

Byeong-Su Kim

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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.

166 papers	9,607 citations	51 h-index	94 g-index
184 ext. papers	10,534 ext. citations	9.3 avg, IF	6.38 L-index

#	Paper	IF	Citations
166	High-power lithium batteries from functionalized carbon-nanotube electrodes. <i>Nature Nanotechnology</i> , 2010 , 5, 531-7	28.7	946
165	Layer-by-layer assembly of all carbon nanotube ultrathin films for electrochemical applications. <i>Journal of the American Chemical Society</i> , 2009 , 131, 671-9	16.4	557
164	Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. <i>Nature Photonics</i> , 2013 , 7, 732-738	33.9	447
163	Hydrogen-bonding layer-by-layer-assembled biodegradable polymeric micelles as drug delivery vehicles from surfaces. <i>ACS Nano</i> , 2008 , 2, 386-92	16.7	399
162	Transparent, flexible conducting hybrid multilayer thin films of multiwalled carbon nanotubes with graphene nanosheets. <i>ACS Nano</i> , 2010 , 4, 3861-8	16.7	285
161	Magnetomicelles: composite nanostructures from magnetic nanoparticles and cross-linked amphiphilic block copolymers. <i>Nano Letters</i> , 2005 , 5, 1987-91	11.5	263
160	Hybrid gold nanoparticle-reduced graphene oxide nanosheets as active catalysts for highly efficient reduction of nitroarenes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15431		194
159	Layer-by-Layer Assembly for Graphene-Based Multilayer Nanocomposites: Synthesis and Applications. <i>Chemistry of Materials</i> , 2015 , 27, 3785-3796	9.6	182
158	Highly controllable transparent and conducting thin films using layer-by-layer assembly of oppositely charged reduced graphene oxides. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3438-3442		181
157	Drug delivery by a self-assembled DNA tetrahedron for overcoming drug resistance in breast cancer cells. <i>Chemical Communications</i> , 2013 , 49, 2010-2	5.8	179
156	Highly Biocompatible Carbon Nanodots for Simultaneous Bioimaging and Targeted Photodynamic Therapy In Vitro and In Vivo. <i>Advanced Functional Materials</i> , 2014 , 24, 5781-5789	15.6	170
155	Ionic liquid modified graphene nanosheets anchoring manganese oxide nanoparticles as efficient electrocatalysts for Zn air batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 4148	35.4	170
154	Light-responsive micelles of spiropyran initiated hyperbranched polyglycerol for smart drug delivery. <i>Biomacromolecules</i> , 2014 , 15, 628-34	6.9	156
153	Hybrid multilayer thin film supercapacitor of graphene nanosheets with polyaniline: importance of establishing intimate electronic contact through nanoscale blending. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21092		154
152	Stable aqueous dispersion of reduced graphene nanosheets via non-covalent functionalization with conducting polymers and application in transparent electrodes. <i>Langmuir</i> , 2011 , 27, 2014-8	4	143
151	Layer-by-layer-assembled multilayer films for transcutaneous drug and vaccine delivery. <i>ACS Nano</i> , 2009 , 3, 3719-29	16.7	140
150	Hydrogen-bonded multilayer of pH-responsive polymeric micelles with tannic acid for surface drug delivery. <i>Chemical Communications</i> , 2009 , 4194-6	5.8	132

149	Mussel-inspired green synthesis of silver nanoparticles on graphene oxide nanosheets for enhanced catalytic applications. <i>Chemical Communications</i> , 2013 , 49, 3392-4	5.8	126
148	Multicomponent nanoparticles via self-assembly with cross-linked block copolymer surfactants. <i>Langmuir</i> , 2007 , 23, 2198-202	4	124
147	Hyperbranched double hydrophilic block copolymer micelles of poly(ethylene oxide) and polyglycerol for pH-responsive drug delivery. <i>Biomacromolecules</i> , 2012 , 13, 1190-6	6.9	117
146	Highly efficient inverted polymer light-emitting diodes using surface modifications of ZnO layer. <i>Nature Communications</i> , 2014 , 5, 4840	17.4	115
145	Hollow Capsules of Reduced Graphene Oxide Nanosheets Assembled on a Sacrificial Colloidal Particle. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3442-3445	6.4	106
144	Flexible Textile Strain Wireless Sensor Functionalized with Hybrid Carbon Nanomaterials Supported ZnO Nanowires with Controlled Aspect Ratio. <i>Advanced Functional Materials</i> , 2016 , 26, 6206-6214	15.6	100
143	Adsorption, photodegradation and antibacterial study of graphene/Fe ₃ O ₄ nanocomposite for multipurpose water purification application. <i>RSC Advances</i> , 2014 , 4, 28300-28308	3.7	99
142	Integrative Approach toward Uncovering the Origin of Photoluminescence in Dual Heteroatom-Doped Carbon Nanodots. <i>Chemistry of Materials</i> , 2016 , 28, 6840-6847	9.6	99
141	Bactericidal and virucidal ultrathin films assembled layer by layer from polycationic N-alkylated polyethylenimines and polyanions. <i>Biomaterials</i> , 2010 , 31, 4079-87	15.6	97
140	MAD (multiagent delivery) nanolayer: delivering multiple therapeutics from hierarchically assembled surface coatings. <i>Langmuir</i> , 2009 , 25, 14086-92	4	89
139	All-Star Polymer Multilayers as pH-Responsive Nanofilms. <i>Macromolecules</i> , 2009 , 42, 368-375	5.5	87
138	Layer-by-Layer Assembly: Recent Progress from Layered Assemblies to Layered Nanoarchitectonics. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2553-2566	4.5	85
137	Double Hydrophilic Block Copolymer Templated Au Nanoparticles with Enhanced Catalytic Activity toward Nitroarene Reduction. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11686-11693	3.8	84
136	Patterning nanodomains with orthogonal functionalities: solventless synthesis of self-sorting surfaces. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14424-5	16.4	84
135	Functionalized Nanocellulose-Integrated Heterolayered Nanomats toward Smart Battery Separators. <i>Nano Letters</i> , 2016 , 16, 5533-41	11.5	81
134	Cell Nucleus-Targeting Zwitterionic Carbon Dots. <i>Scientific Reports</i> , 2015 , 5, 18807	4.9	80
133	Encapsulated magnetic nanoparticles as supports for proteins and recyclable biocatalysts. <i>Bioconjugate Chemistry</i> , 2007 , 18, 183-9	6.3	80
132	Carbon-based layer-by-layer nanostructures: from films to hollow capsules. <i>Nanoscale</i> , 2011 , 3, 4515-31	7.7	78

131	Highly tunable charge transport in layer-by-layer assembled graphene transistors. <i>ACS Nano</i> , 2012 , 6, 2432-40	16.7	77
130	All-solid-state lithium-ion batteries with TiS ₂ nanosheets and sulphide solid electrolytes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10329-10335	13	76
129	Reversibly light-modulated dirac point of graphene functionalized with spiropyran. <i>ACS Nano</i> , 2012 , 6, 9207-13	16.7	72
128	Carbon Dots: Bottom-Up Syntheses, Properties, and Light-Harvesting Applications. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 586-598	4.5	71
127	Amine-Based Interfacial Molecules for Inverted Polymer-Based Optoelectronic Devices. <i>Advanced Materials</i> , 2015 , 27, 3553-9	24	69
126	Stretchable batteries with gradient multilayer conductors. <i>Science Advances</i> , 2019 , 5, eaaw1879	14.3	67
125	Highly tunable interfacial adhesion of glass fiber by hybrid multilayers of graphene oxide and aramid nanofiber. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3329-34	9.5	64
124	Inhibiting the shuttle effect in lithium-sulfur batteries using a layer-by-layer assembled ion-permselective separator. <i>RSC Advances</i> , 2014 , 4, 46940-46946	3.7	61
123	Covalent functionalization based heteroatom doped graphene nanosheet as a metal-free electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2013 , 5, 12255-60	7.7	61
122	Functional polyelectrolyte nanospaced MoS ₂ multilayers for enhanced photoluminescence. <i>Nano Letters</i> , 2014 , 14, 6456-62	11.5	60
121	Sentinel lymph node imaging by a fluorescently labeled DNA tetrahedron. <i>Biomaterials</i> , 2013 , 34, 5226-35	5.6	58
120	Electrospun nanofiber of hybrid manganese oxides for supercapacitor: Relevance to mixed inorganic interfaces. <i>Journal of Power Sources</i> , 2014 , 255, 335-340	8.9	54
119	Inherent charge-shifting polyelectrolyte multilayer blends: a facile route for tunable protein release from surfaces. <i>Biomacromolecules</i> , 2011 , 12, 2975-81	6.9	54
118	Electrophoretic deposition of aramid nanofibers on carbon fibers for highly enhanced interfacial adhesion at low content. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 482-489	8.4	53
117	Enlarging the d-spacing of graphite and polarizing its surface charge for driving lithium ions fast. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7600-7605	13	53
116	Interfacing living yeast cells with graphene oxide nanosheaths. <i>Macromolecular Bioscience</i> , 2012 , 12, 61-6	5.5	53
115	Interface-controlled synthesis of heterodimeric silver-carbon nanoparticles derived from polysaccharides. <i>ACS Nano</i> , 2014 , 8, 11377-85	16.7	51
114	Highly efficient gene silencing and bioimaging based on fluorescent carbon dots in vitro and in vivo. <i>Nano Research</i> , 2017 , 10, 503-519	10	50

113	Pattern Transfer Printing of Multiwalled Carbon Nanotube Multilayers and Application in Biosensors. <i>Chemistry of Materials</i> , 2010 , 22, 4791-4797	9.6	50
112	Graphene Multilayer Supported Gold Nanoparticles for Efficient Electrocatalysts Toward Methanol Oxidation. <i>Advanced Energy Materials</i> , 2012 , 2, 1510-1518	21.8	49
111	Thermoresponsive graphene nanosheets by functionalization with polymer brushes. <i>Polymer</i> , 2012 , 53, 316-323	3.9	48
110	Layer-by-Layer Assembly for Graphene-Based Multilayer Nanocomposites: The Field Manual. <i>Chemistry of Materials</i> , 2017 , 29, 69-79	9.6	46
109	Significant Performance Enhancement of Polymer Resins by Bioinspired Dynamic Bonding. <i>Advanced Materials</i> , 2017 , 29, 1703026	24	45
108	Layer-by-Layer Assembly of Polyoxometalates for Photoelectrochemical (PEC) Water Splitting: Toward Modular PEC Devices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40151-40161	9.5	45
107	Homogeneous, Coaxial Liquid Crystal Domain Growth from Carbon Nanotube Seeds. <i>Nano Letters</i> , 2003 , 3, 1665-1669	11.5	45
106	Utilizing the bioorthogonal base-pairing system of L-DNA to design ideal DNA nanocarriers for enhanced delivery of nucleic acid cargos. <i>Chemical Science</i> , 2014 , 5, 1533-1537	9.4	44
105	Redox-Degradable Biocompatible Hyperbranched Polyglycerols: Synthesis, Copolymerization Kinetics, Degradation, and Biocompatibility. <i>Macromolecules</i> , 2015 , 48, 600-609	5.5	44
104	Surface dipole enhanced instantaneous charge pair generation in triboelectric nanogenerator. <i>Nano Energy</i> , 2016 , 26, 360-370	17.1	43
103	A photo-cross-linkable polymeric binder for silicon anodes in lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 12625	3.7	43
102	Azide-alkyne Huisgen [3+2] cycloaddition using CuO nanoparticles. <i>Molecules</i> , 2012 , 17, 13235-53	4.8	41
101	RuO ₂ nanocluster as a 4-in-1 electrocatalyst for hydrogen and oxygen electrochemistry. <i>Nano Energy</i> , 2019 , 55, 49-58	17.1	41
100	Crab-on-a-Tree: All Biorenewable, Optical and Radio Frequency Transparent Barrier Nanocoating for Food Packaging. <i>ACS Nano</i> , 2019 , 13, 3796-3805	16.7	40
99	Mussel-inspired nitrogen-doped graphene nanosheet supported manganese oxide nanowires as highly efficient electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6167	13	39
98	Double locked silver-coated silicon nanoparticle/graphene core/shell fiber for high-performance lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2015 , 300, 351-357	8.9	38
97	Facile synthesis of hybrid graphene and carbon nanotubes as a metal-free electrocatalyst with active dual interfaces for efficient oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9603	13	37
96	Highly tunable aptasensing microarrays with graphene oxide multilayers. <i>Scientific Reports</i> , 2013 , 3, 3367	4.9	36

95	Hydrophobic Effects in the Critical Destabilization and Release Dynamics of Degradable Multilayer Films. <i>Chemistry of Materials</i> , 2009 , 21, 1108-1115	9.6	36
94	pH-Tunable Thermoresponsive PEO-Based Functional Polymers with Pendant Amine Groups. <i>ACS Macro Letters</i> , 2016 , 5, 1391-1396	6.6	36
93	One-pot synthesis of linear-hyperbranched amphiphilic block copolymers based on polyglycerol derivatives and their micelles. <i>Biomacromolecules</i> , 2013 , 14, 2171-8	6.9	35
92	A Directly Patternable, Click-Active Polymer Film via Initiated Chemical Vapor Deposition. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1648-1654	4.8	34
91	Multidimensional Thin Film Hybrid Electrodes with MoS Multilayer for Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8688-8695	9.5	33
90	Sweet nanodot for biomedical imaging: carbon dot derived from xylitol. <i>RSC Advances</i> , 2014 , 4, 23210	3.7	33
89	Plasmonic Transition via Interparticle Coupling of [email[protected]] CoreShell Nanostructures Sheathed in Double Hydrophilic Block Copolymer for High-Performance Polymer Solar Cell. <i>Chemistry of Materials</i> , 2015 , 27, 4789-4798	9.6	32
88	Self-Assembled Supramolecular Hybrid of Carbon Nanodots and Polyoxometalates for Visible-Light-Driven Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13434-13441	9.5	32
87	Ultrathin Supercapacitor Electrode Based on Reduced Graphene Oxide Nanosheets Assembled with Photo-Cross-Linkable Polymer: Conversion of Electrochemical Kinetics in Ultrathin Films. <i>Chemistry of Materials</i> , 2015 , 27, 7982-7989	9.6	32
86	Morphology Tunable Hybrid Carbon Nanosheets with Solvatochromism. <i>Advanced Materials</i> , 2017 , 29, 1701075	24	31
85	Atomistic simulation for coil-to-globule transition of poly(2-dimethylaminoethyl methacrylate). <i>Soft Matter</i> , 2015 , 11, 2423-33	3.6	31
84	Interface Engineering of Hematite with Nacre-like Catalytic Multilayers for Solar Water Oxidation. <i>ACS Nano</i> , 2019 , 13, 467-475	16.7	31
83	Tailorable Electrocatalytic 5-Hydroxymethylfurfural Oxidation and H ₂ Production: Architecture-Performance Relationship in Bifunctional Multilayer Electrodes. <i>ACS Nano</i> , 2020 , 14, 6812-6822	16.7	30
82	Flexible crystalline silicon radial junction photovoltaics with vertically aligned tapered microwires. <i>Energy and Environmental Science</i> , 2018 , 11, 641-647	35.4	30
81	Optical switching of the Dirac point in graphene multilayer field-effect transistors functionalized with spiropyran. <i>Chemical Communications</i> , 2012 , 48, 10978-80	5.8	30
80	Solid-state functionalization of graphene with amino acids toward water-dispersity: implications on a composite with polyaniline and its characteristics as a supercapacitor electrode material. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12526	13	28
79	Nonstop Monomer-to-Aramid Nanofiber Synthesis with Remarkable Reinforcement Ability. <i>Macromolecules</i> , 2019 , 52, 923-934	5.5	25
78	Kinetically enhanced pseudocapacitance of conducting polymer doped with reduced graphene oxide through a miscible electron transfer interface. <i>Nano Energy</i> , 2014 , 3, 1-9	17.1	24

77	Highly conductive reduced graphene oxide produced via pressure-assisted reduction at mild temperature for flexible and transparent electrodes. <i>Chemical Communications</i> , 2013 , 49, 4887-9	5.8	24
76	Self-powered triboelectric aptasensor for label-free highly specific thrombin detection. <i>Nano Energy</i> , 2016 , 30, 77-83	17.1	24
75	Versatile double hydrophilic block copolymer: dual role as synthetic nanoreactor and ionic and electronic conduction layer for ruthenium oxide nanoparticle supercapacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11598		23
74	Layer-by-layer assembly for photoelectrochemical nanoarchitectonics. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 65-77	4.6	21
73	Homogeneous Li deposition through the control of carbon dot-assisted Li-dendrite morphology for high-performance Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20325-20334	13	21
72	Beauty of lotus is more than skin deep: highly buoyant superhydrophobic films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7009-13	9.5	21
71	Graphene oxide nanosheet as a two-dimensional polyelectrolyte: pH-responsive behavior of a multilayered nanomembrane. <i>Journal of Membrane Science</i> , 2019 , 585, 191-198	9.6	20
70	Photoinduced Charge-Carrier Dynamics of Phototransistors Based on Perylene Diimide/Reduced Graphene Oxide Core/Shell p <i>n</i> Junction Nanowires. <i>Advanced Optical Materials</i> , 2015 , 3, 241-247	8.1	19
69	Mussel-Inspired Copolyether Loop with Superior Antifouling Behavior. <i>Macromolecules</i> , 2020 , 53, 3551-3562	35.2	19
68	Polymeric micelles based on photocleavable linkers tethered with a model drug. <i>Polymer</i> , 2014 , 55, 1436-1442	5.1	19
67	Bifunctional hydrous RuO nanocluster electrocatalyst embedded in carbon matrix for efficient and durable operation of rechargeable zinc-air batteries. <i>Scientific Reports</i> , 2017 , 7, 7150	4.9	19
66	Highly stable Au nanoparticles with double hydrophilic block copolymer templates: correlation between structure and stability. <i>Polymer Chemistry</i> , 2017 , 8, 4528-4537	4.9	18
65	Crosslinked, Glassy Styrenic Surfactants Stabilize Quantum Dots Against Environmental Extremes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6324-6327		17
64	Hydrothermal Synthesis of Composition- and Morphology-Tunable Polyimide-Based Microparticles. <i>ACS Macro Letters</i> , 2018 , 7, 1480-1485	6.6	17
63	Diffusion controlled multilayer electrocatalysts via graphene oxide nanosheets of varying sizes. <i>Nanoscale</i> , 2018 , 10, 16159-16168	7.7	16
62	Tailorable Degradation of pH-Responsive All-Polyether Micelles: Unveiling the Role of Monomer Structure and Hydrophilic/Hydrophobic Balance. <i>Macromolecules</i> , 2019 , 52, 5884-5893	5.5	16
61	A4 Paper Chemistry: Synthesis of a Versatile and Chemically Modifiable Cellulose Membrane. <i>ACS Nano</i> , 2020 , 14, 6173-6180	16.7	15
60	Bioinspired Catecholic Primers for Rigid and Ductile Dental Resin Composites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1520-1527	9.5	15

59	Multilayer thin film coatings capable of extended programmable drug release: application to human mesenchymal stem cell differentiation. <i>Drug Delivery and Translational Research</i> , 2012 , 2, 375-83	6.2	15
58	Direct Preparation of Highly Ordered L1 ₀ Phase FePt Nanoparticles and Their Shape-Assisted Assembly. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3042-3047	2	15
57	Tailorable degradation of pH-responsive all polyether micelles via copolymerisation with varying acetal groups. <i>Polymer Chemistry</i> , 2019 , 10, 582-592	4.9	14
56	Two-Dimensional Designer Nanochannels for Controllable Ion Transport in Graphene Oxide Nanomembranes with Tunable Sheet Dimensions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13116-13126	8.5	14
55	Time-resolved spectroscopy of the ensembled photoluminescence of nitrogen- and boron/nitrogen-doped carbon dots. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11673-11681	3.6	14
54	Tailoring Graphene Nanosheets for Highly Improved Dispersion Stability and Quantitative Assessment in Nonaqueous Solvent. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21595-602	9.5	14
53	Highly efficient layer-by-layer-assisted infiltration for high-performance and cost-effective fabrication of nanoelectrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17352-7	9.5	14
52	The power of the ring: a pH-responsive hydrophobic epoxide monomer for superior micelle stability. <i>Polymer Chemistry</i> , 2017 , 8, 7119-7132	4.9	13
51	Dual-Functional Electrolyte Additives toward Long-Cycling Lithium-Ion Batteries: Ecofriendly Designed Carbonate Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24479-24487	9.5	13
50	Transparent conducting films based on reduced graphene oxide multilayers for biocompatible neuronal interfaces. <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 403-8	4	13
49	A directly patternable click-active polymer film via initiated chemical vapor deposition (iCVD). <i>Thin Solid Films</i> , 2009 , 517, 3606-3611	2.2	13
48	pH-Responsive Amphiphilic Polyether Micelles with Superior Stability for Smart Drug Delivery. <i>Biomacromolecules</i> , 2021 , 22, 2043-2056	6.9	13
47	Unraveling the importance of controlled architecture in bimetallic multilayer electrode toward efficient electrocatalyst. <i>Nano Energy</i> , 2016 , 30, 658-666	17.1	12
46	Double-hydrophilic block copolymer nanoreactor for the synthesis of copper nanoparticles and for application in click chemistry. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6162-6	1.3	12
45	Modulating Charge Separation Efficiency of Water Oxidation Photoanodes with Polyelectrolyte-Assembled Interfacial Dipole Layers. <i>Advanced Functional Materials</i> , 2020 , 30, 1908492	15.6	12
44	Aramid Nanofiber Templated In Situ SNAr Polymerization for Maximizing the Performance of All-Organic Nanocomposites. <i>ACS Macro Letters</i> , 2020 , 9, 558-564	6.6	11
43	Reduction-Triggered Self-Cross-Linked Hyperbranched Polyglycerol Nanogels for Intracellular Delivery of Drugs and Proteins. <i>Macromolecular Bioscience</i> , 2018 , 18, e1700356	5.5	11
42	Anionic Polymerization of Azidoalkyl Glycidyl Ethers and Post-Polymerization Modification. <i>Macromolecules</i> , 2020 , 53, 355-366	5.5	11

41	Hyperbranched Copolymers Based on Glycidol and Amino Glycidyl Ether: Highly Biocompatible Polyamines Sheathed in Polyglycerols. <i>Biomacromolecules</i> , 2016 , 17, 3632-3639	6.9	10
40	Regulating Dynamics of Polyether-Based Triblock Copolymer Hydrogels by End-Block Hydrophobicity. <i>Macromolecules</i> , 2020 , 53, 10339-10348	5.5	9
39	Electrochemistry of Multilayer Electrodes: From the Basics to Energy Applications. <i>Accounts of Chemical Research</i> , 2021 , 54, 57-69	24.3	9
38	One-pot synthesis of hyperbranched polyamines based on novel amino glycidyl ether. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 4013-4019	2.5	7
37	Atomistic insight into the role of amine groups in thermoresponsive poly(2-dialkylaminoethyl methacrylate)s. <i>Polymer</i> , 2017 , 124, 219-225	3.9	7
36	Reverse Actuation of Polyelectrolyte Effect for Antifouling. <i>ACS Nano</i> , 2021 , 15, 6811-6828	16.7	7
35	Architecture-controlled synthesis of redox-degradable hyperbranched polyglycerol block copolymers and the structural implications of their degradation. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 1752-1761	2.5	7
34	Selective dispersion of single-walled carbon nanotubes by binaphthyl-based conjugated polymers: Integrated experimental and simulation approach. <i>Polymer</i> , 2016 , 96, 63-69	3.9	7
33	Theoretical Study on Enhancement of Sensing Capability of Plasmonic Dimer Au Nanoparticles with Amphiphilic Polymer Brushes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11068-11077	3.8	7
32	Versatile graphene oxide nanosheets via covalent functionalization and their applications. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4424-4444	7.8	7
31	Orbital hybridization mechanism for the enhanced photoluminescence in edge-functionalized sp ² carbon clusters. <i>Carbon</i> , 2016 , 109, 418-427	10.4	6
30	Stress Dissipation Encoded Silk Fibroin Electrode for the Athlete-Beneficial Silk Bioelectronics.. <i>Advanced Science</i> , 2022 , e2105420	13.6	6
29	Facile Synthesis of Poly(ethylene oxide)-Based Self-Healable Dynamic Triblock Copolymer Hydrogels. <i>Biomacromolecules</i> , 2020 , 21, 4913-4922	6.9	6
28	Mechanochemical Drug Conjugation via pH-Responsive Imine Linkage for Polyether Prodrug Micelles.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 2465-2474	4.1	6
27	Preparation of glycoside polymer micelles with antioxidant polyphenolic cores using alkylated poly(arbutin)s.. <i>RSC Advances</i> , 2019 , 9, 7777-7785	3.7	5
26	Rotaxane-like Characteristics of [2]Pseudorotaxane Complexes of β -Cyclodextrin and Dodecamethylene Threading Chain Derivatives with Cationic End Groups. <i>Chemistry Letters</i> , 2002 , 31, 336-337	1.7	5
25	Structure-tunable supraparticle assemblies of hollow cupric oxide sheathed with nanographenes. <i>Nanoscale Advances</i> , 2020 , 2, 1236-1244	5.1	4
24	Antimicrobial PEGtides: A Modular Poly(ethylene glycol)-Based Peptidomimetic Approach to Combat Bacteria. <i>ACS Nano</i> , 2021 , 15, 9143-9153	16.7	4

23	Atomically-dispersed cobalt ions on polyphenol-derived nanocarbon layers to improve charge separation, hole storage, and catalytic activity of water-oxidation photoanodes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13874-13882	13	4
22	Bifunctional Water Splitting Photoelectrocatalysts Using Flexible Organometallic Complex and Nanographene Multilayer Thin Films. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7103-7112	6.1	3
21	An immunoassay utilizing the DNA-coated polydiacetylene micelles as a signal generator. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 2675-8	2.9	3
20	Photodynamic Therapy: Highly Biocompatible Carbon Nanodots for Simultaneous Bioimaging and Targeted Photodynamic Therapy In Vitro and In Vivo (Adv. Funct. Mater. 37/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 5774-5774	15.6	3
19	Modulating charge carriers in carbon dots toward efficient solar-to-energy conversion 2021 , 3, 590-614		3
18	A recyclable metal-free catalytic system for the cationic ring-opening polymerization of glycidol under ambient conditions. <i>Green Chemistry</i> , 2022 , 24, 251-258	10	2
17	Geomimetic Hydrothermal Synthesis of Polyimide-Based Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	2
16	Mechanochemical Regulation of Unstable Acyl Azide: Ir(III)-Catalyzed Nitrene Transfer C-H Amidation under Solvent-Free Ball Milling Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8679-8685	8.3	2
15	Solvent-Free Mechanochemical Post-Polymerization Modification of Ionic Polymers. <i>ChemSusChem</i> , 2021 , 14, 3801-3805	8.3	2
14	Designing Cooperative Hydrogen Bonding in Polyethers with Carboxylic Acid Pendants. <i>Macromolecules</i> , 2021 , 54, 8478-8487	5.5	2
13	Molecular brushes with extreme grafted side chain densities. <i>Polymer</i> , 2012 , 53, 3462-3468	3.9	1
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10	Functionalized Carbon Nanodots for Biomedical Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , 2016 , 299-317	0.6	1
9	Metal-free bifunctional graphene oxide-based carbocatalysts toward reforming biomass from glucose to 5-hydroxymethylfurfural. <i>Nanoscale</i> , 2021 , 13, 10143-10151	7.7	1
8	Hydrolysis-Driven Viscoelastic Transition in Triblock Copolyether Hydrogels with Acetal Pendants.. <i>ACS Macro Letters</i> , 2021 , 10, 1080-1087	6.6	1
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