

Joonwon Bae

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.

65
papers

1,524
citations

20
h-index

37
g-index

66
ext. papers

1,746
ext. citations

5.6
avg, IF

4.75
L-index

#	Paper	IF	Citations
65	Wearable Cortisol Aptasensor for Simple and Rapid Real-Time Monitoring.. <i>ACS Sensors</i> , 2022 ,	9.2	10
64	In situ, real-time, colorimetric detection of β -hydroxybutyric acid (GHB) using self-protection products coated with chemical receptor-embedded hydrogel.. <i>Biosensors and Bioelectronics</i> , 2022 , 207, 114195	11.8	1
63	A study on fabrication of polypyrrole@lignin composite and electrical sensing and metal ion adsorption capabilities. <i>Materials Chemistry and Physics</i> , 2022 , 126166	4.4	0
62	In-situ food spoilage monitoring using a wireless chemical receptor-conjugated graphene electronic nose.. <i>Biosensors and Bioelectronics</i> , 2021 , 200, 113908	11.8	3
61	Development of the Functionalized Nanocomposite Materials for Adsorption/Decontamination of Radioactive Pollutants. <i>Materials</i> , 2021 , 14,	3.5	3
60	A Dual Functional Conductive Hydrogel Containing Titania@Polypyrrole-Cyclodextrin Hybrid Nanotubes for Capture and Degradation of Toxic Chemical. <i>Biochip Journal</i> , 2021 , 15, 162	4	2
59	High-Performance Conducting Polymer Nanotube-based Liquid-Ion Gated Field-Effect Transistor Aptasensor for Dopamine Exocytosis. <i>Scientific Reports</i> , 2020 , 10, 3772	4.9	16
58	Synthesis and characterization of In _{1-x} GaxP@ZnS alloy core-shell type colloidal quantum dots. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 88, 106-110	6.3	7
57	Ultrasensitive Stress Biomarker Detection Using Polypyrrole Nanotube Coupled to a Field-Effect Transistor. <i>Micromachines</i> , 2020 , 11,	3.3	7
56	Tailored hydrogels for biosensor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 89, 1-12	6.3	28
55	Versatile chemical sensors using oligosaccharides on cleanable PDMS/graphene hybrids for monitoring environmentally hazardous substances. <i>Applied Surface Science</i> , 2020 , 507, 145139	6.7	5
54	An elaborate sensor system based on conducting polymer-oligosaccharides in hydrogel and the formation of inclusion complexes. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 90, 266-273	6.3	4
53	Flexible Chemical Sensors Using Signal Generation from Cyclodextrin-Analyte Interactions on Polymer Composites. <i>Biochip Journal</i> , 2020 , 14, 251-257	4	5
52	High-performance ZnS@graphite composites prepared through scalable high-energy ball milling as novel anodes in lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 76, 258-267	6.3	16
51	A succinct review of refined chemical sensor systems based on conducting polymer@cyclodextrin hybrids. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 19-28	6.3	16
50	Development of Multi-Functional Graphene Polymer Composites Having Electromagnetic Interference Shielding and De-Icing Properties. <i>Polymers</i> , 2019 , 11,	4.5	17
49	Binary FeCo Oxyhydroxide Nanosheets as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2018 , 24, 4724-4728	4.8	38

48	Surface engineered poly(dimethylsiloxane)/carbon nanotube nanocomposite pad as a flexible platform for chemical sensors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 107, 55-60	8.4	16
47	Study on peculiar carbon pattern formation from polymer blend thin films under electric fields. <i>Thin Solid Films</i> , 2018 , 660, 846-851	2.2	2
46	Fluorescent polydopamine nanoparticles as a probe for zebrafish sensory hair cells targeted in vivo imaging. <i>Scientific Reports</i> , 2018 , 8, 4393	4.9	28
45	A study on generation of embossed carbon nanopattern by induced microdomain alignments in PAN-based block copolymer under electric field. <i>Journal of Materials Science</i> , 2018 , 53, 9316-9324	4.3	1
44	Incorporation of hydrogel as a sensing medium for recycle of sensing material in chemical sensors. <i>Applied Surface Science</i> , 2018 , 429, 258-263	6.7	20
43	Effect of a Surfactant in Microcapsule Synthesis on Self-Healing Behavior of Capsule Embedded Polymeric Films. <i>Polymers</i> , 2018 , 10,	4.5	6
42	Study on the Sensing Signal Profiles for Determination of Process Window of Flexible Sensors Based on Surface Treated PDMS/CNT Composite Patches. <i>Polymers</i> , 2018 , 10,	4.5	13
41	Enhanced adhesion properties of conductive super-hydrophobic surfaces by using zirco-aluminate coupling agent. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 387-392	6.3	4
40	Energy efficient capacitors based on graphene/conducting polymer hybrids. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 51, 1-11	6.3	28
39	A recyclable, recoverable, and reformable hydrogel-based smart photocatalyst. <i>Environmental Science: Nano</i> , 2017 , 4, 955-966	7.1	29
38	Dopamine Receptor D1 Agonism and Antagonism Using a Field-Effect Transistor Assay. <i>ACS Nano</i> , 2017 , 11, 5950-5959	16.7	19
37	Energy Efficient Graphene Based High Performance Capacitors. <i>Recent Patents on Nanotechnology</i> , 2017 , 11, 93-100	1.2	2
36	Polymer Composite Containing Carbon Nanotubes and their Applications. <i>Recent Patents on Nanotechnology</i> , 2017 , 11, 109-115	1.2	8
35	CopperAntimonyed phosphorus composites as promising anode materials for sodium-ion batteries. <i>Journal of Power Sources</i> , 2017 , 362, 115-122	8.9	20
34	Carboxylic Acid-Functionalized Conducting-Polymer Nanotubes as Highly Sensitive Nerve-Agent Chemiresistors. <i>Scientific Reports</i> , 2016 , 6, 33724	4.9	44
33	Toward Microcapsule-Embedded Self-Healing Membranes. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 216-221	11	31
32	Synthesis and Characterization of Thermo-Reversible Conductive Hydrogel Toward Smart Electrodes. <i>Science of Advanced Materials</i> , 2016 , 8, 176-179	2.3	4
31	Fabrication and Applications of Tailored Carbon Capsules. <i>Nanoscience and Nanotechnology - Asia</i> , 2016 , 6, 66-79	0.7	1

30	Fabrication of photo-crosslinkable polymer/silica sol-gel hybrid thin films as versatile barrier films. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 38, 61-66	6.3	5
29	An Ultrasensitive, Selective, Multiplexed Superbioelectronic Nose That Mimics the Human Sense of Smell. <i>Nano Letters</i> , 2015 , 15, 6559-67	11.5	97
28	Enhancement of adhesion between inorganic nanoparticles and polymeric matrix in nanocomposite by introducing polymeric thin film onto nanoparticles. <i>Polymer Engineering and Science</i> , 2015 , 55, 1906-1911	3.1	9
27	Tailoring environment friendly carbon nanostructures by surfactant mediated interfacial engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 30, 1-9	6.3	13
26	Elaborate Chemical Sensors Based on Graphene/Conducting Polymer Hybrids. <i>Current Organic Chemistry</i> , 2015 , 19, 1117-1133	1.7	10
25	The effect of nanoparticle on microdomain alignment in block copolymer thin films under an electric field. <i>Journal of Materials Science</i> , 2014 , 49, 4323-4331	4.3	6
24	Effect of nanoparticle surface functionality on microdomain orientation in block copolymer thin films under electric field. <i>Polymer</i> , 2014 , 55, 2014-2020	3.9	7
23	Controlled specific placement of nanoparticles into microdomains of block copolymer thin films. <i>Thin Solid Films</i> , 2014 , 562, 338-342	2.2	2
22	High Performance Sensors Using Graphene Based Organic-Inorganic Hybrids. <i>Current Organic Chemistry</i> , 2014 , 18, 2415-2429	1.7	3
21	A new polymeric binder for silicon-carbon nanotube composites in lithium ion battery. <i>Macromolecular Research</i> , 2013 , 21, 826-831	1.9	17
20	High-performance flexible graphene aptasensor for mercury detection in mussels. <i>ACS Nano</i> , 2013 , 7, 10563-71	16.7	160
19	A unique embossed carbon layer from induced domain alignment in a block copolymer thin film under an electric field. <i>Chemical Communications</i> , 2013 , 49, 5456-8	5.8	8
18	Large-scale graphene micropattern nano-biohybrids: high-performance transducers for FET-type flexible fluidic HIV immunoassays. <i>Advanced Materials</i> , 2013 , 25, 4177-85	24	85
17	A Review of Fabrication Methods and Applications of Novel Tailored Microcapsules. <i>Current Organic Chemistry</i> , 2013 , 17, 3-13	1.7	20
16	Nanoporous carbon template from surface reconstruction in block copolymer thin film. <i>Thin Solid Films</i> , 2012 , 520, 2351-2355	2.2	1
15	Electrohydrodynamic instabilities of polymer thin films: Filler effect. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 378-383	6.3	7
14	Thiol-ene/clay nanocomposite thin film as novel transparent barrier. <i>Polymer International</i> , 2012 , 61, 895-900	3.3	7
13	Effect of morphology of polyaniline nanomaterials on cure kinetics and properties of liquid crystalline epoxy nanocomposite. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 562-570	2.9	2

12	Fabrication of carbon microcapsules containing silicon nanoparticles for anode in lithium ion battery. <i>Colloid and Polymer Science</i> , 2011 , 289, 1233-1241	2.4	19
11	Effect of Randomly Networked Carbon Nanotubes in Silicon-Based Anodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A905	3.9	17
10	Effect of Nanoparticles on the Electrohydrodynamic Instabilities of Polymer/Nanoparticle Thin Films. <i>Macromolecules</i> , 2008 , 41, 2722-2726	5.5	38
9	Fabrication and characterization of polyaniline coated carbon nanofiber for supercapacitor. <i>Carbon</i> , 2005 , 43, 2730-2736	10.4	178
8	Selective Fabrication of Polymer Nanocapsules and Nanotubes Using Cyclodextrin as a Nanoporogen. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1320-1324	4.8	11
7	Synthesis and curing of poly(glycidyl methacrylate) nanoparticles. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 2258-2265	2.5	21
6	Fabrication of polymer nanofibers and carbon nanofibers by using a salt-assisted microemulsion polymerization. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3803-6	16.4	64
5	Fabrication of Polymer Nanofibers and Carbon Nanofibers by Using a Salt-Assisted Microemulsion Polymerization. <i>Angewandte Chemie</i> , 2004 , 116, 3891-3894	3.6	6
4	A study on the effect of surface treatment of carbon nanotubes for liquid crystalline epoxide-carbon nanotube composites. <i>Journal of Materials Chemistry</i> , 2003 , 13, 676-681		102
3	Cure Behavior of the Liquid-Crystalline Epoxy/Carbon Nanotube System and the Effect of Surface Treatment of Carbon Fillers on Cure Reaction. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 2196-2204	2.6	117
2	Role of silane coupling agents for performance improvement of poly(vinyl acetate)/tetraethyl orthosilicate hybrid composites prepared by a sol-gel process. <i>Polymer International</i> , 2001 , 50, 1247-1253	3.3	11
1	Phase-separation prevention and performance improvement of poly(vinyl acetate)/TEOS hybrid using modified sol-gel process. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 2310-2318	2.9	27