

Xuehong Lu

List of Publications by Year in descending order

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206
papers

13,784
citations

15466

65
h-index

24915

109
g-index

212
all docs

212
docs citations

212
times ranked

17600
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Materials and Polymer Electrolytes for Electrochromic Device Applications. <i>Advanced Materials</i> , 2012, 24, 4071-4096.	11.1	672
2	Carbon Fiber Aerogel Made from Raw Cotton: A Novel, Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>Advanced Materials</i> , 2013, 25, 5916-5921.	11.1	600
3	Assembly of Graphene Sheets into Hierarchical Structures for High-Performance Energy Storage. <i>ACS Nano</i> , 2011, 5, 3831-3838.	7.3	382
4	Morphology, polymorphism behavior and molecular orientation of electrospun poly(vinylidene fluoride)/poly(ethylene oxide) nanofibers. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3481-3490.	1.8	348
5	Dodecyl sulfate-induced fast faradic process in nickel cobalt oxide/reduced graphite oxide composite material and its application for asymmetric supercapacitor device. <i>Journal of Materials Chemistry</i> , 2012, 22, 23114.	6.7	338
6	Polydopamine Spheres as Active Templates for Convenient Synthesis of Various Nanostructures. <i>Small</i> , 2013, 9, 596-603.	5.2	323
7	Electrical and mechanical properties of expanded graphite-reinforced high-density polyethylene. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2781-2788.	1.3	282
8	Fe/N/C hollow nanospheres by Fe-dopamine complexation-assisted one-pot doping as nonprecious-metal electrocatalysts for oxygen reduction. <i>Nanoscale</i> , 2015, 7, 1501-1509.	2.8	242
9	Some recent developments of polyhedral oligomeric silsesquioxane (POSS)-based polymeric materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 2775-2782.	6.7	237
10	A Biomimetic Approach to Enhancing Interfacial Interactions: Polydopamine-Coated Clay as Reinforcement for Epoxy Resin. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3026-3032.	4.0	236
11	FeNi alloys encapsulated in N-doped CNTs-tangled porous carbon fibers as highly efficient and durable bifunctional oxygen electrocatalyst for rechargeable zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118344.	10.8	217
12	Highly electrically conductive layered carbon derived from polydopamine and its functions in SnO ₂ -based lithium ion battery anodes. <i>Chemical Communications</i> , 2012, 48, 10316.	2.2	209
13	Self-Assembly-Induced Alternately Stacked Single-Layer MoS ₂ and N-doped Graphene: A Novel van der Waals Heterostructure for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2372-2379.	4.0	202
14	Carbon Microbelt Aerogel Prepared by Waste Paper: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>Small</i> , 2014, 10, 3544-3550.	5.2	196
15	FeCo/FeCoNi/N-doped carbon nanotubes grafted polyhedron-derived hybrid fibers as bifunctional oxygen electrocatalysts for durable rechargeable zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 26-36.	10.8	183
16	From Waste to Functional Additive: Toughening Epoxy Resin with Lignin. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5810-5817.	4.0	172
17	Silicon nanoparticles encapsulated in hollow graphitized carbon nanofibers for lithium ion battery anodes. <i>Nanoscale</i> , 2013, 5, 2967.	2.8	164
18	Ultralight and Highly Elastic Graphene/Lignin-Derived Carbon Nanocomposite Aerogels with Ultrahigh Electromagnetic Interference Shielding Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8205-8213.	4.0	160

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19	Ultralight and Flexible Polyurethane/Silver Nanowire Nanocomposites with Unidirectional Pores for Highly Effective Electromagnetic Shielding. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32211-32219.	4.0	158
20	Thin MoS ₂ Nanoflakes Encapsulated in Carbon Nanofibers as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6392-6398.	4.0	157
21	Electrospinning of Polyvinylidene Difluoride with Carbon Nanotubes: Synergistic Effects of Extensional Force and Interfacial Interaction on Crystalline Structures. <i>Langmuir</i> , 2008, 24, 13621-13626.	1.6	146
22	Enhanced photoelectrochemical water-splitting effect with a bent ZnO nanorod photoanode decorated with Ag nanoparticles. <i>Nanotechnology</i> , 2012, 23, 235401.	1.3	146
23	Biodegradable and renewable poly(lactide)-lignin composites: synthesis, interface and toughening mechanism. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3699-3709.	5.2	144
24	Oxidation-Etching Preparation of MnO ₂ Tubular Nanostructures for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2769-2774.	4.0	139
25	Reinforcement of Polyether Polyurethane with Dopamine-Modified Clay: The Role of Interfacial Hydrogen Bonding. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4571-4578.	4.0	136
26	Lignin-assisted direct exfoliation of graphite to graphene in aqueous media and its application in polymer composites. <i>Carbon</i> , 2015, 83, 188-197.	5.4	123
27	Understanding the Synergistic Effects of Cobalt Single Atoms and Small Nanoparticles: Enhancing Oxygen Reduction Reaction Catalytic Activity and Stability for Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2104735.	7.8	123
28	Electrical conductivity of polyaniline-dodecylbenzene sulphonic acid complex: thermal degradation and its mechanism. <i>Synthetic Metals</i> , 2002, 128, 167-178.	2.1	118
29	Covalently Bonded Polyaniline-TiO ₂ Hybrids: A Facile Approach to Highly Stable Anodic Electrochromic Materials with Low Oxidation Potentials. <i>Chemistry of Materials</i> , 2010, 22, 255-260.	3.2	118
30	Morphology, thermal and mechanical properties of nylon 12/organoclay nanocomposites prepared by melt compounding. <i>Polymer International</i> , 2005, 54, 456-464.	1.6	115
31	Thermal conductivity of boron nitride-filled thermoplastics: Effect of filler characteristics and composite processing conditions. <i>Polymer Composites</i> , 2005, 26, 778-790.	2.3	112
32	Tailoring Surface Hydrophilicity of Porous Electrospun Nanofibers to Enhance Capillary and Push-Pull Effects for Moisture Wicking. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14087-14095.	4.0	108
33	A review on the mechanical methods for evaluating coating adhesion. <i>Acta Mechanica</i> , 2014, 225, 431-452.	1.1	107
34	Polydopamine-assisted decoration of ZnO nanorods with Ag nanoparticles: an improved photoelectrochemical anode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5045-5052.	5.2	104
35	Doping polysulfone ultrafiltration membrane with TiO ₂ -PDA nanohybrid for simultaneous self-cleaning and self-protection. <i>Journal of Membrane Science</i> , 2017, 532, 20-29.	4.1	104
36	Non-Volatile Polymer Electrolyte Based on Poly(propylene carbonate), Ionic Liquid, and Lithium Perchlorate for Electrochromic Devices. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7783-7789.	1.2	103

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37	A statistical experimental study of the injection molding of optical lenses. <i>Journal of Materials Processing Technology</i> , 2001, 113, 189-195.	3.1	102
38	Stress-induced structural changes in electrospun polyvinylidene difluoride nanofibers collected using a modified rotating disk. <i>Polymer</i> , 2008, 49, 4196-4203.	1.8	100
39	Polydopamine-coated graphene as multifunctional nanofillers in polyurethane. <i>RSC Advances</i> , 2013, 3, 6377.	1.7	97
40	Transition-Metal-Ion-Mediated Polymerization of Dopamine: Mussel-Inspired Approach for the Facile Synthesis of Robust Transition-Metal Nanoparticle-Graphene Hybrids. <i>Chemistry - A European Journal</i> , 2014, 20, 7776-7783.	1.7	95
41	Water-Processable Polyaniline with Covalently Bonded Single-Walled Carbon Nanotubes: Enhanced Electrochromic Properties and Impedance Analysis. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 782-788.	4.0	94
42	Simultaneous catalyzing and reinforcing effects of imidazole-functionalized graphene in anhydride-cured epoxies. <i>Journal of Materials Chemistry</i> , 2012, 22, 18395.	6.7	92
43	Synthesis, Electronic, and Emission Spectroscopy, and Electrochromic Characterization of Azulene-Fluorene Conjugated Oligomers and Polymers. <i>Macromolecules</i> , 2009, 42, 5534-5544.	2.2	91
44	Complexes of Polydopamine-Modified Clay and Ferric Ions as the Framework for Pollutant-Absorbing Supramolecular Hydrogels. <i>Langmuir</i> , 2013, 29, 1238-1244.	1.6	88
45	Biomass-based honeycomb-like architectures for preparation of robust carbon foams with high electromagnetic interference shielding performance. <i>Carbon</i> , 2018, 140, 227-236.	5.4	87
46	Carbon/SnO ₂ /carbon core/shell/shell hybrid nanofibers: tailored nanostructure for the anode of lithium ion batteries with high reversibility and rate capacity. <i>Nanoscale</i> , 2012, 4, 525-530.	2.8	86
47	Epoxy/polyhedral oligomeric silsesquioxane (POSS) hybrid networks cured with an anhydride: Cure kinetics and thermal properties. <i>Polymer</i> , 2007, 48, 5671-5680.	1.8	85
48	Thermal degradation of electrical conductivity of polyacrylic acid doped polyaniline: effect of molecular weight of the dopants. <i>Synthetic Metals</i> , 2003, 138, 429-440.	2.1	84
49	Interfacial control and carrier tuning of carbon nanotube/polyaniline composites for high thermoelectric performance. <i>Carbon</i> , 2018, 136, 292-298.	5.4	82
50	Simultaneous Enhancements of UV Resistance and Mechanical Properties of Polypropylene by Incorporation of Dopamine-Modified Clay. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1302-1309.	4.0	80
51	Covalently bonded polyaniline/fullerene hybrids with coral-like morphology for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2012, 85, 235-242.	2.6	79
52	Lignin-assisted exfoliation of molybdenum disulfide in aqueous media and its application in lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 9919-9926.	2.8	79
53	Crystalline morphology and isothermal crystallization kinetics of poly(ethylene terephthalate)/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1381-1388.	1.3	78
54	Layer-by-Layer Assembly of PEDOT:PSS and WO ₃ Nanoparticles: Enhanced Electrochromic Coloration Efficiency and Mechanism Studies by Scanning Electrochemical Microscopy. <i>Electrochimica Acta</i> , 2015, 174, 57-65.	2.6	78

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55	One-Pot Synthesis of Fe(III)-Polydopamine Complex Nanospheres: Morphological Evolution, Mechanism, and Application of the Carbonized Hybrid Nanospheres in Catalysis and Zn-Air Battery. <i>Langmuir</i> , 2016, 32, 9265-9275.	1.6	78
56	Aqueous-Only, Green Route to Self-Healable, UV-Resistant, and Electrically Conductive Polyurethane/Graphene/Lignin Nanocomposite Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3148-3157.	3.2	76
57	Alternately stacked metallic 1T-MoS ₂ /polyaniline heterostructure for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 330, 462-469.	6.6	75
58	Lightweight flexible carbon nanotube/polyaniline films with outstanding EMI shielding properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8694-8698.	2.7	75
59	One-pot sequential electrochemical deposition of multilayer poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonic acid)/tungsten trioxide hybrid films and their enhanced electrochromic properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2708-2717.	5.2	74
60	Integration of inorganic nanostructures with polydopamine-derived carbon: tunable morphologies and versatile applications. <i>Nanoscale</i> , 2016, 8, 1770-1788.	2.8	74
61	Porous polyaniline/carbon nanotube composite electrode for supercapacitors with outstanding rate capability and cyclic stability. <i>Composites Part B: Engineering</i> , 2019, 165, 671-678.	5.9	72
62	Triple-shape properties of star-shaped POSS-polycaprolactone polyurethane networks. <i>Soft Matter</i> , 2012, 8, 965-972.	1.2	71
63	Highly stretchable, sensitive strain sensors with a wide linear sensing region based on compressed anisotropic graphene foam/polymer nanocomposites. <i>Nanoscale</i> , 2017, 9, 17396-17404.	2.8	70
64	Highly conductive graphene by low-temperature thermal reduction and in situ preparation of conductive polymer nanocomposites. <i>Nanoscale</i> , 2012, 4, 4968.	2.8	69
65	The dopamine-VI ^{VI} complexation-assisted large-scale aqueous synthesis of a single-layer MoS ₂ /carbon sandwich structure for ultrafast, long-life lithium-ion batteries. <i>Chemical Communications</i> , 2014, 50, 9672-9675.	2.2	69
66	Morphology, thermal, and rheological behavior of nylon 11/multi-walled carbon nanotube nanocomposites prepared by melt compounding. <i>Polymer Engineering and Science</i> , 2009, 49, 1063-1068.	1.5	66
67	Mesoporous zinc ferrite/graphene composites: Towards ultra-fast and stable anode for lithium-ion batteries. <i>Carbon</i> , 2014, 79, 493-499.	5.4	65
68	MoS ₂ Nanosheets Hosted in Polydopamine-Derived Mesoporous Carbon Nanofibers as Lithium-Ion Battery Anodes: Enhanced MoS ₂ Capacity Utilization and Underlying Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24279-24287.	4.0	65
69	Enhanced Electrochromic Switching in Multilayer Thin Films of Polyaniline-Tethered Silsesquioxane Nanocage. <i>Chemistry of Materials</i> , 2009, 21, 4434-4441.	3.2	64
70	Polymer/MOF-derived multilayer fibrous membranes for moisture-wicking and efficient capturing both fine and ultrafine airborne particles. <i>Separation and Purification Technology</i> , 2020, 235, 116183.	3.9	64
71	Layer-by-layer assembled sulfonated-graphene/polyaniline nanocomposite films: enhanced electrical and ionic conductivities, and electrochromic properties. <i>RSC Advances</i> , 2012, 2, 10537.	1.7	62
72	Polydopamine-assisted attachment of β -cyclodextrin on porous electrospun fibers for water purification under highly basic condition. <i>Chemical Engineering Journal</i> , 2015, 270, 101-109.	6.6	62

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73	Materials design towards sport textiles with low-friction and moisture-wicking dual functions. <i>Materials and Design</i> , 2015, 88, 82-87.	3.3	62
74	Tunable crack propagation behavior in carbon fiber reinforced plastic laminates with polydopamine and graphene oxide treated fibers. <i>Materials and Design</i> , 2017, 113, 68-75.	3.3	62
75	Layer-by-Layer Assembled Solid Polymer Electrolyte for Electrochromic Devices. <i>Chemistry of Materials</i> , 2011, 23, 2142-2149.	3.2	61
76	Rapid one-pot electrodeposition of polyaniline/manganese dioxide hybrids: a facile approach to stable high-performance anodic electrochromic materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1758-1766.	2.7	60
77	Star-like polyaniline prepared from octa(aminophenyl) silsesquioxane: Enhanced electrochromic contrast and electrochemical stability. <i>Electrochimica Acta</i> , 2008, 53, 3523-3530.	2.6	59
78	Robust Lignin-Based Aerogel Filters: High-Efficiency Capture of Ultrafine Airborne Particulates and the Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6959-6968.	3.2	59
79	Electrofluorochromic detection of cyanide anions using a benzothiadiazole-containing conjugated copolymer. <i>Chemical Communications</i> , 2014, 50, 655-657.	2.2	58
80	Black-to-transmissive electrochromism of azulene-based donor-acceptor copolymers complemented by poly(4-styrene sulfonic acid)-doped poly(3,4-ethylenedioxythiophene). <i>Organic Electronics</i> , 2013, 14, 2748-2755.	1.4	57
81	Conductivities enhancement of poly(3,4-ethylenedioxythiophene)/poly(styrene sulfonate) transparent electrodes with diol additives. <i>Polymer Bulletin</i> , 2013, 70, 237-247.	1.7	57
82	Effects of clay on polymorphism of polypropylene in polypropylene/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 1810-1816.	2.4	56
83	Polyhedral oligomeric silsesquioxanes tethered with perfluoroalkylthioether corner groups: Facile synthesis and enhancement of hydrophobicity of their polymer blends. <i>Journal of Materials Chemistry</i> , 2009, 19, 4740.	6.7	56
84	Lignin-derived carbon nanosheets for high-capacitance supercapacitors. <i>RSC Advances</i> , 2017, 7, 48537-48543.	1.7	55
85	Synthesis and Self-Assembly of Donor-Spacer-Acceptor Molecules. Liquid Crystals Formed by Single-Component π -Complexes via Intermolecular Hydrogen-Bonding Interaction. <i>Macromolecules</i> , 2005, 38, 1684-1690.	2.2	54
86	High-Contrast Electrochromic Thin Films via Layer-by-Layer Assembly of Starlike and Sulfonated Polyaniline. <i>Chemistry of Materials</i> , 2010, 22, 6085-6091.	3.2	54
87	Ultrafast-Freezing-Assisted Mild Preparation of Biomass-Derived, Hierarchically Porous, Activated Carbon Aerogels for High-Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 403-411.	3.2	53
88	Enhancement of Electrochromic Contrast by Tethering Conjugated Polymer Chains onto Polyhedral Oligomeric Silsesquioxane Nanocages. <i>Macromolecular Rapid Communications</i> , 2007, 28, 281-285.	2.0	52
89	A high throughput method for preparation of highly conductive functionalized graphene and conductive polymer nanocomposites. <i>RSC Advances</i> , 2012, 2, 2208.	1.7	52
90	Novel Glassy Tetra(N-alkyl-3-bromocarbazole-6-yl)silanes as Building Blocks for Efficient and Nonaggregating Blue-Light-Emitting Tetrahedral Materials. <i>Organic Letters</i> , 2005, 7, 2829-2832.	2.4	51

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91	Synthesis of Ultrahighly Electron-Deficient Pyrrolo[3,4- <i>d</i>]pyridazine-5,7-dione by Inverse Electron Demand Diels-Alder Reaction and Its Application as Electrochromic Materials. <i>Organic Letters</i> , 2014, 16, 6386-6389.	2.4	51
92	Facile synthesis of porous CoFe ₂ O ₄ nanosheets for lithium-ion battery anodes with enhanced rate capability and cycling stability. <i>RSC Advances</i> , 2014, 4, 27488-27492.	1.7	51
93	Sheet-Like Lignin Particles as Multifunctional Fillers in Polypropylene. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4997-5004.	3.2	51
94	Covalent bonding of polyaniline on fullerene: Enhanced electrical, ionic conductivities and electrochromic performances. <i>Electrochimica Acta</i> , 2012, 67, 194-200.	2.6	48
95	A biomimetic approach to improve the dispersibility, interfacial interactions and toughening effects of carbon nanofibers in epoxy composites. <i>Composites Part B: Engineering</i> , 2017, 113, 197-205.	5.9	48
96	Polydopamine-assisted synthesis of hollow NiCo ₂ O ₄ nanospheres as high-performance lithium ion battery anodes. <i>RSC Advances</i> , 2014, 4, 37928.	1.7	46
97	Nano-hybrid luminescent dot: synthesis, characterization and optical properties. <i>Journal of Materials Chemistry</i> , 2006, 16, 829-836.	6.7	45
98	Graphene nanoscroll/nanosheet aerogels with confined SnS ₂ nanosheets: simultaneous wrapping and bridging for high-performance lithium-ion battery anodes. <i>Electrochimica Acta</i> , 2018, 278, 156-164.	2.6	45
99	Dopamine-assisted one-pot synthesis of zinc ferrite-embedded porous carbon nanospheres for ultrafast and stable lithium ion batteries. <i>Chemical Communications</i> , 2014, 50, 14597-14600.	2.2	44
100	Poly(vinylidene fluoride) nanofibrous mats with covalently attached SiO ₂ nanoparticles as an ionic liquid host: enhanced ion transport for electrochromic devices and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16040-16049.	5.2	43
101	High ionic conductivity P(VDF-TrFE)/PEO blended polymer electrolytes for solid electrochromic devices. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13319.	1.3	42
102	Highly Stable and Rapid Switching Electrochromic Thin Films Based on Metal-Organic Frameworks with Redox-Active Triphenylamine Ligands. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7442-7450.	4.0	42
103	Polydopamine-derived porous nanofibers as host of ZnFe ₂ O ₄ nanoneedles: towards high-performance anodes for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 13315-13323.	1.7	41
104	Thermal conductivity, electrical resistivity, mechanical, and rheological properties of thermoplastic composites filled with boron nitride and carbon fiber. <i>Polymer Composites</i> , 2005, 26, 66-73.	2.3	40
105	Thermally Stable Blue-Light-Emitting Hybrid Organic-Inorganic Polymers Derived from Cyclotriphosphazene. <i>Macromolecules</i> , 2008, 41, 9624-9636.	2.2	40
106	The characteristics and formation mechanisms of emissions from thermal decomposition of 3D printer polymer filaments. <i>Science of the Total Environment</i> , 2019, 692, 984-994.	3.9	40
107	Star-like polyurethane hybrids with functional cubic silsesquioxanes: Preparation, morphology, and thermomechanical properties. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4602-4616.	2.5	39
108	Electrostatic force-driven anchoring of Ni(OH) ₂ nanocrystallites on single-layer MoS ₂ for high-performance asymmetric hybrid supercapacitors. <i>Electrochimica Acta</i> , 2019, 320, 134591.	2.6	39

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109	A Comparative Study on Luminescent Copolymers of Fluorene and Carbazole with Conjugated or $\hat{\text{T}}\text{-Si}$ Interrupted Structures: A Steric Effects. <i>Macromolecules</i> , 2006, 39, 1397-1402.	2.2	38
110	A complementary electrochromic device based on polyaniline-tethered polyhedral oligomeric silsesquioxane and tungsten oxide. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 625-629.	3.0	38
111	Polymer-Assisted Fabrication of Silver Nanowire Cellular Monoliths: Toward Hydrophobic and Ultraflexible High-Performance Electromagnetic Interference Shielding Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38584-38592.	4.0	38
112	Catalytic and reinforcing effects of polyhedral oligomeric silsesquioxane (POSS)-imidazolium modified clay in an anhydride-cured epoxy. <i>Polymer</i> , 2011, 52, 1975-1982.	1.8	37
113	A highly bendable transparent electrode for organic electrochromic devices. <i>Organic Electronics</i> , 2019, 66, 86-93.	1.4	36
114	Synthesis and characterisation of main-chain hydrogen-bonded supramolecular liquid crystalline complexes formed by azo-containing compounds. <i>Liquid Crystals</i> , 2008, 35, 241-251.	0.9	33
115	A complementary electrochromic device based on polyaniline tethered polyhedral oligomeric silsesquioxane and poly(3,4-ethylenedioxythiophene)/poly(4-styrene sulfonic acid). <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2113-2117.	3.0	32
116	Chemically cross-linked ultrathin electrospun poly(vinylidene fluoride-co-hexafluoropropylene) nanofibrous mats as ionic liquid host in electrochromic devices. <i>Polymer</i> , 2014, 55, 1520-1526.	1.8	32
117	Polymorphism Behavior of Poly(ethylene naphthalate)/Clay Nanocomposites: A Role of Clay Surface Modification. <i>Langmuir</i> , 2007, 23, 1701-1710.	1.6	31
118	Zinc ferrite nanorods coated with polydopamine-derived carbon for high-rate lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 146, 464-471.	2.6	31
119	A generic approach for preparing core-shell carbon-metal oxide nanofibers: morphological evolution and its mechanism. <i>Chemical Communications</i> , 2010, 46, 8773.	2.2	30
120	Sulfonic Acid- and Lithium Sulfonate-Grafted Poly(Vinylidene Fluoride) Electrospun Mats As Ionic Liquid Host for Electrochromic Device and Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16548-16557.	4.0	29
121	A nanocrystalline tungsten oxide electrochromic coating with excellent cycling stability prepared via a complexation-assisted sol-gel method. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8041-8051.	2.7	29
122	Facile preparation of cross-linked lignin for efficient adsorption of dyes and heavy metal ions. <i>Reactive and Functional Polymers</i> , 2019, 143, 104336.	2.0	29
123	Ultrahigh electron-deficient pyrrolo-acenaphtho-pyridazine-dione based donor-acceptor conjugated polymers for electrochromic applications. <i>Polymer Chemistry</i> , 2015, 6, 7570-7579.	1.9	28
124	Electrospun dual-layer mats with covalently bonded ZnO nanoparticles for moisture wicking and antibacterial textiles. <i>Materials and Design</i> , 2017, 134, 54-63.	3.3	28
125	Mussel-inspired approach to cross-linked functional 3D nanofibrous aerogels for energy-efficient filtration of ultrafine airborne particles. <i>Applied Surface Science</i> , 2019, 479, 700-708.	3.1	28
126	Toward Electrochromic Device Using Solid Electrolyte with Polar Polymer Host. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8006-8010.	1.2	27

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127	Thermal kinetics of montmorillonite nanoclay/maleic anhydride-modified polypropylene nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 17-25.	2.0	26
128	Polyaniline nanoparticles doped with star-like poly(styrene sulfonate): Synthesis and electrochromic properties. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 141-147.	3.0	26
129	Near-Infrared Responsive Conjugated Polymers to 1.5 μ m and Beyond: Synthesis and Electrochromic Switching Application. <i>Macromolecular Rapid Communications</i> , 2013, 34, 431-436.	2.0	26
130	One-pot synthesis of polydopamine-Zn complex antifouling coatings on membranes for ultrafiltration under harsh conditions. <i>RSC Advances</i> , 2016, 6, 103390-103398.	1.7	26
131	Facile preparation of aqueous suspensions of WO ₃ /sulfonated PEDOT hybrid nanoparticles for electrochromic applications. <i>Chemical Communications</i> , 2016, 52, 9379-9382.	2.2	26
132	Deformation mechanisms of nanoclay-reinforced maleic anhydride-modified polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2759-2768.	2.4	25
133	One-dimensional carbon-SnO ₂ and SnO ₂ nanostructures via single-spinneret electrospinning: tunable morphology and the underlying mechanism. <i>Journal of Materials Chemistry</i> , 2011, 21, 15928.	6.7	25
134	Toughening of epoxies by covalently anchoring triazole-functionalized stacked-cup carbon nanofibers. <i>Composites Science and Technology</i> , 2013, 85, 1-9.	3.8	25
135	Electrospun poly(vinylidene fluoride) copolymer/octahydroxy-polyhedral oligomeric silsesquioxane nanofibrous mats as ionic liquid host: enhanced salt dissociation and its function in electrochromic device. <i>Electrochimica Acta</i> , 2014, 146, 224-230.	2.6	24
136	Self-Assembly Behaviors of Telechelic Poly(styrene-ran-sodium styrenesulfonate) with Polyhedral Oligomeric Silsesquioxane as End Groups. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1929-1935.	1.2	23
137	Thermal stability of ionic liquid-loaded electrospun poly(vinylidene fluoride) membranes and its influences on performance of electrochromic devices. <i>Journal of Membrane Science</i> , 2011, 376, 283-289.	4.1	23
138	Nanocups-on-microtubes: a unique host towards high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15191-15199.	5.2	23
139	Nacre-like composite films based on mussel-inspired γ -glut TM and nanoclay. <i>RSC Advances</i> , 2014, 4, 1425-1431.	1.7	23
140	Multi-walled Carbon Nanotubes Modified ZnO Nanorods: a Photoanode for Photoelectrochemical Cell. <i>Electrochimica Acta</i> , 2014, 143, 188-195.	2.6	23
141	Enhancement of electrochromic contrast by tethering polyaniline onto cyclotriphosphazene. <i>European Polymer Journal</i> , 2009, 45, 772-778.	2.6	22
142	Polymorphism of electrospun polyvinylidene difluoride/carbon nanotube (CNT) nanocomposites: Synergistic effects of CNT surface chemistry, extensional force and supercritical carbon dioxide treatment. <i>Polymer</i> , 2012, 53, 5097-5102.	1.8	22
143	Electrofluorochromic Detection of Cyanide Anions Using a Nanoporous Polymer Electrode and the Detection Mechanism. <i>Chemistry - A European Journal</i> , 2014, 20, 13226-13233.	1.7	22
144	Self-Assembly-Assisted Facile Synthesis of MoS ₂ -Based Hybrid Tubular Nanostructures for Efficient Bifunctional Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23731-23739.	4.0	22

#	ARTICLE	IF	CITATIONS
145	Overcome the Conflict between Strength and Toughness in Poly(lactide) Nanocomposites through Tailoring Matrix-Filler Interface. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800047.	2.0	22
146	Intermolecular Interaction in Multicomponent Supramolecular Complexes through Hydrogen-Bonding Association. <i>Macromolecules</i> , 2002, 35, 8846-8851.	2.2	21
147	Facile fabrication of polystyrene/carbon nanotube composite nanospheres with core-shell structure via self-assembly. <i>Polymer</i> , 2010, 51, 3715-3721.	1.8	21
148	Packing Behaviors of Structurally Different Polyhedral Oligomeric Silsesquioxane-Imidazolium Surfactants in Clay. <i>Journal of Physical Chemistry B</i> , 2010, 114, 207-214.	1.2	21
149	Investigation of thermomechanical properties and matrix-filler interaction on polyimide/graphene oxide composites. <i>Polymer Engineering and Science</i> , 2012, 52, 2530-2536.	1.5	21
150	Highly porous polymer nanofibrous aerogels cross-linked via spontaneous inter-fiber stereocomplexation and their potential for capturing ultrafine airborne particles. <i>Polymer</i> , 2019, 179, 121649.	1.8	21
151	Synthesis of main-chain hydrogen-bonded supramolecular liquid crystalline complexes: The effects of spacer on thermal behavior of mesophase. <i>Journal of Polymer Science Part A</i> , 2005, 43, 4731-4743.	2.5	20
152	pH-Responsive Poly(methacrylic acid)-Grafted Hollow Silica Vesicles. <i>Chemistry - A European Journal</i> , 2011, 17, 2504-2509.	1.7	20
153	Temperature and pH dual-responsive behavior of polyhedral oligomeric silsesquioxane-based star-block copolymer with poly(acrylic acid-block-N-isopropylacrylamide) as arms. <i>Colloid and Polymer Science</i> , 2012, 290, 507-515.	1.0	20
154	Metal-Organic Framework-Based Flexible Devices with Simultaneous Electrochromic and Electrofluorochromic Functions. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1489-1495.	2.0	20
155	Sustainable-Macromolecule-Assisted Preparation of Cross-Linked, Ultralight, Flexible Graphene Aerogel Sensors toward Low-Frequency Strain/Pressure to High-Frequency Vibration Sensing. <i>Small</i> , 2022, 18, e2202047.	5.2	20
156	Crystallization and Phase Behaviors of Multicomponent Supramolecular Complexes through Hydrogen-Bonding Association. <i>Macromolecules</i> , 2003, 36, 5195-5200.	2.2	19
157	Robust microhoneycomb-like nanofibrous aerogels derived from cellulose and lignin as highly efficient, low-resistant and anti-clogging air filters. <i>Journal of Membrane Science</i> , 2022, 642, 119977.	4.1	18
158	Enhanced Functional and Structural Characteristics of Poly(vinylidene-trifluoroethylene) Copolymer Thin Films by Corona Poling. <i>Journal of the Electrochemical Society</i> , 2007, 154, G224.	1.3	17
159	Synthesis of poly(aniline-co-3-amino-4-hydroxybenzoic acid) and its enhanced redox activity under highly basic conditions. <i>Electrochimica Acta</i> , 2013, 97, 112-119.	2.6	17
160	CuInZnS-decorated graphene as a high-rate durable anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 257, 90-95.	4.0	17
161	Synthesis of poly(ethylene terephthalate)/clay nanocomposites using aminododecanoic acid-modified clay and a bifunctional compatibilizer. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1057-1064.	1.3	16
162	Growth of rutile TiO ₂ on the convex surface of nanocylinders: from nanoneedles to nanorods and their electrochemical properties. <i>Nanoscale</i> , 2014, 6, 4352-4360.	2.8	16

#	ARTICLE	IF	CITATIONS
163	Strong Interface via Weak Interactions: Ultratough and Malleable Polylactic acid/Polyhydroxybutyrate Biocomposites. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100619.	2.0	16
164	Supercritical Carbon Dioxide-Treated Electrospun Poly(vinylidene fluoride) Nanofibrous Membranes: Morphology, Structures and Properties as an Ionic-Liquid Host. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1779-1784.	2.0	15
165	Shape memory polyurethane with polydopamine-coated nanosheets: Simultaneous enhancement of recovery stress and strain recovery ratio and the underlying mechanisms. <i>European Polymer Journal</i> , 2014, 57, 11-21.	2.6	15
166	Red-to-black electrochromism of 4,9-dihydro-s-indaceno[1,2-b:5,6-b TM]dithiophene-embedded conjugated polymers. <i>Journal of Materials Science</i> , 2015, 50, 5856-5864.	1.7	15
167	Fracture Toughness and Elastic Modulus of Epoxy-Based Nanocomposites with Dopamine-Modified Nano-Fillers. <i>Materials</i> , 2017, 10, 776.	1.3	15
168	Reinforcing nylon 6 via surface-initiated anionic ring-opening polymerization from stacked-cup carbon nanofibers. <i>Composites Science and Technology</i> , 2014, 93, 30-37.	3.8	14
169	Enhanced fracture toughness of carbon fabric/epoxy laminates with pristine and functionalized stacked-cup carbon nanofibers. <i>Engineering Fracture Mechanics</i> , 2015, 148, 73-81.	2.0	14
170	Self-Assembly of a Hydrogen-Bonded Association Chain Liquid Crystalline Polymer (LCP). <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 85-88.	1.1	13
171	A Rocket-Like Encapsulation and Delivery System with Two-Stage Booster Layers: pH-Responsive Poly(methacrylic acid)/Poly(ethylene glycol) Complex-Coated Hollow Silica Vesicles. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1563-1568.	2.0	13
172	Electrospinning-Derived "Hairy Seaweed" and Its Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10106-10113.	1.5	13
173	A poly(3,4-ethylenedioxythiophene):poly(styrene sulfonic acid)/titanium oxide nanocomposite film synthesized by sol-gel assisted electropolymerization for electrochromic application. <i>Thin Solid Films</i> , 2015, 584, 353-358.	0.8	13
174	Polymeric one-side conductive Janus separator with preferably oriented pores for enhancing lithium metal battery safety. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3409-3417.	5.2	13
175	Blends of polyimide and dodecylbenzene sulfonic acid-doped polyaniline: Effects of polyimide structure on electrical conductivity and its thermal degradation. <i>Synthetic Metals</i> , 2006, 156, 117-123.	2.1	12
176	Polymorphism behavior of poly(ethylene naphthalate)/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1040-1049.	2.4	10
177	Thermally stable red electroluminescent hybrid polymers derived from functionalized silsesquioxane and 4,7-bis(3-ethylhexyl-2-thienyl)-2,1,3-benzothiadiazole. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2.5 5661-5670.		10
178	Grafting polyamide 6 onto multi-walled carbon nanotubes using microwave irradiation. <i>Polymer International</i> , 2010, 59, 1346-1349.	1.6	10
179	Poly(ethylene terephthalate)/clay nanocomposites with trisilanolphenyl polyhedral oligomeric silsesquioxane as dispersant: simultaneously enhanced reinforcing and stabilizing effects. <i>Polymer International</i> , 2013, 62, 1492-1499.	1.6	10
180	Structures and properties of liquid-crystalline polymers based on laterally attached oligop-phenylenes. <i>Journal of Polymer Science Part A</i> , 2005, 43, 3394-3402.	2.5	9

#	ARTICLE	IF	CITATIONS
181	A new liquid crystalline polymer based processing aid and its effects on micro-molding process. <i>Journal of Materials Processing Technology</i> , 2005, 168, 308-315.	3.1	8
182	Finer Structures of Polyelectrolyte Multilayers Reflected by Solution ¹ H NMR. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13218-13224.	1.2	8
183	Hybrid Materials and Polymer Electrolytes for Electrochromic Device Applications (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 11.1	11.1	8
184	Temperature and pH Dual-Responsive Behavior of Dendritic Poly(<i>N</i> -isopropylacrylamide) with a Polyoligomeric Silsesquioxane Core and Poly(2-hydroxyethyl methacrylate) Shell. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 396-404.	1.1	8
185	Transparent low-voltage-driven soft actuators with silver nanowires Joule heaters. <i>Polymer Chemistry</i> , 2021, 12, 5251-5256.	1.9	8
186	Tailoring Crystalline Morphology via Entropy-Driven Miscibility: Toward Ultratough, Biodegradable, and Durable Polyhydroxybutyrate. <i>Macromolecules</i> , 2022, 55, 5527-5534.	2.2	8
187	Oriented clay-induced anisotropic crystalline morphology in poly(ethylene naphthalate)/clay nanocomposites and its impact on mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 423-430.	3.8	6
188	Mussel-inspired facile synthesis of Fe/Co-polydopamine complex nanospheres: complexation mechanism and application of the carbonized hybrid nanospheres as an efficient bifunctional electrocatalyst. <i>New Journal of Chemistry</i> , 2018, 42, 19494-19504.	1.4	6
189	Fatty Acid-Based Coacervates as a Membrane-free Protocell Model. <i>Bioconjugate Chemistry</i> , 2022, 33, 444-451.	1.8	6
190	Poly(ethylene naphthalate)/Clay Nanocomposites Based on Thermally Stable Trialkylimidazolium-Treated Montmorillonite: Thermal and Dynamic Mechanical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3985-3988.	0.9	5
191	Preparation of Highly Crystalline Poly(2,5-dimethoxyaniline) Nanoplates Using a Soft-Template Method and Their Structural Characterization. <i>Australian Journal of Chemistry</i> , 2011, 64, 1196.	0.5	5
192	Dithienothiophene-Based Triphenylamine-Containing Branched Copolymers for Electrochromic Applications. <i>ChemPlusChem</i> , 2015, 80, 1306-1311.	1.3	5
193	Facile anchoring mussel adhesive mimic tentacles on biodegradable polymer cargo carriers via self-assembly for microplastic-free cosmetics. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 13-22.	5.0	5
194	Morphology and structures of polypropylene-aliphatic polyketone blends. <i>Plastics, Rubber and Composites</i> , 2002, 31, 147-150.	0.9	4
195	Effect of interfacial interaction on rheological behavior of blends of a semiflexible liquid-crystalline polyester and polycarbonate. <i>Journal of Applied Polymer Science</i> , 2003, 90, 3051-3058.	1.3	4
196	Covalent Incorporation of Ethylenediamine Ligands in the Framework of Periodic Mesoporous Organosilica Nanostructure. <i>Soft Materials</i> , 2010, 8, 183-196.	0.8	4
197	Influence of hydrothermal exposure on surface characteristics and corrosion behaviors of anodized titanium. <i>Surface and Interface Analysis</i> , 2014, 46, 307-313.	0.8	4
198	Viscosity-reducing effects of two semiflexible liquid-crystalline polyesters with different chain rigidities in a matrix of polycarbonate. <i>Journal of Applied Polymer Science</i> , 2004, 92, 960-969.	1.3	3

#	ARTICLE	IF	CITATIONS
199	Synthesis and optical characteristics of organic light-emitting dot based on well-defined octa-functionalized silsesquioxane. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2787-2798.	0.8	3
200	Cross-linking SiO ₂ Cages with Carbon by Thermally Annealing Polyhedral Oligomeric Silsesquioxane: Structures, Morphology, and Electrochemical Properties as Lithium-ion Battery Anodes. <i>ChemElectroChem</i> , 2017, 4, 49-55.	1.7	3
201	Polyesters based on hydroxybenzoic acid, hydroquinone, sebacic acid, and suberic acid Molecular design towards broad nematic range. <i>Plastics, Rubber and Composites</i> , 2002, 31, 283-288.	0.9	2
202	Poly(ethylene terephthalate)/Clay Nanocomposites Based on Aminododecanoic Acid-Modified Clay: Effect of Compatibilizer Reactivity on Clay Dispersion. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3981-3984.	0.9	2
203	The crystallization of decanoic acid/dopamine supramolecular self-assemblies in the presence of coacervates. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 759-767.	5.0	2
204	Atomic Force Microscopic Observations on the Crystalline Morphology of Poly(ethylene) Terephthalate/Overlapped 10 Tf 50 542 Td (r	1.1	1
205	ORGANIC-INORGANIC HYBRID NANOPARTICLES WITH QUANTUM CONFINEMENT EFFECT. <i>International Journal of Nanoscience</i> , 2009, 08, 185-190.	0.4	1
206	Polypropylene/Clay Nanocomposites. , 0, , 251-282.		0