

Jiahua Zhu

List of Publications by Year in descending order

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121
papers

7,743
citations

47006

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85
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all docs

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docs citations

126
times ranked

8745
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of biogas-residue-based mesoporous carbons via one-step template-free method for organic and inorganic pollutants removal. <i>Fuel</i> , 2022, 311, 122516.	6.4	6
2	Advanced Material-Oriented Biomass Precise Reconstruction: A Review on Porous Carbon with Inherited Natural Structure and Created Artificial Structure by Post-treatment. <i>Macromolecular Bioscience</i> , 2022, 22, e2100479.	4.1	13
3	Improving thermal conductivity of polyethylene/polypropylene by styrene-ethylene-propylene-styrene wrapping hexagonal boron nitride at the phase interface. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1090-1099.	21.1	85
4	CO ₂ -negative biomass conversion: An economic route with co-production of green hydrogen and highly porous carbon. <i>Applied Energy</i> , 2022, 311, 118685.	10.1	14
5	A negative-carbon footprint process with mixed biomass feedstock maximizes conversion efficiency, product value and CO ₂ mitigation. <i>Bioresource Technology</i> , 2022, 351, 127004.	9.6	18
6	A facile and green strategy to synthesize N/P co-doped bio-char as VOCs adsorbent: Through efficient biogas slurry treatment and struvite transform. <i>Fuel</i> , 2022, 322, 124156.	6.4	8
7	Mesoscience in supported nano-metal catalysts based on molecular thermodynamic modeling: A mini review and perspective. <i>Chemical Engineering Science</i> , 2021, 229, 116164.	3.8	9
8	Techno-economic analysis of biomass processing with dual outputs of energy and activated carbon. <i>Bioresource Technology</i> , 2021, 319, 124108.	9.6	41
9	Cycling pressure-switching process enriches micropores in activated carbon by accelerating reactive gas internal diffusion in porous channels. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00248.	3.3	2
10	Versatile Ionic Gel Driven by Dual Hydrogen Bond Networks: Toward Advanced Lubrication and Self-Healing. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5932-5941.	4.4	14
11	Graphite oxide/boron nitride hybrid membranes: The role of cross-plane laminar bonding for a durable membrane with large water flux and high rejection rate. <i>Journal of Membrane Science</i> , 2020, 593, 117401.	8.2	49
12	Cross-linked GO membranes assembled with GO nanosheets of differently sized lateral dimensions for organic dye and chromium separation. <i>Journal of Membrane Science</i> , 2020, 598, 117789.	8.2	46
13	Porous Metallosalen Hypercrosslinked Ionic Polymers for Cooperative CO ₂ Cycloaddition Conversion. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 676-684.	3.7	34
14	Cobalt-Salen-Based Porous Ionic Polymer: The Role of Valence on Cooperative Conversion of CO ₂ to Cyclic Carbonate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 609-618.	8.0	53
15	Enhanced thermoelectric performance of F4-TCNQ doped FASnI ₃ thin films. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25431-25442.	10.3	25
16	Structure-Rheology-Property relationships in double-percolated Polypropylene/Poly(methyl) Tj ETQqO O O rgBT /Overlock 10 Tf 50 147 Tc 108306.	7.8	25
17	Holistically Engineered Polymer-Ion Interactions in Biocompatible Polyvinyl Alcohol Blends for High-Performance Triboelectric Devices in Self-Powered Wearable Cardiovascular Monitorings. <i>Advanced Materials</i> , 2020, 32, e2002878.	21.0	66
18	Critical Role of Carbonized Cellulose in the Evolution of Highly Porous Biocarbon: Seeing the Structural and Compositional Changes of Spent Mushroom Substrate by Deconvoluted Thermogravimetric Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22541-22548.	3.7	7

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19	Microwave-Responsive Nanomaterials for Catalysis. Springer Series in Materials Science, 2020, , 65-91.	0.6	2
20	Directional xylitol crystal propagation in oriented micro-channels of boron nitride aerogel for isotropic heat conduction. Composites Science and Technology, 2019, 182, 107715.	7.8	20
21	Carbon nanofiber reinforced Co-continuous HDPE/PMMA composites: Exploring the role of viscosity ratio on filler distribution and electrical/thermal properties. Composites Science and Technology, 2019, 184, 107859.	7.8	28
22	Two important factors of selecting lignin as efficient lubricating additives in poly (ethylene glycol): Hydrogen bond and molecular weight. International Journal of Biological Macromolecules, 2019, 129, 564-570.	7.5	28
23	Surface functionalization of graphene oxide by disodium guanosine 5â€²-monophosphate and its excellent performance for lipase immobilization. Applied Surface Science, 2019, 492, 27-36.	6.1	9
24	Hydrogen-Bond Driven Self-Assembly of Two-Dimensional Supramolecular Melamine-Cyanuric Acid Crystals and Its Self-Alignment in Polymer Composites for Enhanced Thermal Conduction. ACS Applied Polymer Materials, 2019, 1, 1291-1300.	4.4	31
25	Structural strategies to design bio-ionic liquid: Tuning molecular interaction with lignin for enhanced lubrication. Journal of Molecular Liquids, 2019, 280, 49-57.	4.9	12
26	Engineering molecular interaction in polymeric hybrids: Effect of thermal linker and polymer chain structure on thermal conduction. Composites Part B: Engineering, 2019, 166, 509-515.	12.0	34
27	Niobium-doped TiO2 solid acid catalysts: Strengthened interfacial polarization, amplified microwave heating and enhanced energy efficiency of hydroxymethylfurfural production. Applied Catalysis B: Environmental, 2019, 243, 741-749.	20.2	34
28	Thermal Conduction in Polymer Composites. , 2019, , 77-110.		7
29	A review on the role of interface in mechanical, thermal, and electrical properties of polymer composites. Advanced Composites and Hybrid Materials, 2018, 1, 415-439.	21.1	139
30	Small Organic Linkers with Hybrid Terminal Groups Drive Efficient Phonon Transport in Polymers. Journal of Physical Chemistry C, 2018, 122, 10327-10333.	3.1	20
31	A review on thermally conductive polymeric composites: classification, measurement, model and equations, mechanism and fabrication methods. Advanced Composites and Hybrid Materials, 2018, 1, 207-230.	21.1	260
32	Introducing advanced composites and hybrid materials. Advanced Composites and Hybrid Materials, 2018, 1, 1-5.	21.1	57
33	The stiffnessâ€”thermal conduction relationship at the composite interface: the effect of particle alignment on the long-range confinement of polymer chains monitored by scanning thermal microscopy. Nanoscale, 2018, 10, 1695-1703.	5.6	56
34	Effect of interface on the mechanical behavior of polybutadieneâ€”silica composites: An experimental and simulation study. Journal of Applied Polymer Science, 2018, 135, 46089.	2.6	9
35	Localizing microwave heat by surface polarization of titanate nanostructures for enhanced catalytic reaction efficiency. Applied Catalysis B: Environmental, 2018, 227, 266-275.	20.2	21
36	Thermal transport in polymeric materials and across composite interfaces. Applied Materials Today, 2018, 12, 92-130.	4.3	299

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37	Structurally tuning microwave absorption of core/shell structured CNT/polyaniline catalysts for energy efficient saccharide-HMF conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 581-588.	20.2	50
38	Filler free technology for enhanced thermally conductive optically transparent polymeric materials using low thermally conductive organic linkers. <i>Applied Materials Today</i> , 2018, 13, 207-216.	4.3	33
39	Lignin from Hardwood and Softwood Biomass as a Lubricating Additive to Ethylene Glycol. <i>Molecules</i> , 2018, 23, 537.	3.8	37
40	Reduced wrinkling in GO membrane by grafting basal-plane groups for improved gas and liquid separations. <i>Journal of Membrane Science</i> , 2018, 563, 336-344.	8.2	40
41	Permselective H ₂ /CO ₂ Separation and Desalination of Hybrid GO/rGO Membranes with Controlled Pre-cross-linking. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28166-28175.	8.0	34
42	Coupled Chemical and Thermal Drivers in Microwaves toward Ultrafast HMF Oxidation to FDCA. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11493-11501.	6.7	41
43	Realizing the nanoscale quantitative thermal mapping of scanning thermal microscopy by resilient tip-surface contact resistance models. <i>Nanoscale Horizons</i> , 2018, 3, 505-516.	8.0	21
44	Molecular Origin of Efficient Phonon Transfer in Modulated Polymer Blends: Effect of Hydrogen Bonding on Polymer Coil Size and Assembled Microstructure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14204-14212.	3.1	53
45	Developing heat conduction pathways through short polymer chains in a hydrogen bonded polymer system. <i>Composites Science and Technology</i> , 2017, 148, 97-105.	7.8	49
46	Engineering Hydrogen Bonding Interaction and Charge Separation in Bio-Polymers for Green Lubrication. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5669-5678.	2.6	23
47	Enhancing Energy Efficiency in Saccharide-HMF Conversion with Core/shell Structured Microwave Responsive Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4352-4358.	6.7	32
48	Grafting heteroelement-rich groups on graphene oxide: Tuning polarity and molecular interaction with bio-ionic liquid for enhanced lubrication. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 47-54.	9.4	19
49	Pore size dependent molecular adsorption of cationic dye in biomass derived hierarchically porous carbon. <i>Journal of Environmental Management</i> , 2017, 196, 168-177.	7.8	29
50	Expedited Phonon Transfer in Interfacially Constrained Polymer Chain along Self-Organized Amino Acid Crystals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12138-12145.	8.0	49
51	Molecular insight into the Mullins effect: irreversible disentanglement of polymer chains revealed by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19468-19477.	2.8	41
52	Adhesion and friction forces in biofouling attachments to nanotube- and PEG- patterned TiO ₂ surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 108-117.	5.0	27
53	Moisture driven thermal conduction in polymer and polymer blends. <i>Composites Science and Technology</i> , 2017, 151, 115-123.	7.8	44
54	Cotton fabric derived hierarchically porous carbon and nitrogen doping for sustainable capacitor electrode. <i>Carbon</i> , 2017, 111, 839-848.	10.3	140

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55	Reinforcement of Cu nanoink sintered film with extended carbon nanofibers for large deformation of printed electronics. <i>Journal of Composite Materials</i> , 2017, 51, 997-1003.	2.4	6
56	Elastohydrodynamic Performance of a Bio-Based, Non-Corrosive Ionic Liquid. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 996.	2.5	17
57	Effect of Filler-Polymer Interface on Elastic Properties of Polymer Nanocomposites: A Molecular Dynamics Study. <i>Tire Science and Technology</i> , 2017, 45, 227-241.	0.4	4
58	Durable Self-Healing Superhydrophobic Coating with Biomimic "Chloroplast"-Analogous Structure. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600040.	3.7	23
59	Surface functionalized carbon nanofibers and their effect on the dispersion and tribological property of epoxy nanocomposites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 1219-1225.	1.0	6
60	Superamphiphobic and Electroactive Nanocomposite toward Self-Cleaning, Antiwear, and Anticorrosion Coatings. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12481-12493.	8.0	145
61	Paving the Thermal Highway with Self-Organized Nanocrystals in Transparent Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29080-29087.	8.0	35
62	Molecular Transformation, Diffusion, and Assembling into Three-Dimensional Freestanding Tube Arrays via a Triphasic Reaction. <i>Langmuir</i> , 2016, 32, 11525-11531.	3.5	0
63	Enriching Heteroelements in Lignin as Lubricating Additives for Bioionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3877-3887.	6.7	36
64	Confined molecular motion across liquid/liquid interfaces in a triphasic reaction towards free-standing conductive polymer tube arrays. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6290-6294.	10.3	7
65	Green processing of plant biomass into mesoporous carbon as catalyst support. <i>Chemical Engineering Journal</i> , 2016, 295, 301-308.	12.7	55
66	Ionic Grease Lubricants: Protic [Triethanolamine][Oleic Acid] and Aprotic [Choline][Oleic Acid]. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4977-4984.	8.0	45
67	Lignin in Ethylene Glycol and Poly(ethylene glycol): Fortified Lubricants with Internal Hydrogen Bonding. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1840-1849.	6.7	54
68	Facile synthesis of mesoporous carbon nanocomposites from natural biomass for efficient dye adsorption and selective heavy metal removal. <i>RSC Advances</i> , 2016, 6, 2259-2269.	3.6	74
69	In-situ reduction of Ag nanoparticles on oxygenated mesoporous carbon fabric: Exceptional catalyst for nitroaromatics reduction. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 306-315.	20.2	68
70	Efficient Perovskite Hybrid Solar Cells via Ionomer Interfacial Engineering. <i>Advanced Functional Materials</i> , 2015, 25, 6875-6884.	14.9	57
71	Self-Lubricating Polytetrafluoroethylene/Polyimide Blends Reinforced with Zinc Oxide Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	2.7	22
72	Hierarchical Porous and High Surface Area Tubular Carbon as Dye Adsorbent and Capacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12230-12237.	8.0	106

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73	Hierarchical macrotube/mesopore carbon decorated with mono-dispersed Ag nanoparticles as a highly active catalyst. <i>Green Chemistry</i> , 2015, 17, 2515-2523.	9.0	114
74	[N-Methyl-2-pyrrolidone][C1â€“C4 carboxylic acid]: a novel solvent system with exceptional lignin solubility. <i>Chemical Communications</i> , 2015, 51, 13554-13557.	4.1	36
75	Non-corrosive green lubricants: strengthened ligninâ€“[choline][amino acid] ionic liquids interaction via reciprocal hydrogen bonding. <i>RSC Advances</i> , 2015, 5, 66067-66072.	3.6	68
76	Carbon monolith with embedded mesopores and nanoparticles as a novel adsorbent for water treatment. <i>RSC Advances</i> , 2015, 5, 42540-42547.	3.6	17
77	Unveiling Mesopore Evolution in Carbonized Wood: Interfacial Separation, Migration, and Degradation of Lignin Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2489-2495.	6.7	21
78	Advanced micro/nanocapsules for self-healing smart anticorrosion coatings. <i>Journal of Materials Chemistry A</i> , 2015, 3, 469-480.	10.3	334
79	Positive and negative magnetoresistance phenomena observed in magnetic electrospun polyacrylonitrile-based carbon nanocomposite fibers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 715-722.	5.5	34
80	Mesoporous magnetic carbon nanocomposite fabrics for highly efficient Cr(<i>vi</i>) removal. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2256-2265.	10.3	140
81	Ultrafast Cr(<i>vi</i>) removal from polluted water by microwave synthesized iron oxide submicron wires. <i>Chemical Communications</i> , 2014, 50, 8036.	4.1	34
82	Stitching graphene oxide sheets into a membrane at a liquid/liquid interface. <i>Chemical Communications</i> , 2014, 50, 15944-15947.	4.1	26
83	Magnetic graphene oxide nanocomposites: nanoparticles growth mechanism and property analysis. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9478-9488.	5.5	92
84	Interfaceâ€“strengthened Polyimide/Carbon Nanofibers Nanocomposites with Superior Mechanical and Tribological Properties. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1407-1414.	2.2	15
85	Magnetic carbon nanostructures: microwave energy-assisted pyrolysis vs. conventional pyrolysis. <i>Chemical Communications</i> , 2013, 49, 258-260.	4.1	39
86	Iron-core carbon-shell nanoparticles reinforced electrically conductive magnetic epoxy resin nanocomposites with reduced flammability. <i>RSC Advances</i> , 2013, 3, 9453.	3.6	49
87	An overview of the engineered graphene nanostructures and nanocomposites. <i>RSC Advances</i> , 2013, 3, 22790.	3.6	180
88	Magnetic field induced capacitance enhancement in graphene and magnetic graphene nanocomposites. <i>Energy and Environmental Science</i> , 2013, 6, 194-204.	30.8	137
89	Fluorescent electrospun polyvinyl alcohol/CdSe@ZnS nanocomposite fibers. <i>Journal of Composite Materials</i> , 2013, 47, 3175-3185.	2.4	39
90	Electrochromic polyaniline/graphite oxide nanocomposites with endured electrochemical energy storage. <i>Polymer</i> , 2013, 54, 1820-1831.	3.8	278

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91	Microwave synthesized magnetic tubular carbon nanocomposite fabrics toward electrochemical energy storage. <i>Nanoscale</i> , 2013, 5, 1825.	5.6	30
92	Hierarchical 3D Nanocomposites towards Advanced Electrochemical Energy Storage. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1497, 1.	0.1	0
93	Polypyrrole metacomposites with different carbon nanostructures. <i>Journal of Materials Chemistry</i> , 2012, 22, 4996.	6.7	110
94	Silica stabilized iron particles toward anti-corrosion magnetic polyurethane nanocomposites. <i>RSC Advances</i> , 2012, 2, 1136-1143.	3.6	67
95	Polypropylene/layered double hydroxide nanocomposites. <i>Journal of Materials Chemistry</i> , 2012, 22, 19113.	6.7	82
96	Looped carbon capturing and environmental remediation: case study of magnetic polypropylene nanocomposites. <i>RSC Advances</i> , 2012, 2, 4844.	3.6	39
97	Property manipulated polypropylene-iron nanocomposites with maleic anhydride polypropylene. <i>Journal of Materials Chemistry</i> , 2012, 22, 15928.	6.7	27
98	Magnetic electrospun fluorescent polyvinylpyrrolidone nanocomposite fibers. <i>Polymer</i> , 2012, 53, 4501-4511.	3.8	48
99	Magnetic graphene nanocomposites: electron conduction, giant magnetoresistance and tunable negative permittivity. <i>Journal of Materials Chemistry</i> , 2012, 22, 835-844.	6.7	85
100	Very large magnetoresistive graphene disk with negative permittivity. <i>Nanoscale</i> , 2012, 4, 152-156.	5.6	41
101	Carbon Nanostructure-Derived Polyaniline Metacomposites: Electrical, Dielectric, and Giant Magnetoresistive Properties. <i>Langmuir</i> , 2012, 28, 10246-10255.	3.5	185
102	One-Pot Synthesis of Magnetic Graphene Nanocomposites Decorated with Core@Double-shell Nanoparticles for Fast Chromium Removal. <i>Environmental Science & Technology</i> , 2012, 46, 977-985.	10.0	469
103	Durable polytetrafluoroethylene composites in harsh environments: Tribology and corrosion investigation. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4307-4314.	2.6	9
104	Surfactant-Free Synthesized Magnetic Polypropylene Nanocomposites: Rheological, Electrical, Magnetic, and Thermal Properties. <i>Macromolecules</i> , 2011, 44, 4382-4391.	4.8	104
105	Comprehensive and sustainable recycling of polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 16239.	6.7	30
106	Polyaniline-tungsten oxide metacomposites with tunable electronic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 342-348.	6.7	153
107	Electrical and dielectric properties of polyaniline-Al ₂ O ₃ nanocomposites derived from various Al ₂ O ₃ nanostructures. <i>Journal of Materials Chemistry</i> , 2011, 21, 3952.	6.7	146
108	Poly(propylene)/Graphene Nanoplatelet Nanocomposites: Melt Rheological Behavior and Thermal, Electrical, and Electronic Properties. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1951-1959.	2.2	185

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109	Poly(propylene) Nanocomposites Containing Various Carbon Nanostructures. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 2429-2438.	2.2	81
110	Poly(propylene)/Carbon Nanofiber Nanocomposites: Ex Situ Solvent-Assisted Preparation and Analysis of Electrical and Electronic Properties. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 434-443.	3.6	74
111	Magnetic Polypropylene Nanocomposites Reinforced with In-situ Fabricated Iron Oxide Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	3
112	Enhanced Electrical Switching and Electrochromic Properties of Poly(p-phenylenebenzobisthiazole) Thin Films Embedded with Nano-WO ₃ . <i>Advanced Functional Materials</i> , 2010, 20, 3076-3084.	14.9	111
113	Electrospun Magnetic Fibrillar Polystyrene Nanocomposites Reinforced with Nickel Nanoparticles. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1775-1783.	2.2	66
114	Rheological behaviors and electrical conductivity of epoxy resin nanocomposites suspended with in-situ stabilized carbon nanofibers. <i>Polymer</i> , 2010, 51, 2643-2651.	3.8	142
115	Comparative Study of Tribological Properties of Different Fibers Reinforced PTFE/PEEK Composites at Elevated Temperatures. <i>Tribology Transactions</i> , 2010, 53, 189-194.	2.0	41
116	In situ stabilized carbon nanofiber (CNF) reinforced epoxy nanocomposites. <i>Journal of Materials Chemistry</i> , 2010, 20, 4937.	6.7	309
117	Conductive Polypyrrole/Tungsten Oxide Metacomposites with Negative Permittivity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16335-16342.	3.1	180
118	Magnetic Epoxy Resin Nanocomposites Reinforced with Core-Shell Structured Fe@FeO Nanoparticles: Fabrication and Property Analysis. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2100-2107.	8.0	130
119	Electrical conductivity manipulation and switching phenomena of poly(p-phenylenebenzobisthiazole) thin film by doping process. <i>Journal of Materials Chemistry</i> , 2010, 20, 568-574.	6.7	24
120	Tribological and Mechanical Properties of Carbon Nanofiber-Filled Polytetrafluoroethylene/Polyimide Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5958-5965.	0.9	10
121	Naturally dispersed ash components in bio-carbon composites: integrated ammonia nitrogen removal and specific surface area augment. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	1