption to aligned composites. <i>Langmuir</i> , 2005 , 21, 9381-5	4	79
3	Molecularly engineered nanocomposites: layer-by-layer assembly of cellulose nanocrystals. <i>Biomacromolecules</i> , 2005 , 6, 2914-8	6.9	223
2	Biodegradable PEDOT:PSS/Clay Composites for Multifunctional Green-Electronic Materials. <i>Advanced Sustainable Systems</i> , 2100056	5.9	7
1	Layer-by-Layer Assembly of Multifunctional Carbon Nanotube Thin Films 305-319		