

Hyoung-Joon Jin

List of Publications by Citations

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201
papers

11,935
citations

46
h-index

106
g-index

207
ext. papers

13,028
ext. citations

6.6
avg, IF

6.5
L-index

#	Paper	IF	Citations
201	Mechanism of silk processing in insects and spiders. <i>Nature</i> , 2003 , 424, 1057-61	50.4	1064
200	Electrospun silk-BMP-2 scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2006 , 27, 3115-24	15.6	980
199	Porous 3-D scaffolds from regenerated silk fibroin. <i>Biomacromolecules</i> , 2004 , 5, 718-26	6.9	730
198	Structure and properties of silk hydrogels. <i>Biomacromolecules</i> , 2004 , 5, 786-92	6.9	632
197	Electrospinning Bombyx mori silk with poly(ethylene oxide). <i>Biomacromolecules</i> , 2002 , 3, 1233-9	6.9	623
196	Human bone marrow stromal cell responses on electrospun silk fibroin mats. <i>Biomaterials</i> , 2004 , 25, 1039-47	15.6	537
195	Water-Stable Silk Films with Reduced Sheet Content. <i>Advanced Functional Materials</i> , 2005 , 15, 1241-1247	15.6	487
194	Macrophage responses to silk. <i>Biomaterials</i> , 2003 , 24, 3079-85	15.6	445
193	Microporous carbon nanoplates from regenerated silk proteins for supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 1993-8	24	421
192	Mechanical Properties of Electrospun Silk Fibers. <i>Macromolecules</i> , 2004 , 37, 6856-6864	5.5	263
191	Nanofibrous Membranes Prepared by Multiwalled Carbon Nanotube/Poly(methyl methacrylate) Composites. <i>Macromolecules</i> , 2004 , 37, 9899-9902	5.5	216
190	Hierarchically porous carbon nanosheets from waste coffee grounds for supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3684-90	9.5	213
189	Biomaterial films of Bombyx mori silk fibroin with poly(ethylene oxide). <i>Biomacromolecules</i> , 2004 , 5, 711-7	6.9	202
188	Electrically conductive bacterial cellulose by incorporation of carbon nanotubes. <i>Biomacromolecules</i> , 2006 , 7, 1280-4	6.9	191
187	Effects of sulfur doping on graphene-based nanosheets for use as anode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 262, 79-85	8.9	183
186	Carbonization of a stable sheet-rich silk protein into a pseudographitic pyroprotein. <i>Nature Communications</i> , 2015 , 6, 7145	17.4	147
185	Carbon Nanotube-Adsorbed Polystyrene and Poly(methyl methacrylate) Microspheres. <i>Chemistry of Materials</i> , 2005 , 17, 4034-4037	9.6	138

184	Reinforcing effects of adding alkylated graphene oxide to polypropylene. <i>Carbon</i> , 2011 , 49, 3553-3559	10.4	115
183	Applications of Carbon Nanotubes for Lithium Ion Battery Anodes. <i>Materials</i> , 2013 , 6, 1138-1158	3.5	108
182	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015 , 27, 6914-21	24	107
181	Preparation of superhydrophobic polystyrene membranes by electrospinning. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 411-414	5.1	104
180	Electrospinning of Poly(ethylene oxide) with Bacterial Cellulose Whiskers. <i>Macromolecular Symposia</i> , 2007 , 249-250, 289-294	0.8	96
179	Thermal and electrical properties of poly(l-lactide)-graft-multiwalled carbon nanotube composites. <i>European Polymer Journal</i> , 2007 , 43, 1729-1735	5.2	90
178	Nylon 610 and carbon nanotube composite by in situ interfacial polymerization. <i>Polymer</i> , 2006 , 47, 3961-3966	3.9	86
177	Modification and applications of bacterial celluloses in polymer science. <i>Macromolecular Research</i> , 2010 , 18, 309-320	1.9	85
176	Regenerated bacterial cellulose/multi-walled carbon nanotubes composite fibers prepared by wet-spinning. <i>Current Applied Physics</i> , 2009 , 9, e96-e99	2.6	81
175	Carbon Nanotube-Adsorbed Electrospun Nanofibrous Membranes of Nylon 6. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 146-151	4.8	80
174	Hierarchically porous carbon nanofibers containing numerous heteroatoms for supercapacitors. <i>Journal of Power Sources</i> , 2013 , 234, 285-291	8.9	77
173	Silk apatite composites from electrospun fibers. <i>Journal of Materials Research</i> , 2005 , 20, 3374-3384	2.5	69
172	Citrus-Peel-Derived, Nanoporous Carbon Nanosheets Containing Redox-Active Heteroatoms for Sodium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3175-81	9.5	68
171	Crumpled graphene paper for high power sodium battery anode. <i>Carbon</i> , 2016 , 99, 658-664	10.4	68
170	Long-Lasting NbO-Based Nanocomposite Materials for Li-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2267-2274	9.5	67
169	Advances in the Design of 3D-Structured Electrode Materials for Lithium-Metal Anodes. <i>Advanced Materials</i> , 2020 , 32, e2002193	24	65
168	Ultra-Thin Hollow Carbon Nanospheres for Pseudocapacitive Sodium-Ion Storage. <i>ChemElectroChem</i> , 2015 , 2, 359-365	4.3	63
167	Transparent conducting films based on graphene oxide/silver nanowire hybrids with high flexibility. <i>Synthetic Metals</i> , 2012 , 162, 1364-1368	3.6	60

166	Pseudocapacitive Effects of N-Doped Carbon Nanotube Electrodes in Supercapacitors. <i>Materials</i> , 2012 , 5, 1258-1266	3.5	60
165	High-performance supercapacitors based on defect-engineered carbon nanotubes. <i>Carbon</i> , 2014 , 80, 246-254	10.4	59
164	Thermal and electrical conductivity of poly(l-lactide)/multiwalled carbon nanotube nanocomposites. <i>Current Applied Physics</i> , 2008 , 8, 803-806	2.6	59
163	Macroporous Catalytic Carbon Nanotemplates for Sodium Metal Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1701261	21.8	58
162	Electrically conductive transparent papers using multiwalled carbon nanotubes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 1235-1242	2.6	57
161	Multiple light scattering measurement and stability analysis of aqueous carbon nanotube dispersions. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1209-1212	3.9	56
160	Microporous carbon nanosheets with redox-active heteroatoms for pseudocapacitive charge storage. <i>Nanoscale</i> , 2015 , 7, 15051-8	7.7	55
159	Porous graphene/carbon nanotube composite cathode for proton exchange membrane fuel cell. <i>Synthetic Metals</i> , 2011 , 161, 2460-2465	3.6	52
158	Transparent nanocomposites prepared by incorporating microbial nanofibrils into poly(l-lactic acid). <i>Current Applied Physics</i> , 2009 , 9, S69-S71	2.6	51
157	Multiwalled carbon nanotube cryogels with aligned and non-aligned porous structures. <i>Polymer</i> , 2009 , 50, 2786-2792	3.9	48
156	Chemical and physical reinforcement behavior of dialdehyde nanocellulose in PVA composite film: A comparison of nanofiber and nanocrystal. <i>Carbohydrate Polymers</i> , 2020 , 232, 115771	10.3	47
155	Free-standing heterogeneous hybrid papers based on mesoporous MnO ₂ particles and carbon nanotubes for lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2013 , 244, 747-751	8.9	46
154	Difference of dispersion behavior between graphene oxide and oxidized carbon nanotubes in polar organic solvents. <i>Current Applied Physics</i> , 2012 , 12, 637-642	2.6	45
153	Preparation of multiwalled carbon nanotubes incorporated silk fibroin nanofibers by electrospinning. <i>Current Applied Physics</i> , 2009 , 9, S95-S97	2.6	41
152	Influence of cellulose nanofibers on the morphology and physical properties of poly(lactic acid) foaming by supercritical carbon dioxide. <i>Macromolecular Research</i> , 2013 , 21, 529-533	1.9	39
151	Pyroprotein-Based Electronic Textiles with High Stability. <i>Advanced Materials</i> , 2017 , 29, 1605479	24	37
150	Ultra strong pyroprotein fibres with long-range ordering. <i>Nature Communications</i> , 2017 , 8, 74	17.4	37
149	Chain extension and biodegradation of poly(butylene succinate) with maleic acid units. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 2240-2246	2.6	37

148	High and rapid alkali cation storage in ultramicroporous carbonaceous materials. <i>Journal of Power Sources</i> , 2016 , 313, 142-151	8.9	37
147	Conversion Reaction of Copper Sulfide Based Nanohybrids for Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9802-9808	8.3	36
146	Porous carbon nanotube electrodes supported by natural polymeric membranes for PEMFC. <i>Synthetic Metals</i> , 2010 , 160, 561-565	3.6	35
145	Synthesis of bacterial celluloses in multiwalled carbon nanotube-dispersed medium. <i>Carbohydrate Polymers</i> , 2009 , 77, 457-463	10.3	35
144	Silk protein as a fascinating biomedical polymer: Structural fundamentals and applications. <i>Macromolecular Research</i> , 2009 , 17, 935-942	1.9	35
143	Fluorescent silk fibroin nanoparticles prepared using a reverse microemulsion. <i>Macromolecular Research</i> , 2008 , 16, 604-608	1.9	35
142	Thermal and mechanical properties of mandelic acid-copolymerized poly(butylene succinate) and poly(ethylene adipate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 1504-1511	2.6	34
141	Waste coffee grounds-derived nanoporous carbon nanosheets for supercapacitors. <i>Carbon Letters</i> , 2016 , 19, 66-71	2.3	34
140	Electrically conducting electrospun silk membranes fabricated by adsorption of carbon nanotubes. <i>Colloid and Polymer Science</i> , 2007 , 285, 1163-1167	2.4	33
139	Chemical and physical reinforcement of hydrophilic gelatin film with di-aldehyde nanocellulose. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 332-342	7.9	33
138	pH-sensitive multiwalled carbon nanotube dispersion with silk fibroins. <i>Biomacromolecules</i> , 2009 , 10, 82-6	6.9	31
137	Restoration of thermally reduced graphene oxide by atomic-level selenium doping. <i>NPG Asia Materials</i> , 2016 , 8, e338-e338	10.3	31
136	Facile and green fabrication of silk sericin films reinforced with bamboo-derived cellulose nanofibrils. <i>Journal of Cleaner Production</i> , 2018 , 200, 1034-1042	10.3	30
135	Aspect ratio control of acid modified multiwalled carbon nanotubes. <i>Current Applied Physics</i> , 2010 , 10, 1046-1052	2.6	30
134	Aquatic polymer-based edible films of fish gelatin crosslinked with alginate dialdehyde having enhanced physicochemical properties. <i>Carbohydrate Polymers</i> , 2021 , 254, 117317	10.3	30
133	Amphicharge-Storable Pyropolymers Containing Multitiered Nanopores. <i>Advanced Energy Materials</i> , 2017 , 7, 1700629	21.8	29
132	Multiwalled Carbon Nanotubes-Embedded Electrospun Bacterial Cellulose Nanofibers. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 519, 169-178	0.5	29
131	Preparation, properties and application of polyamide/carbon nanotube nanocomposites. <i>Macromolecular Research</i> , 2009 , 17, 207-217	1.9	29

130	Location-selective incorporation of multiwalled carbon nanotubes in polycarbonate microspheres. <i>Polymer</i> , 2008 , 49, 2071-2076	3.9	29
129	Properties of aliphatic polyesters with n-paraffinic side branches. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 547-555	2.9	29
128	Nylon 610/functionalized multiwalled carbon nanotubes composites by in situ interfacial polymerization. <i>Materials Letters</i> , 2007 , 61, 2251-2254	3.3	28
127	Asymmetric Energy Storage Devices Based on Surface-Driven Sodium-Ion Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 616-624	8.3	26
126	Three-dimensionally branched carbon nanoweb as air-cathode for redox-mediated Li-O ₂ batteries. <i>Carbon</i> , 2017 , 118, 114-119	10.4	26
125	Magnetomotility of untethered helical soft robots.. <i>RSC Advances</i> , 2019 , 9, 11272-11280	3.7	26
124	Carbon aerogels based on regenerated silk proteins and graphene oxide for supercapacitors. <i>Macromolecular Research</i> , 2014 , 22, 509-514	1.9	26
123	Polyaniline nanofiber-coated polystyrene/graphene oxide core-shell microsphere composites. <i>Macromolecular Research</i> , 2012 , 20, 84-92	1.9	26
122	High-performance supercapacitors based on freestanding carbon-based composite paper electrodes. <i>Journal of Power Sources</i> , 2014 , 246, 540-547	8.9	26
121	Tin Sulfide-Based Nanohybrid for High-Performance Anode of Sodium-Ion Batteries. <i>Small</i> , 2017 , 13, 1700767	11	25
120	Alkylated and restored graphene oxide nanoribbon-reinforced isotactic-polypropylene nanocomposites. <i>Carbon</i> , 2016 , 108, 274-282	10.4	25
119	Electrochemical performance of heteroatom-enriched amorphous carbon with hierarchical porous structure as anode for lithium-ion batteries. <i>Materials Letters</i> , 2013 , 108, 311-315	3.3	25
118	Fallen-leaf-derived microporous pyropolymers for supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 223-228	6.3	25
117	Nitrogen-enriched multimodal porous carbons for supercapacitors, fabricated from inclusion complexes hosted by urea hydrates. <i>RSC Advances</i> , 2012 , 2, 4353	3.7	25
116	Adsorption of multi-walled carbon nanotube onto poly(methyl methacrylate) microsphere and its electrorheology. <i>Diamond and Related Materials</i> , 2006 , 15, 1094-1097	3.5	25
115	All-carbon-based cathode for a true high-energy-density Li-O ₂ battery. <i>Carbon</i> , 2017 , 114, 311-316	10.4	24
114	pH-Triggered transition of silk fibroin from spherical micelles to nanofibrils in water. <i>Macromolecular Research</i> , 2008 , 16, 539-543	1.9	24
113	Sulfur-Doped Carbon Nanotemplates for Sodium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1846-1852	6.1	23

112	Cellulose nanowhisker-incorporated poly(lactic acid) composites for high thermal stability. <i>Fibers and Polymers</i> , 2013 , 14, 1001-1005	2	23
111	Dispersion stability of chemically reduced graphene oxide nanoribbons in organic solvents. <i>RSC Advances</i> , 2016 , 6, 19389-19393	3.7	22
110	Waste Beverage Coffee-Induced Hard Carbon Granules for Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 12734-12740	8.3	22
109	Grafting of polystyrene branches to polyethylene and polypropylene. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1103-1111	2.9	22
108	Prevention of cellulose nanofibril agglomeration during dehydration and enhancement of redispersibility by hydrophilic gelatin. <i>Cellulose</i> , 2019 , 26, 4357-4369	5.5	21
107	Anode-Free Sodium Metal Batteries Based on Nanohybrid Core-Shell Templates. <i>Small</i> , 2019 , 15, e1901274	7.4	21
106	Synergistic catalytic effects of oxygen and nitrogen functional groups on active carbon electrodes for all-vanadium redox flow batteries. <i>RSC Advances</i> , 2017 , 7, 43227-43232	3.7	21
105	Polyaniline/Silver Nanoparticle-Doped Multiwalled Carbon Nanotube Composites. <i>Journal of Dispersion Science and Technology</i> , 2012 , 33, 750-755	1.5	21
104	Unique surface morphology of electrospun polystyrene fibers from an N,N-dimethylformamide solution. <i>Macromolecular Research</i> , 2005 , 13, 533-537	1.9	21
103	The effect of chitosan content on the crystallinity, thermal stability, and mechanical properties of bacterial cellulose-chitosan composites. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2009 , 223, 2225-2230	1.3	20
102	Sodium-ion supercapacitors based on nanoporous pyroproteins containing redox-active heteroatoms. <i>Journal of Power Sources</i> , 2016 , 329, 536-545	8.9	20
101	Pyroprotein-Derived Hard Carbon Fibers Exhibiting Exceptionally High Plateau Capacities for Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1185-1191	6.1	20
100	Pyrolytic Carbon Nanosheets for Ultrafast and Ultrastable Sodium-Ion Storage. <i>Small</i> , 2018 , 14, e17030431	7.1	19
99	Percolation of two-dimensional multiwall carbon nanotube networks. <i>Applied Physics Letters</i> , 2009 , 95, 134104	3.4	19
98	Dispersion of Pt Nanoparticle-Doped Reduced Graphene Oxide Using Aniline as a Stabilizer. <i>Materials</i> , 2012 , 5, 2927-2936	3.5	19
97	Poly(methyl methacrylate)/multiwalled carbon nanotube microspheres fabricated via in-situ dispersion polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 182-189	2.6	19
96	Catalytic Pyroprotein Seed Layers for Sodium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12401-12407	9.5	18
95	Enhanced mechanical properties of silk fibroin-based composite plates for fractured bone healing. <i>Fibers and Polymers</i> , 2013 , 14, 266-270	2	18

94	Solubility of 1-hexene in LLDPE synthesized by (2-MeInd) ₂ ZrCl ₂ /MAO and by Mg(OEt) ₂ /DIBP/TiCl ₄ /TEA. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 1566-1571	2.9	18
93	Synthesis and properties of poly(butylene succinate) with N-hexenyl side branches. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 2219-2226	2.9	18
92	Sericin-derived activated carbon-loaded alginate bead: An effective and recyclable natural polymer-based adsorbent for methylene blue removal. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 906-914	7.9	18
91	Sulfur-doped, reduced graphene oxide nanoribbons for sodium-ion batteries. <i>Materials Letters</i> , 2017 , 198, 106-109	3.3	17
90	Cellulose nanofiber-reinforced silk fibroin composite film with high transparency. <i>Fibers and Polymers</i> , 2014 , 15, 215-219	2	17
89	Carbon nanofibers prepared by the carbonization of self-assembled cellulose nanocrystals. <i>Macromolecular Research</i> , 2014 , 22, 753-756	1.9	17
88	Enhanced impact properties of polylactide by poly(lactide-b-butadiene-b-lactide) triblock copolymer. <i>Macromolecular Research</i> , 2011 , 19, 943-947	1.9	17
87	Preparation and characterization of electrospun poly(l-lactic acid-co-succinic acid-co-1,4-butane diol) fibrous membranes. <i>Macromolecular Research</i> , 2005 , 13, 73-79	1.9	17
86	Flexible Graphene Stacks for Sodium-Ion Storage. <i>ChemElectroChem</i> , 2017 , 4, 716-720	4.3	16
85	3D hierarchical porous carbons containing numerous nitrogen atoms as catalyst supports for PEMFCs. <i>Synthetic Metals</i> , 2012 , 162, 2337-2341	3.6	16
84	Dispersity and stability measurements of functionalized multiwalled carbon nanotubes in organic solvents. <i>Current Applied Physics</i> , 2009 , 9, e100-e103	2.6	16
83	Preparation and characterization of poly[(butylene succinate)-co-(butylene adipate)]/carbon nanotube-coated silk fiber composites. <i>Polymer International</i> , 2007 , 56, 1035-1039	3.3	16
82	Silk fibroin particles as templates for mineralization of calcium-deficient hydroxyapatite. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 2029-34	3.5	15
81	Transparent conducting films based on nanofibrous polymeric membranes and single-walled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 2864-2872	2.9	15
80	Understanding hydroscopic properties of silk fibroin and its use as a gate-dielectric in organic field-effect transistors. <i>Organic Electronics</i> , 2018 , 59, 213-219	3.5	15
79	Hierarchically nanoporous pyropolymer nanofibers for surface-induced sodium-ion storage. <i>Electrochimica Acta</i> , 2017 , 242, 38-46	6.7	14
78	Copolymerization of ethylene/nonconjugated dienes over a Bis(2-methyl indenyl) zirconium dichloride/methylaluminumoxane catalyst system. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 1048-1058	2.9	14
77	Critical role of silk fibroin secondary structure on the dielectric performances of organic thin-film transistors. <i>RSC Advances</i> , 2016 , 6, 5907-5914	3.7	13

76	Morphological effects of alkylated multiwalled carbon nanotubes on poly(L-lactic acid)-based composites. <i>Macromolecular Research</i> , 2010 , 18, 828-833	1.9	13
75	Thermal Properties of Poly(εCaprolactone)/Multiwalled Carbon Nanotubes Composites. <i>Advanced Composite Materials</i> , 2008 , 17, 157-166	2.8	13
74	Magnesiophilic Graphitic Carbon Nanosubstrate for Highly Efficient and Fast-Rechargeable Mg Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38754-38761	9.5	12
73	Fluorous-inorganic hybrid dielectric materials for solution-processed electronic devices. <i>New Journal of Chemistry</i> , 2015 , 39, 836-842	3.6	12
72	Enhanced dielectric properties of electrospun titanium dioxide/polyvinylidene fluoride nanofibrous composites. <i>Fibers and Polymers</i> , 2013 , 14, 1521-1525	2	12
71	Electrically conductive transparent films based on nylon 6 membranes and single-walled carbon nanotubes. <i>Current Applied Physics</i> , 2010 , 10, S468-S472	2.6	12
70	Multiwalled Carbon Nanotube-Reinforced Poly(vinyl chloride). <i>Macromolecular Symposia</i> , 2007 , 249-250, 259-264	0.8	12
69	Nanoconfinement effects of chemically reduced graphene oxide nanoribbons on poly(vinyl chloride). <i>Nanoscale</i> , 2018 , 10, 2025-2033	7.7	11
68	Nanoporous pyropolymer nanosheets fabricated from renewable bio-resources for supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 43, 158-163	6.3	11
67	Effects of fluoroethylene carbonate-induced solid-electrolyte-interface layers on carbon-based anode materials for potassium ion batteries. <i>Applied Surface Science</i> , 2021 , 547, 149193	6.7	11
66	High-toughness natural polymer nonwoven preforms inspired by silkworm cocoon structure. <i>International Journal of Biological Macromolecules</i> , 2019 , 127, 146-152	7.9	11
65	Promoting Helix-Rich Structure in Silk Fibroin Films through Molecular Interactions with Carbon Nanotubes and Selective Heating for Transparent Biodegradable Devices. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5441-5450	5.6	10
64	Amorphous carbon nanotube/MnO ₂ /graphene oxide ternary composite electrodes for electrochemical capacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 1765-8	1.3	9
63	Incorporation of multiwalled carbon nanotubes on the surface of polystyrene microspheres via In Situ suspension polymerization. <i>Macromolecular Research</i> , 2011 , 19, 227-232	1.9	9
62	Flow-Induced Liquid Crystalline Solutions Prepared from Aspect Ratio-Controlled Bacterial Cellulose Nanowhiskers. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 519, 141-148	0.5	9
61	Atomic-Distributed Coordination State of Metal-Phenolic Compounds Enabled Low Temperature Graphitization for High-Performance Multioriented Graphite Anode. <i>Small</i> , 2020 , 16, e2003104	11	8
60	Electrolyte-Dependent Sodium Ion Transport Behaviors in Hard Carbon Anode. <i>Small</i> , 2020 , 16, e20010531	11	8
59	Energy storage capabilities of nitrogen-enriched pyropolymer nanoparticles fabricated through rapid pyrolysis. <i>Journal of Power Sources</i> , 2016 , 331, 507-514	8.9	8

58	Polystyrene composites containing crosslinked polystyrene-multiwalled carbon nanotube balls. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3737-3744	2.9	7
57	Preparation of carbon nanotubes-incorporated polymeric microspheres for electrorheological fluids. <i>Current Applied Physics</i> , 2008 , 8, 807-809	2.6	7
56	Nitrogen-Rich Magnetic Bio-Activated Carbon from Sericin: A Fast Removable and Easily Separable Superadsorbent for Anionic Dye Removal. <i>Macromolecular Research</i> , 2020 , 28, 986-996	1.9	7
55	3D-structured organic-inorganic hybrid solid-electrolyte-interface layers for Lithium metal anode. <i>Energy Storage Materials</i> , 2021 , 37, 567-575	19.4	7
54	Quantitative characterization of a voltage-dependent pseudocapacitance on heteroatom-enriched nanoporous carbons. <i>Electrochimica Acta</i> , 2019 , 302, 71-77	6.7	6
53	Improvement in Barrier Properties Using a Large Lateral Size of Exfoliated Graphene Oxide. <i>Macromolecular Research</i> , 2020 , 28, 709-713	1.9	6
52	Surface-Modified Cellulose Nanocrystal-incorporated Poly(butylene succinate) Nanocomposites. <i>Fibers and Polymers</i> , 2018 , 19, 1395-1402	2	6
51	Sulfur-enriched, hierarchically nanoporous carbonaceous materials for sodium-ion storage. <i>Synthetic Metals</i> , 2015 , 210, 357-362	3.6	6
50	Microspherical poly(methyl methacrylate)/multiwalled carbon nanotube composites prepared via in situ dispersion polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 4045-8	1.3	6
49	Relationship between Multivalent Cation Charge Carriers and Organic Solvents on Nanoporous Carbons in 4V-Window Magnesium Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2021 , 11, 2101054	21.8	6
48	High-performance nanohybrid anode based on FeS ₂ nanocubes and nitrogen-rich graphene oxide nanoribbons for sodium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 81, 61-66	6.3	6
47	Nano-patching defects of reduced graphene oxide by cellulose nanocrystals in scalable polymer nanocomposites. <i>Carbon</i> , 2020 , 165, 18-25	10.4	5
46	High-performance Li-ion hybrid supercapacitors based on microporous pyropolymer nanoplates and orthorhombic Nb ₂ O ₅ nanocomposites. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 57, 284-289	6.3	5
45	Standalone macroporous graphitic nanowebs for vanadium redox flow batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 60, 85-90	6.3	5
44	Preparation of Aspect Ratio-Controlled Carbon Nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 510, 79/[1213]-86/[1220]	0.5	5
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38	Pyroprotein-based electronic textiles with high thermal durability. <i>Materials Today</i> , 2018 , 21, 944-950	21.8	4
37	Pentacene crystal formation on the surface of silk fibroin films. <i>Fibers and Polymers</i> , 2013 , 14, 2006-2009	2	4
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32	Corn Stem-Derived, Hierarchically Nanoporous Carbon as Electrode Material for Supercapacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 7729-7734	1.3	3
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29	Potassium-ion storage behavior of microstructure-engineered hard carbons. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2055-2063	13	3
28	High-performance solid-solution potassium-ion intercalation mechanism of multilayered turbostratic graphene nanosheets. <i>Journal of Energy Chemistry</i> , 2021 ,	12	3
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26	Synthesis and Electrorheological Response of Graphene Oxide/Polydiphenylamine Microsheet Composite Particles. <i>Polymers</i> , 2020 , 12,	4.5	3
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24	Effect of cross-linkable bacterial cellulose nanocrystals on the physicochemical properties of silk sericin films. <i>Polymer Testing</i> , 2021 , 97, 107161	4.5	3
23	Sodium metal hybrid capacitors based on nanostructured carbon materials. <i>Journal of Power Sources</i> , 2019 , 418, 218-224	8.9	3

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18	Waste Sawdust-Derived Nanoporous Carbon as a Positive Electrode for Lithium-Ion Storage. <i>Macromolecular Research</i> , 2020 , 28, 1204-1210	1.9	2
17	3D interconnected macrostructure based on nano-scale pyroprotein units for energy storage. <i>Electrochimica Acta</i> , 2016 , 222, 1887-1894	6.7	2
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15	Waste-induced pyrolytic carbon nanotube forest as a catalytic host electrode for high-performance aluminum metal anodes. <i>Chemical Engineering Journal</i> , 2022 , 437, 135416	14.7	2
14	High-Performance Asymmetric Li-Ion Pseudocapacitors Based on Pyroprotein Nanoweb. <i>ChemElectroChem</i> , 2017 , 4, 2079-2083	4.3	1
13	Synergistic combination of nanostructured sodium metal anode and capacitive cathode for advanced non-aqueous hybrid capacitors. <i>Applied Surface Science</i> , 2020 , 513, 145848	6.7	1
12	Preparation and Characterization of Poly(p-phenylene terephthalamide)/Multiwalled Carbon Nanotube Composites via in-situ Polymerization. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 492, 20/[384]-27/[391]	0.5	1
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