

# Zhanhu Guo

## List of Publications by Citations

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960  
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68,036  
ext. citations

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8.33  
L-index

#	Paper	IF	Citations
924	Role of Interfaces in Two-Dimensional Photocatalyst for Water Splitting. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2253-2276	7.1	558
923	Lightweight conductive graphene/thermoplastic polyurethane foams with ultrahigh compressibility for piezoresistive sensing. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 73-83	7.1	477
922	One-pot synthesis of magnetic graphene nanocomposites decorated with core@double-shell nanoparticles for fast chromium removal. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 977-85	10.3	429
921	Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 157-166	7.1	413
920	Overview of carbon nanostructures and nanocomposites for electromagnetic wave shielding. <i>Carbon</i> , <b>2018</b> , 140, 696-733	10.4	403
919	Multifunctional composite core-shell nanoparticles. <i>Nanoscale</i> , <b>2011</b> , 3, 4474-502	7.7	367
918	Electrically conductive strain sensing polyurethane nanocomposites with synergistic carbon nanotubes and graphene bifillers. <i>Nanoscale</i> , <b>2016</b> , 8, 12977-89	7.7	364
917	Electrically conductive polymer composites for smart flexible strain sensors: a critical review. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12121-12141	7.1	359
916	One-step preparation of single-crystalline Fe <sub>2</sub> O <sub>3</sub> particles/graphene composite hydrogels as high performance anode materials for supercapacitors. <i>Nano Energy</i> , <b>2014</b> , 7, 86-96	17.1	335
915	Flexible polydimethylsiloxane/multi-walled carbon nanotubes membranous metacomposites with negative permittivity. <i>Polymer</i> , <b>2017</b> , 125, 50-57	3.9	335
914	Electromagnetic Interference Shielding Polymers and Nanocomposites - A Review. <i>Polymer Reviews</i> , <b>2019</b> , 59, 280-337	14	316
913	Magnetic switch of permeability for polyelectrolyte microcapsules embedded with Co@Au nanoparticles. <i>Langmuir</i> , <b>2005</b> , 21, 2042-50	4	312
912	Surface functionalized alumina nanoparticle filled polymeric nanocomposites with enhanced mechanical properties. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 2800		310
911	Electromagnetic interference shielding MWCNT-Fe <sub>3</sub> O <sub>4</sub> @Ag/epoxy nanocomposites with satisfactory thermal conductivity and high thermal stability. <i>Carbon</i> , <b>2019</b> , 141, 506-514	10.4	304
910	Continuously prepared highly conductive and stretchable SWNT/MWNT synergistically composited electrospun thermoplastic polyurethane yarns for wearable sensing. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2258-2269	7.1	301
909	Significantly enhanced and precisely modeled thermal conductivity in polyimide nanocomposites with chemically modified graphene via in situ polymerization and electrospinning-hot press technology. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3004-3015	7.1	300
908	Electrospun polyacrylonitrile nanocomposite fibers reinforced with Fe <sub>3</sub> O <sub>4</sub> nanoparticles: Fabrication and property analysis. <i>Polymer</i> , <b>2009</b> , 50, 4189-4198	3.9	292

907	In situ stabilized carbon nanofiber (CNF) reinforced epoxy nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 4937		282
906	Biological cell template synthesis of nitrogen-doped porous hollow carbon spheres/MnO <sub>2</sub> composites for high-performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , <b>2019</b> , 296, 907-915	6.7	282
905	Achieving superior electromagnetic wave absorbers through the novel metal-organic frameworks derived magnetic porous carbon nanorods. <i>Carbon</i> , <b>2019</b> , 145, 433-444	10.4	281
904	Ultralow percolation threshold and enhanced electromagnetic interference shielding in poly(L-lactide)/multi-walled carbon nanotube nanocomposites with electrically conductive segregated networks. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9359-9369	7.1	276
903	High densities of magnetic nanoparticles supported on graphene fabricated by atomic layer deposition and their use as efficient synergistic microwave absorbers. <i>Nano Research</i> , <b>2014</b> , 7, 704-716	10	274
902	Advanced micro/nanocapsules for self-healing smart anticorrosion coatings. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 469-480	13	268
901	In situ grown nickel selenide on graphene nanohybrid electrodes for high energy density asymmetric supercapacitors. <i>Nanoscale</i> , <b>2018</b> , 10, 20414-20425	7.7	268
900	Porous lignin based poly (acrylic acid)/organo-montmorillonite nanocomposites: Swelling behaviors and rapid removal of Pb (II) ions. <i>Polymer</i> , <b>2017</b> , 128, 12-23	3.9	264
899	An overview of multifunctional epoxy nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 5890-5906	9.6	264
898	Biomass-derived nitrogen-doped carbon quantum dots: highly selective fluorescent probe for detecting Fe ions and tetracyclines. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 539, 332-341	9.3	259
897	Durably Antibacterial and Bacterially Antiadhesive Cotton Fabrics Coated by Cationic Fluorinated Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 6124-6136	9.5	257
896	Silver nanoparticles/graphene oxide decorated carbon fiber synergistic reinforcement in epoxy-based composites. <i>Polymer</i> , <b>2017</b> , 131, 263-271	3.9	254
895	Polydimethylsiloxane-titania nanocomposite coating: Fabrication and corrosion resistance. <i>Polymer</i> , <b>2018</b> , 138, 203-210	3.9	250
894	Nanoparticle dispersion and aggregation in polymer nanocomposites: insights from molecular dynamics simulation. <i>Langmuir</i> , <b>2011</b> , 27, 7926-33	4	248
893	Electrochromic polyaniline/graphite oxide nanocomposites with endured electrochemical energy storage. <i>Polymer</i> , <b>2013</b> , 54, 1820-1831	3.9	246
892	Ultralight, highly compressible and fire-retardant graphene aerogel with self-adjustable electromagnetic wave absorption. <i>Carbon</i> , <b>2018</b> , 139, 1126-1135	10.4	245
891	Magnetic Nanocarbon Adsorbents with Enhanced Hexavalent Chromium Removal: Morphology Dependence of Fibrillar vs Particulate Structures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10689-10701	3.9	244
890	Advanced titania nanostructures and composites for lithium ion battery. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 2519-2534	4.3	243

889	Large Scaled Synthesis of Heterostructured Electrospun TiO <sub>2</sub> /SnO <sub>2</sub> Nanofibers with an Enhanced Photocatalytic Activity. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H651-H656	3.9	243
888	Ultrasensitive and Highly Compressible Piezoresistive Sensor Based on Polyurethane Sponge Coated with a Cracked Cellulose Nanofibril/Silver Nanowire Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10922-10932	9.5	242
887	Bio-gel derived nickel/carbon nanocomposites with enhanced microwave absorption. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8812-8822	7.1	240
886	Layer-by-layer grafting CNTs onto carbon fibers surface for enhancing the interfacial properties of epoxy resin composites. <i>Composites Science and Technology</i> , <b>2018</b> , 154, 28-36	8.6	232
885	Nano-TiNb <sub>2</sub> O <sub>7</sub> /carbon nanotubes composite anode for enhanced lithium-ion storage. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 65-72	6.7	232
884	One-Step Synthesis of Nb O <sub>x</sub> /C/Nb C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. <i>ChemSusChem</i> , <b>2018</b> , 11, 688-699	8.3	223
883	Reinforced carbon fiber laminates with oriented carbon nanotube epoxy nanocomposites: Magnetic field assisted alignment and cryogenic temperature mechanical properties. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 517, 40-51	9.3	222
882	Electromagnetic Field Shielding Polyurethane Nanocomposites Reinforced with CoreShell FeSilica Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 15304-15310	3.8	222
881	Highly efficient uranium adsorption by salicylaldehyde/polydopamine graphene oxide nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24676-24685	13	220
880	Enhanced Electromagnetic Wave Absorption of Three-Dimensional Porous Fe <sub>3</sub> O <sub>4</sub> /C Composite Flowers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 12471-12480	8.3	217
879	Carbon Nanotubes-Adsorbed Electrospun PA66 Nanofiber Bundles with Improved Conductivity and Robust Flexibility. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14150-9	9.5	216
878	Polypyrrole-interface-functionalized nano-magnetite epoxy nanocomposites as electromagnetic wave absorbers with enhanced flame retardancy. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5334-5344	7.1	209
877	Two-step hydrothermally synthesized carbon nanodots/WO <sub>3</sub> photocatalysts with enhanced photocatalytic performance. <i>Dalton Transactions</i> , <b>2017</b> , 46, 15769-15777	4.3	207
876	Non-covalently functionalized graphene strengthened poly(vinyl alcohol). <i>Materials and Design</i> , <b>2018</b> , 139, 372-379	8.1	207
875	Magnetoresistive polyaniline-magnetite nanocomposites with negative dielectrical properties. <i>Polymer</i> , <b>2012</b> , 53, 801-809	3.9	205
874	All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706777	15.6	203
873	Comparative assessment of the strain-sensing behaviors of polylactic acid nanocomposites: reduced graphene oxide or carbon nanotubes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2318-2328	7.1	202
872	A graphene quantum dot decorated SrRuO <sub>3</sub> mesoporous film as an efficient counter electrode for high-performance dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17848-17855	13	202

871	Recent developments in bio-monitoring via advanced polymer nanocomposite-based wearable strain sensors. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 123, 167-177	11.8	201
870	An overview of stretchable strain sensors from conductive polymer nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11710-11730	7.1	199
869	Three-dimensional core-shell Fe <sub>3</sub> O <sub>4</sub> /Polyaniline coaxial heterogeneous nanonets: Preparation and high performance supercapacitor electrodes. <i>Electrochimica Acta</i> , <b>2019</b> , 315, 114-123	6.7	199
868	Sandwich-like NiCo layered double hydroxide/reduced graphene oxide nanocomposite cathodes for high energy density asymmetric supercapacitors. <i>Dalton Transactions</i> , <b>2019</b> , 48, 5193-5202	4.3	199
867	Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 173-185	8.7	198
866	Microwave solvothermal carboxymethyl chitosan templated synthesis of TiO <sub>2</sub> /ZrO <sub>2</sub> composites toward enhanced photocatalytic degradation of Rhodamine B. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 541, 18-29	9.3	196
865	Carbon-stabilized iron nanoparticles for environmental remediation. <i>Nanoscale</i> , <b>2010</b> , 2, 917-9	7.7	195
864	Electropolymerized Polyaniline Stabilized Tungsten Oxide Nanocomposite Films: Electrochromic Behavior and Electrochemical Energy Storage. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25052-25064	3.8	194
863	Reduced Graphene Oxide Heterostructured Silver Nanoparticles Significantly Enhanced Thermal Conductivities in Hot-Pressed Electrospun Polyimide Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25465-25473	9.5	193
862	Magnetic polyaniline nanocomposites toward toxic hexavalent chromium removal. <i>RSC Advances</i> , <b>2012</b> , 2, 11007	3.7	193
861	A critical review on the heterogeneous catalytic oxidation of elemental mercury in flue gases. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 10813-23	10.3	192
860	One-pot synthesized molybdenum dioxide-molybdenum carbide heterostructures coupled with 3D holey carbon nanosheets for highly efficient and ultrastable cycling lithium-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13460-13472	13	185
859	Towards sustainable ultrafast molecular-separation membranes: From conventional polymers to emerging materials. <i>Progress in Materials Science</i> , <b>2018</b> , 92, 258-283	42.2	184
858	Nanocomposite sponges of sodium alginate/graphene oxide/polyvinyl alcohol as potential wound dressing: In vitro and in vivo evaluation. <i>Composites Part B: Engineering</i> , <b>2019</b> , 167, 396-405	10	180
857	Experimental and simulation-based understanding of morphology controlled barium titanate nanoparticles under co-adsorption of surfactants. <i>CrystEngComm</i> , <b>2017</b> , 19, 3288-3298	3.3	179
856	Organic vapor sensing behaviors of conductive thermoplastic polyurethane-graphene nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4459-4469	7.1	179
855	Heterostructured TiO <sub>2</sub> /WO <sub>3</sub> Nanocomposites for Photocatalytic Degradation of Toluene under Visible Light. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H1086-H1090	3.9	175
854	Flame-retardant rigid polyurethane foam with a phosphorus-nitrogen single intumescent flame retardant. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 668-676	3.2	174

853	Long-term antibacterial stable reduced graphene oxide nanocomposites loaded with cuprous oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 13-23	9.3	174
852	Poly (vinyl butyral)/Graphene oxide/poly (methylhydrosiloxane) nanocomposite coating for improved aluminum alloy anticorrosion. <i>Polymer</i> , <b>2019</b> , 172, 415-422	3.9	173
851	Systematic Tuning and Multifunctionalization of Covalent Organic Polymers for Enhanced Carbon Capture. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13301-7	16.4	171
850	Polyborosilazane derived ceramics - Nitrogen sulfur dual doped graphene nanocomposite anode for enhanced lithium ion batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 296, 925-937	6.7	170
849	Polypyrrole/Silicon Carbide Nanocomposites with Tunable Electrical Conductivity. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3874-3882	3.8	169
848	An overview of the engineered graphene nanostructures and nanocomposites. <i>RSC Advances</i> , <b>2013</b> , 3, 22790	3.7	167
847	Tunable and weakly negative permittivity in carbon/silicon nitride composites with different carbonizing temperatures. <i>Carbon</i> , <b>2017</b> , 125, 103-112	10.4	167
846	Conductive Polypyrrole/Tungsten Oxide Metacomposites with Negative Permittivity. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16335-16342	3.8	167
845	Ultrasonic Pretreated Sludge Derived Stable Magnetic Active Carbon for Cr(VI) Removal from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7283-7291	8.3	166
844	Carbon nanospheres induced high negative permittivity in nanosilver-polydopamine metacomposites. <i>Carbon</i> , <b>2019</b> , 147, 550-558	10.4	165
843	Polymer nanocomposites for energy storage, energy saving, and anticorrosion. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14929-14941	13	165
842	Flame-retardant electrical conductive nanopolymers based on bisphenol F epoxy resin reinforced with nano polyanilines. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 898-910	9.5	164
841	Coaxial electrospun nanostructures and their applications. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11513	13	163
840	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21904-21914	9.5	162
839	An overview of lead-free piezoelectric materials and devices. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12446-12467	7.1	162
838	Poly(propylene)/Graphene Nanoplatelet Nanocomposites: Melt Rheological Behavior and Thermal, Electrical, and Electronic Properties. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 1951-1959	2.6	161
837	Reinforcing carbon fiber epoxy composites with triazine derivatives functionalized graphene oxide modified sizing agent. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107078	10	160
836	Carbon nanostructure-derived polyaniline metacomposites: electrical, dielectric, and giant magnetoresistive properties. <i>Langmuir</i> , <b>2012</b> , 28, 10246-55	4	159

835	Superhydrophobic/Superoleophilic Polycarbonate/Carbon Nanotubes Porous Monolith for Selective Oil Adsorption from Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 13747-13755	8.3	158
834	Morphology and composition controllable synthesis of MgAl <sub>2</sub> CO <sub>3</sub> hydrotalcites by tuning the synthesis pH and the CO <sub>2</sub> capture capacity. <i>Applied Clay Science</i> , <b>2012</b> , 55, 18-26	5.2	155
833	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. <i>Nano Energy</i> , <b>2019</b> , 66, 104143	17.1	154
832	Anticorrosive conductive polyurethane multiwalled carbon nanotube nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10805	13	152
831	Enhanced electrical conductivity and piezoresistive sensing in multi-wall carbon nanotubes/polydimethylsiloxane nanocomposites via the construction of a self-segregated structure. <i>Nanoscale</i> , <b>2017</b> , 9, 11017-11026	7.7	151
830	Polyaniline stabilized magnetite nanoparticle reinforced epoxy nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 5613-24	9.5	151
829	Electrically Insulated Epoxy Nanocomposites Reinforced with Synergistic Core/Shell SiO <sub>2</sub> @MWCNTs and Montmorillonite Bifillers. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1700357	2.6	150
828	Interfacially reinforced unsaturated polyester carbon fiber composites with a vinyl ester-carbon nanotubes sizing agent. <i>Composites Science and Technology</i> , <b>2018</b> , 164, 195-203	8.6	149
827	Ultrathin high-performance electromagnetic wave absorbers with facilely fabricated hierarchical porous Co/C crabapples. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 1659-1669	7.1	148
826	Tuning the performance of polypyrrole-based solvent-resistant composite nanofiltration membranes by optimizing polymerization conditions and incorporating graphene oxide. <i>Journal of Membrane Science</i> , <b>2014</b> , 452, 82-89	9.6	148
825	Interfacial polymerized polyaniline/graphite oxide nanocomposites toward electrochemical energy storage. <i>Polymer</i> , <b>2012</b> , 53, 5953-5964	3.9	148
824	Triple layered core/shell ZVI@carbon@polyaniline composite enhanced electron utilization in Cr(VI) reduction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11119-11128	13	146
823	Tunneling-induced negative permittivity in Ni/MnO nanocomposites by a bio-gel derived strategy. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3029-3039	7.1	146
822	Crosslinked norbornene copolymer anion exchange membrane for fuel cells. <i>Journal of Membrane Science</i> , <b>2018</b> , 556, 118-125	9.6	145
821	Electrospun titania nanofibers segregated by graphene oxide for improved visible light photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 201, 470-478	21.8	145
820	Polyaniline Coated Ethyl Cellulose with Improved Hexavalent Chromium Removal. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2070-2080	8.3	144
819	Synthetic process engineered polyaniline nanostructures with tunable morphology and physical properties. <i>Polymer</i> , <b>2012</b> , 53, 2109-2120	3.9	144
818	Superlyophobic anti-corrosive and self-cleaning titania robust mesh membrane with enhanced oil/water separation. <i>Separation and Purification Technology</i> , <b>2018</b> , 201, 193-204	8.3	143

817	Cellulose derived magnetic mesoporous carbon nanocomposites with enhanced hexavalent chromium removal. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17454-17462	13	143
816	Super light 3D hierarchical nanocellulose aerogel foam with superior oil adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 536, 245-251	9.3	143
815	Polyaniline-tungsten oxide metacomposites with tunable electronic properties. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 342-348		142
814	Multistimuli-Responsive Intrinsic Self-Healing Epoxy Resin Constructed by Host-Guest Interactions. <i>Macromolecules</i> , <b>2018</b> , 51, 5294-5303	5.5	140
813	Epoxy resin nanosuspensions and reinforced nanocomposites from polyaniline stabilized multi-walled carbon nanotubes. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 729-743	7.1	140
812	Coaxial electrospun fibers: applications in drug delivery and tissue engineering. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2016</b> , 8, 654-77	9.2	139
811	Flexible Sandwich Structural Strain Sensor Based on Silver Nanowires Decorated with Self-Healing Substrate. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900074	3.9	138
810	Rheological behaviors and electrical conductivity of epoxy resin nanocomposites suspended with in-situ stabilized carbon nanofibers. <i>Polymer</i> , <b>2010</b> , 51, 2643-2651	3.9	138
809	Overview of polymer nanocomposites: Computer simulation understanding of physical properties. <i>Polymer</i> , <b>2017</b> , 133, 272-287	3.9	137
808	Nanocomposite organic solvent nanofiltration membranes by a highly-efficient mussel-inspired co-deposition strategy. <i>Journal of Membrane Science</i> , <b>2017</b> , 526, 32-42	9.6	136
807	3-D magnetic graphene oxide-magnetite poly(vinyl alcohol) nanocomposite substrates for immobilizing enzyme. <i>Polymer</i> , <b>2018</b> , 149, 13-22	3.9	136
806	Strengthened magnetic epoxy nanocomposites with protruding nanoparticles on the graphene nanosheets. <i>Polymer</i> , <b>2013</b> , 54, 3594-3604	3.9	136
805	Fabrication, characterization and microwave properties of polyurethane nanocomposites reinforced with iron oxide and barium titanate nanoparticles. <i>Acta Materialia</i> , <b>2009</b> , 57, 267-277	8.4	136
804	Fabrication and characterization of iron oxide nanoparticles reinforced vinyl-ester resin nanocomposites. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1513-1520	8.6	136
803	Zinc oxide/vanadium pentoxide heterostructures with enhanced day-night antibacterial activities. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 547, 40-49	9.3	135
802	An overview of metamaterials and their achievements in wireless power transfer. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2925-2943	7.1	135
801	Electrically conductive polypropylene nanocomposites with negative permittivity at low carbon nanotube loading levels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6125-38	9.5	134
800	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42594-42606	9.5	134



799	Electrical and dielectric properties of polyaniline/Al <sub>2</sub> O <sub>3</sub> nanocomposites derived from various Al <sub>2</sub> O <sub>3</sub> nanostructures. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3952		134
798	2D Protein Supramolecular Nanofilm with Exceptionally Large Area and Emergent Functions. <i>Advanced Materials</i> , <b>2016</b> , 28, 7414-23	24	134
797	Trace electrospayed nanopolystyrene facilitated dispersion of multiwalled carbon nanotubes: Simultaneously strengthening and toughening epoxy. <i>Carbon</i> , <b>2019</b> , 142, 131-140	10.4	133
796	Tunable Negative Permittivity in Flexible Graphene/PDMS Metacomposites. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23635-23642	3.8	132
795	Progress on the Photocatalytic Reduction Removal of Chromium Contamination. <i>Chemical Record</i> , <b>2019</b> , 19, 873-882	6.6	132
794	Radio frequency negative permittivity in random carbon nanotubes/alumina nanocomposites. <i>Nanoscale</i> , <b>2017</b> , 9, 5779-5787	7.7	131
793	Carbon-coated MnO microparticulate porous nanocomposites serving as anode materials with enhanced electrochemical performances. <i>Nano Energy</i> , <b>2014</b> , 9, 41-49	17.1	131
792	Graphene oxide cross-linked chitosan nanocomposite membrane. <i>Applied Surface Science</i> , <b>2013</b> , 280, 989-992	6.7	131
791	Superhydrophobic Shish-kebab Membrane with Self-Cleaning and Oil/Water Separation Properties. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9866-9875	8.3	130
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789	Polyethylenimine facilitated ethyl cellulose for hexavalent chromium removal with a wide pH range. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19816-24	9.5	130
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786	Morphological regulation improved electrical conductivity and electromagnetic interference shielding in poly(L-lactide)/poly( $\epsilon$ -caprolactone)/carbon nanotube nanocomposites via constructing stereocomplex crystallites. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2807-2817	7.1	129
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784	Thermoplastic polyurethane-carbon black nanocomposite coating: Fabrication and solid particle erosion resistance. <i>Polymer</i> , <b>2018</b> , 158, 381-390	3.9	129
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782	Mesoporous magnetic carbon nanocomposite fabrics for highly efficient Cr(VI) removal. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2256-2265	13	127

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778	Sol-gel synthesized hexagonal boron nitride/titania nanocomposites with enhanced photocatalytic activity. <i>Applied Surface Science</i> , <b>2019</b> , 465, 154-163	6.7	125
777	Tuning polyaniline nanostructures via end group substitutions and their morphology dependent electrochemical performances. <i>Polymer</i> , <b>2018</b> , 156, 128-135	3.9	125
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773	Magnetic field induced capacitance enhancement in graphene and magnetic graphene nanocomposites. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 194-204	35.4	122
772	Anthraquinone on Porous Carbon Nanotubes with Improved Supercapacitor Performance. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8262-8270	3.8	121
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768	Magnetic nanocomposites for environmental remediation. <i>Advanced Powder Technology</i> , <b>2013</b> , 24, 459-467	4.7	118
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529	Tunable magnetoresistance of core-shell structured polyaniline nanocomposites with 0-, 1-, and 2-dimensional nanocarbons. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 51-64	8.7	47
528	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. <i>Carbon</i> , <b>2017</b> , 115, 503-514	10.4	46
527	Enhanced electromagnetic wave absorbing nickel (Oxide)-Carbon nanocomposites. <i>Ceramics International</i> , <b>2019</b> , 45, 24474-24486	5.1	46
526	All-Printed Solid-State Microsupercapacitors Derived from Self-Template Synthesis of Ag@PPy Nanocomposites. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700206	6.8	46
525	Carboxyl Multiwalled Carbon-Nanotube-Stabilized Palladium Nanocatalysts toward Improved Methanol Oxidation Reaction. <i>ChemElectroChem</i> , <b>2015</b> , 2, 559-570	4.3	46
524	Magnetic electrospun fluorescent polyvinylpyrrolidone nanocomposite fibers. <i>Polymer</i> , <b>2012</b> , 53, 4501-4511	4.5	46
523	Titanium Surface Priming with Phase-Transited Lysozyme to Establish a Silver Nanoparticle-Loaded Chitosan/Hyaluronic Acid Antibacterial Multilayer via Layer-by-Layer Self-Assembly. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146957	3.7	46
522	Sandwich structured WO <sub>3</sub> nanoplatelets for highly efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26077-26088	13	46
521	Electrospun iron/cobalt alloy nanoparticles on carbon nanofibers towards exhaustive electrocatalytic degradation of tetracycline in wastewater. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126583	14.7	46
520	Poly(sulfur-random-(1,3-diisopropenylbenzene)) based mid-wavelength infrared polarizer: Optical property experimental and theoretical analysis. <i>Polymer</i> , <b>2019</b> , 176, 118-126	3.9	45
519	Porous ternary TiO <sub>2</sub> /MnTiO <sub>3</sub> @C hybrid microspheres as anode materials with enhanced electrochemical performances. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23895-23904	13	45
518	Water-based rust converter and its polymer composites for surface anticorrosion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 537, 334-342	5.1	45
517	Iron-core carbon-shell nanoparticles reinforced electrically conductive magnetic epoxy resin nanocomposites with reduced flammability. <i>RSC Advances</i> , <b>2013</b> , 3, 9453	3.7	45
516	Oxidized regenerated cellulose-based hemostat with microscopically gradient structure. <i>Carbohydrate Polymers</i> , <b>2012</b> , 88, 1023-1032	10.3	45
515	Preparation and Characterization of Mesoporous CuO/ZSM-5 Catalysts for Automotive Exhaust Purification. <i>Science of Advanced Materials</i> , <b>2019</b> , 11, 1198-1205	2.3	45
514	A highly Li-conductive HfNbO anode material for superior Li storage. <i>Chemical Communications</i> , <b>2020</b> , 56, 619-622	5.8	45
513	Carbon dot-sensitized urchin-like Ti <sup>3+</sup> self-doped TiO <sub>2</sub> photocatalysts with enhanced photoredox ability for highly efficient removal of Cr <sup>6+</sup> and RhB. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2238-2247	7.1	45
512	Interfacial interaction enhancement by shear-induced $\beta$ -cylindrite in isotactic polypropylene/glass fiber composites. <i>Polymer</i> , <b>2016</b> , 100, 111-118	3.9	45



511	pH responsive antifouling and antibacterial multilayer films with Self-healing performance. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 130-141	14.7	45
510	Advanced composites of complex Ti-based oxides as anode materials for lithium-ion batteries. <i>Advanced Composites and Hybrid Materials</i> , <b>2018</b> , 1, 440-459	8.7	45
509	Boosting Multiple Interfaces by Co-Doped Graphene Quantum Dots for High Efficiency and Durability Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13941-13949	9.5	44
508	Electrochemical Lithium Doping Induced Property Changes In Halide Perovskite CsPbBr <sub>3</sub> Crystal. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 264-269	20.1	44
507	Magnetic and magnetoresistance behaviors of particulate iron/vinyl ester resin nanocomposites. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 014314	2.5	44
506	Displacement Synthesis of Cu Shells Surrounding Co Nanoparticles. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, D1	3.9	44
505	Polyaniline crystalline nanostructures dependent negative permittivity metamaterials. <i>Polymer</i> , <b>2020</b> , 188, 122129	3.9	44
504	Achieving carbon-rich silicon-containing ceramic anode for advanced lithium ion battery. <i>Ceramics International</i> , <b>2019</b> , 45, 10572-10580	5.1	43
503	Transparent anhydride-cured epoxy nanocomposites reinforced with polyaniline stabilized nanosilica. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8152-8165	7.1	43
502	Improved extraction of cobalt and lithium by reductive acid from spent lithium-ion batteries via mechanical activation process. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 13790-13800	4.3	43
501	Hierarchical Fe <sub>3</sub> O <sub>4</sub> Core-Shell Layered Double Hydroxide Composites as Magnetic Adsorbents for Anionic Dye Removal from Wastewater. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 4182-4191	2.3	43
500	Formic acid oxidation reaction on a Pd <sub>x</sub> Ni <sub>y</sub> bimetallic nanoparticle catalyst prepared by a thermal decomposition process using ionic liquids as the solvent. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7326-7337	6.7	43
499	Swelling behaviors of porous lignin based poly (acrylic acid). <i>Chemosphere</i> , <b>2016</b> , 163, 610-619	8.4	43
498	Polypyrrole/reduced graphene aerogel film for wearable piezoresistive sensors with high sensing performances. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 86-95	8.7	43
497	Strengthened epoxy resin with hyperbranched polyamine-ester anchored graphene oxide via novel phase transfer approach. <i>Advanced Composites and Hybrid Materials</i> , <b>2018</b> , 1, 300-309	8.7	43
496	Recent Progress in Essential Functions of Soft Electronic Skin. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104686	15.6	43
495	Remarkably Strengthened microinjection molded linear low-density polyethylene (LLDPE) via multi-walled carbon nanotubes derived nanohybrid shish-kebab structure. <i>Composites Part B: Engineering</i> , <b>2019</b> , 167, 362-369	10	42
494	Enhancing Electrochemical Performances of TiO <sub>2</sub> Porous Microspheres through Hybridizing with FeTiO <sub>3</sub> and Nanocarbon. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 556-565	6.7	42

493	Efficient bifunctional Co/N dual-doped carbon electrocatalysts for oxygen reduction and evolution reaction. <i>Carbon</i> , <b>2019</b> , 153, 575-584	10.4	42
492	Remarkably anisotropic conductive MWCNTs/polypropylene nanocomposites with alternating microlayers. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 924-935	14.7	42
491	Extracellular Polymeric Substances Induced Porous Polyaniline for Enhanced Cr(VI) Removal from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 11788-11796	8.3	41
490	Enhanced Solid Particle Erosion Properties of Thermoplastic Polyurethane-Carbon Nanotube Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900010	3.9	41
489	Interfacial Engineering for High-Efficiency Nanorod Array-Structured Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33770-33780	9.5	41
488	Catalytic and synergistic effects on thermal stability and combustion behavior of polypropylene: influence of maleic anhydride grafted polypropylene stabilized cobalt nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13064	13	41
487	Tunable positive magnetoresistance of magnetic polyaniline nanocomposites. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 534-542	8.7	41
486	Heterogeneous interface induced formation of balsam pear-like PPy for high performance supercapacitors. <i>Materials Letters</i> , <b>2019</b> , 244, 27-30	3.3	41
485	Zwitterionic glycine modified Fe/Mg-layered double hydroxides for highly selective and efficient removal of oxyanions from polluted water. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 51, 8-15	9.1	40
484	Synergies among the self-assembled nucleating agent and the sheared isotactic polypropylene matrix. <i>Polymer</i> , <b>2015</b> , 60, 40-49	3.9	40
483	Very large magnetoresistive graphene disk with negative permittivity. <i>Nanoscale</i> , <b>2012</b> , 4, 152-6	7.7	40
482	Emerging flexible sensors based on nanomaterials: recent status and applications. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25499-25527	13	40
481	Efficient intrinsic self-healing epoxy acrylate formed from host-guest chemistry. <i>Polymer</i> , <b>2019</b> , 164, 79-85	3.9	40
480	Microwave hydrothermal synthesized ZnIn-layered double hydroxides derived ZnIn-layered double oxides for enhanced methylene blue photodegradation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 592, 124588	5.1	39
479	Ultrafast Recovery of Uranium from Seawater by Strain UUS-1 with Innate Anti-Biofouling Activity. <i>Advanced Science</i> , <b>2019</b> , 6, 1900961	13.6	39
478	Magnetic carbon nanostructures: microwave energy-assisted pyrolysis vs. conventional pyrolysis. <i>Chemical Communications</i> , <b>2013</b> , 49, 258-60	5.8	39
477	Facile monomer stabilization approach to fabricate iron/vinyl ester resin nanocomposites. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 2551-2556	8.6	39
476	Hydrophobic Electrospun Polyimide Nanofibers for Self-cleaning Materials. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 358-368	3.9	38

475	Enhanced mechanical properties and anti-hydrothermal ageing behaviors of unsaturated polyester composites by carbon fibers interfaced with POSS. <i>Composites Science and Technology</i> , <b>2015</b> , 117, 168-175	8.6	38
474	Electropolymerized Polypyrrole Nanocoatings on Carbon Paper for Electrochemical Energy Storage. <i>ChemElectroChem</i> , <b>2015</b> , 2, 119-126	4.3	38
473	Adsorption of acid red from dye wastewater by Zn <sub>2</sub> Al-NO <sub>3</sub> LDHs and the resource of adsorbent sludge as nanofiller for polypropylene. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 587, 99-104	5.7	38
472	A novel gel-casting strategy to synthesize TiO <sub>2</sub> nanorod combining reduced graphene oxide composites. <i>Materials Letters</i> , <b>2013</b> , 107, 307-310	3.3	38
471	Looped carbon capturing and environmental remediation: case study of magnetic polypropylene nanocomposites. <i>RSC Advances</i> , <b>2012</b> , 2, 4844	3.7	38
470	Cyclic Voltammetric Preparation of Palladium Nanoparticles for Ethanol Oxidation Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 11415-11420	3.9	38
469	Research progress in rare earths and their composites based electrode materials for supercapacitors. <i>Green Energy and Environment</i> , <b>2020</b> , 5, 259-273	5.7	38
468	Hydrogen bonding derived self-healing polymer composites reinforced with amidation carbon fibers. <i>Nanotechnology</i> , <b>2020</b> , 31, 025704	3.4	37
467	Preparation and hydrogen storage of Pd/MIL-101 nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 772, 186-192	5.7	37
466	Polyaniline Assisted Uniform Dispersion for Magnetic Ultrafine Barium Ferrite Nanorods Reinforced Epoxy Metacomposites with Tailorable Negative Permittivity. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 13265-13273	3.8	36
465	Processing conditions dependent tunable negative permittivity in reduced graphene oxide-alumina nanocomposites. <i>Ceramics International</i> , <b>2019</b> , 45, 17784-17792	5.1	36
464	Carbon coated manganese monoxide octahedron negative-electrode for lithium-ion batteries with enhanced performance. <i>RSC Advances</i> , <b>2015</b> , 5, 34566-34571	3.7	36
463	Polypropylene/Mg <sub>3</sub> Al <sub>2</sub> (OH) <sub>6</sub> Co <sup>2+</sup> LDH nanocomposites with enhanced thermal stability, UV absorption, and rheological properties. <i>RSC Advances</i> , <b>2013</b> , 3, 26017	3.7	36
462	Epoxy resin nanocomposites reinforced with ionized liquid stabilized carbon nanotubes. <i>International Journal of Smart and Nano Materials</i> , <b>2011</b> , 2, 176-193	3.6	36
461	Sodium alginate templated hydroxyapatite/calcium silicate composite adsorbents for efficient dye removal from polluted water. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 141, 1035-1043	7.9	35
460	Low optical dosage heating-reduced viscosity for fast and large-scale cleanup of spilled crude oil by reduced graphene oxide melamine nanocomposite adsorbents. <i>Nanotechnology</i> , <b>2020</b> , 31, 225402	3.4	35
459	Polyaniline nanocomposites with negative permittivity. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 2238-2244	2.9	35
458	Hexavalent chromium synthesized polyaniline nanostructures: Magnetoresistance and electrochemical energy storage behaviors. <i>Polymer</i> , <b>2013</b> , 54, 5974-5985	3.9	35

457	Giant magnetoresistance in non-magnetic phosphoric acid doped polyaniline silicon nanocomposites with higher magnetic field sensing sensitivity. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10866-75	3.6	35
456	Optimization of Epoxyepine Synthesis by Silicotungstic Acid Supported on SBA-15 Catalyst Using Response Surface Methodology. <i>Science of Advanced Materials</i> , <b>2019</b> , 11, 699-707	2.3	35
455	Magnetic NiFe <sub>2</sub> O <sub>4</sub> /Polypyrrole nanocomposites with enhanced electromagnetic wave absorption. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 108, 64-72	9.1	35
454	Research progress for plastic waste management and manufacture of value-added products. <i>Advanced Composites and Hybrid Materials</i> , <b>2020</b> , 3, 443-461	8.7	35
453	Nanocellulose nanocomposite aerogel towards efficient oil and organic solvent adsorption. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 459-468	8.7	35
452	Dielectric properties and magnetoresistance behavior of polyaniline coated carbon fabrics. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 3989-3998	7.1	34
451	Multi-walled carbon nanotubes composited with nanomagnetite for anodes in lithium ion batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 7237-7244	3.7	34
450	Micromechanical analysis of molecular orientation in high-temperature creep of polycarbonate. <i>Materials and Design</i> , <b>2018</b> , 144, 25-31	8.1	34
449	Carbon composite spun fibers with in situ formed multicomponent nanoparticles for a lithium-ion battery anode with enhanced performance. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9881-9889	13	34
448	Octagonal prism shaped lithium iron phosphate composite particles as positive electrode materials for rechargeable lithium-ion battery. <i>Electrochimica Acta</i> , <b>2014</b> , 146, 585-590	6.7	34
447	PtNi bimetallic composite nanocatalysts prepared by using multi-walled carbon nanotubes as reductants for ethanol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 17622-17633	6.7	34
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445	Fluorescent electrospun polyvinyl alcohol/[email protected] nanocomposite fibers. <i>Journal of Composite Materials</i> , <b>2013</b> , 47, 3175-3185	2.7	34
444	Enhanced flame retardancy of cotton fabrics with a novel intumescent flame-retardant finishing system. <i>Fibers and Polymers</i> , <b>2015</b> , 16, 388-396	2	33
443	Enhanced electrochemical performances of MoO <sub>2</sub> nanoparticles composited with carbon nanotubes for lithium-ion battery anodes. <i>RSC Advances</i> , <b>2015</b> , 5, 87286-87294	3.7	33
442	Controllable antibacterial and bacterially anti-adhesive surface fabricated by a bio-inspired beetle-like macromolecule. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 157, 553-560	7.9	33
441	Total Synthesis of Septedine and 7-Deoxyseptedine. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9025-9029	16.4	33
440	Weakly negative permittivity and low frequency dispersive behavior in graphene/epoxy metacomposites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 14745-14754	2.1	33

439	Positive and negative magnetoresistance phenomena observed in magnetic electrospun polyacrylonitrile-based carbon nanocomposite fibers. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 715-722	7.1	33
438	Electrospinning and microwave absorption of polyaniline/polyacrylonitrile/multiwalled carbon nanotubes nanocomposite fibers. <i>Fibers and Polymers</i> , <b>2014</b> , 15, 2290-2296	2	33
437	Solvent-free nanoalumina loaded nanocellulose aerogel for efficient oil and organic solvent adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 581, 299-306	9.3	33
436	PAA/alumina composites prepared with different molecular weight polymers and utilized as support for nickel-based catalyst. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 2325-2335	1.9	32
435	Ultrafast Cr(VI) removal from polluted water by microwave synthesized iron oxide submicron wires. <i>Chemical Communications</i> , <b>2014</b> , 50, 8036-9	5.8	32
434	Multi-interfaced graphene aerogel/polydimethylsiloxane metacomposites with tunable electrical conductivity for enhanced electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11748-11759	7.1	32
433	Multiwalled Carbon Nanotubes Compositated with Palladium Nanocatalysts for Highly Efficient Ethanol Oxidation. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, F755-F763	3.9	31
432	Synergistic carbon nanotube aerogel/Pt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3238-3244	13	31
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430	Novel process of coating Al on graphene involving organic aluminum accompanying microstructure evolution. <i>Materials Letters</i> , <b>2018</b> , 232, 202-205	3.3	31
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427	Recent Progress on Thermo-electrical Properties of Conductive Polymer Composites and Their Application in Temperature Sensors. <i>Engineered Science</i> , <b>2020</b> ,	3.8	31
426	2-(3,4-Epoxy) ethyltriethoxysilane-modified waterborne acrylic resin: Preparation and property analysis. <i>Polymer</i> , <b>2020</b> , 190, 122196	3.9	31
425	Optimizing nanocarbon shell in zero-valent iron nanoparticles for improved electron utilization in Cr(VI) reduction. <i>Chemosphere</i> , <b>2020</b> , 242, 125235	8.4	31
424	Metal organic framework-derived C-doped ZnO/TiO <sub>2</sub> nanocomposite catalysts for enhanced photodegradation of Rhodamine B. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 599, 566-576	9.3	31
423	Tung Oil-Based Modifier Toughening Epoxy Resin by Sacrificial Bonds. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17344-17353	8.3	30
422	Shear-induced interfacial sheath structure in isotactic polypropylene/glass fiber composites. <i>Polymer</i> , <b>2015</b> , 70, 326-335	3.9	30

4 <sup>21</sup>	Boosting ion dynamics through superwetttable leaf-like film based on porous g-C <sub>3</sub> N <sub>4</sub> nanosheets for ionogel supercapacitors. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	30
4 <sup>20</sup>	Uniaxial deformation of nanorod filled polymer nanocomposites: a coarse-grained molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16039-48	3.6	30
4 <sup>19</sup>	Microwave synthesized magnetic tubular carbon nanocomposite fabrics toward electrochemical energy storage. <i>Nanoscale</i> , <b>2013</b> , 5, 1825-30	7.7	30
4 <sup>18</sup>	Highly thermal conductive epoxy nanocomposites filled with 3D BN/C spatial network prepared by salt template assisted method. <i>Composites Part B: Engineering</i> , <b>2021</b> , 209, 108609	10	30
4 <sup>17</sup>	Bio-templated 3D porous graphitic carbon nitride hybrid aerogel with enhanced charge carrier separation for efficient removal of hazardous organic pollutants. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 366-375	9.3	29
4 <sup>16</sup>	Chromium(III) oxide carbon nanocomposites lithium-ion battery anodes with enhanced energy conversion performance. <i>Chemical Engineering Journal</i> , <b>2015</b> , 277, 186-193	14.7	29
4 <sup>15</sup>	Magnetoresistive polyaniline-silicon carbide metacomposites: plasma frequency determination and high magnetic field sensitivity. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 19536-43	3.6	29
4 <sup>14</sup>	Novel NaMoO <sub>4</sub> /ZnMoO <sub>4</sub> hybrid material as highly efficient CWAO catalyst for dye degradation at ambient conditions. <i>Scientific Reports</i> , <b>2014</b> , 4, 6797	4.9	29
4 <sup>13</sup>	Effective functionalization of carbon nanotubes for bisphenol F epoxy matrix composites. <i>Materials Research</i> , <b>2012</b> , 15, 510-516	1.5	29
4 <sup>12</sup>	Separating positive and negative magnetoresistance for polyaniline-silicon nanocomposites in variable range hopping regime. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 212403	3.4	29
4 <sup>11</sup>	Promoted Soot Oxidation by Doped K <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> Catalysts and NO Oxidation Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 8384-8388	3.9	29
4 <sup>10</sup>	Formation and structural characterization of potassium titanates and the potassium ion exchange property. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 1973-1977	5.1	29
4 <sup>09</sup>	Self-template biomass-derived nitrogen and oxygen co-doped porous carbon for symmetrical supercapacitor and dye adsorption. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 1413	8.7	29
4 <sup>08</sup>	Aluminum dihydric tripolyphosphate/polypyrrole-functionalized graphene oxide waterborne epoxy composite coatings for impermeability and corrosion protection performance of metals. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 780-792	8.7	29
4 <sup>07</sup>	Bimetallic metal-organic frameworks anchored corn-cob-derived porous carbon photocatalysts for synergistic degradation of organic pollutants. <i>Chemosphere</i> , <b>2020</b> , 259, 127389	8.4	28
4 <sup>06</sup>	Interfacial crystallization and mechanical property of isotactic polypropylene based single-polymer composites. <i>Polymer</i> , <b>2016</b> , 90, 18-25	3.9	28
4 <sup>05</sup>	Enhanced Methanol Oxidation with Annealed Atomic Layer Deposited Platinum Nanoparticles on Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F1-F10	3.9	28
4 <sup>04</sup>	Carbon Coating and Zn <sup>2+</sup> Doping of Magnetite Nanorods for Enhanced Electrochemical Energy Storage. <i>Electrochimica Acta</i> , <b>2014</b> , 148, 118-126	6.7	28

403	One-pot synthesis of size- and morphology-controlled 1-D iron oxide nanochains with manipulated magnetic properties. <i>Chemical Communications</i> , <b>2014</b> , 50, 201-3	5.8	28
402	Electrochemical Properties and Electrochromic Behaviors of the Sol-Gel Derived Tungsten Trioxide Thin Films. <i>Energy and Environment Focus</i> , <b>2013</b> , 2, 112-120		28
401	Enhanced toughness and shape memory behaviors of toughed epoxy resin. <i>High Performance Polymers</i> , <b>2012</b> , 24, 702-709	1.6	28
400	Toluene diisocyanate based phase-selective supramolecular oil gelator for effective removal of oil spills from polluted water. <i>Chemosphere</i> , <b>2016</b> , 153, 485-93	8.4	28
399	Synergetic coupling of Pd nanoparticles and amorphous MoS <sub>x</sub> toward highly efficient electrocatalytic hydrogen evolution reactions. <i>Applied Materials Today</i> , <b>2018</b> , 13, 158-165	6.6	28
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267	Toughened polyoxymethylene by polyolefin elastomer and glycidyl methacrylate grafted high-density polyethylene. <i>Polymer Engineering and Science</i> , <b>2017</b> , 57, 1119-1126	2.3	14
266	Investigation of small molecular weight poly(acrylic acid) adsorption on alumina. <i>Applied Surface Science</i> , <b>2015</b> , 345, 116-121	6.7	14
265	Binder-free CuS/ZnS/sodium alginate/rGO nanocomposite hydrogel electrodes for enhanced performance supercapacitors. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 162, 310-319	7.9	14
264	Simultaneous Reduction of Vanadium (V) and Chromium (VI) in Wastewater by Nanosized ZnWO <sub>4</sub> Photocatalysis. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 2847-52	1.3	14
263	Direct microscopic observation of shish-kebab structure in high-temperature electrospun iPP fibers. <i>Materials Letters</i> , <b>2016</b> , 172, 149-152	3.3	14
262	Synthesis of 3,4,5-trihydroxy-2-[(hydroxyimino) methyl] benzoic acid as a novel rust converter. <i>Green Chemistry Letters and Reviews</i> , <b>2017</b> , 10, 455-461	4.7	14
261	Multi-walled carbon nanotubes supported Pd composite nanoparticles hydrothermally produced from technical grade PdO precursor. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 1256-1265	6.7	14
260	Indium recovery from waste liquid crystal displays by polyvinyl chloride waste. <i>RSC Advances</i> , <b>2015</b> , 5, 102836-102843	3.7	14

259	Vinyl Ester Resin Nanocomposites Reinforced with Carbon Nanotubes Modified Basalt Fibers. <i>Science of Advanced Materials</i> , <b>2019</b> , 11, 1340-1347	2.3	14
258	Polydimethylsiloxane Resin Nanocomposite Coating with Alternating Multilayer Structure for Corrosion Protection Performance. <i>ES Materials &amp; Manufacturing</i> , <b>2020</b> ,	3.7	14
257	Microwave hydrothermally synthesized WO <sub>3</sub> /UiO-66 nanocomposites toward enhanced photocatalytic degradation of rhodamine B. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	14
256	An inverse opal CuNbO anode for high-performance Li storage. <i>Chemical Communications</i> , <b>2020</b> , 56, 7321-7324	5.8	14
255	Direct Observation of Stable Negative Capacitance in SrTiO <sub>3</sub> @BaTiO <sub>3</sub> Heterostructure. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901005	6.4	14
254	Self-Supported Iridium Oxide Nanostructures for Electrocatalytic Water Oxidation in Acidic Media. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 2-8	3.8	14
253	Immobilization of graphitic carbon nitride on wood surface via chemical crosslinking method for UV resistance and self-cleaning. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 286-293	8.7	14
252	Alternating Multilayer Structural Epoxy Composite Coating for Corrosion Protection of Steel. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1970035	3.9	14
251	Recent Advances in Carbon Nanotube Utilizations in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2004765	15.6	14
250	Hydrothermally synthesized Ti/Zr bimetallic MOFs derived N self-doped TiO <sub>2</sub> /ZrO <sub>2</sub> composite catalysts with enhanced photocatalytic degradation of methylene blue. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 623, 126629	5.1	14
249	Multi-factor analysis on thermal conductive property of metal-polymer composite microstructure heat exchanger. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 27-35	8.7	14
248	Preparation of 4,4'-diaminostilbene-2,2'-disulfonic acid intercalated LDH/polypropylene nanocomposites with enhanced UV absorption property. <i>Polymer Composites</i> , <b>2017</b> , 38, 1937-1947	3	13
247	Self-assembled nano-leaf/vein bionic structure of TiO/MoS composites for photoelectric sensors. <i>Nanoscale</i> , <b>2017</b> , 9, 18194-18201	7.7	13
246	Cobalt-catalyzed synthesis of N-containing heterocycles via cyclization of ortho-substituted anilines with CO <sub>2</sub> /H <sub>2</sub> . <i>Green Chemistry</i> , <b>2019</b> , 21, 1695-1701	10	13
245	Enhancing oriented crystals in injection-molded HDPE through introduction of pre-shear. <i>Materials &amp; Design</i> , <b>2015</b> , 78, 12-18		13
244	Effect of 3-aminopropyltriethoxysilane on the properties of cellulose acetate butyrate modified acrylic waterborne coatings. <i>Reactive and Functional Polymers</i> , <b>2020</b> , 154, 104657	4.6	13
243	Molecular orientation dependent dynamic viscoelasticity in uni-axially drawn polycarbonate. <i>Polymer Testing</i> , <b>2018</b> , 69, 528-535	4.5	13
242	Amorphous MnSiO <sub>3</sub> confined in graphene sheets for superior lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 804, 243-251	5.7	13

241	Highly Monodisperse Sub-microspherical Poly(glycidyl methacrylate) Nanocomposites with Highly Stabilized Gold Nanoparticles. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 1098-1106	2.6	13
240	The impact of electrode with carbon materials on safety performance of lithium-ion batteries: A review. <i>Carbon</i> , <b>2022</b> , 191, 448-470	10.4	13
239	The Properties and Preparation Methods of Different Boron Nitride Nanostructures and Applications of Related Nanocomposites. <i>Chemical Record</i> , <b>2020</b> , 20, 1314-1337	6.6	13
238	Monodisperse light color nanoparticle ink toward chromatic electrophoretic displays. <i>Nanoscale</i> , <b>2016</b> , 8, 10917-21	7.7	13
237	Aminated cassava residue-based magnetic microspheres for Pb(II) adsorption from wastewater. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 226-235	2.8	13
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235	Conductive polyaniline hydrogel enhanced methane production from anaerobic wastewater treatment. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 581, 314-322	9.3	13
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230	Photocatalytic Reduction of Carbon Dioxide over Quinacridone Nanoparticles Supported on Reduced Graphene Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 9636-9643	3.9	12
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225	Molecular NO <sub>2</sub> induced K <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> structure switching in the dry gas phase: lattice potassium reactivity. <i>Chemical Communications</i> , <b>2009</b> , 5284-6	5.8	12
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221	Environmentally friendly alternative to polyester polyol by corn straw on preparation of rigid polyurethane composite. <i>Composites Communications</i> , <b>2020</b> , 17, 109-114	6.7	12
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215	Mechanically Strengthened Polyamide 66 Nanofibers Bundles via Compositing With Polyvinyl Alcohol. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 212-219	3.9	11
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164	An Overview of Oxygen Reduction Electrocatalysts for Rechargeable Zinc-Air Batteries Enabled by Carbon and Carbon Composites. <i>Engineered Science</i> , <b>2021</b> ,	3.8	8
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149	Flower-like Hydroxyfluoride-Sensing Platform toward NO Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26278-26287	9.5	7
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147	A multifunctional pentlandite counter electrode toward efficient and stable sensitized solar cells. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 392-400	8.7	7
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123	Highly thermally conductive 3D BN/MWCNTs/C spatial network composites with improved electrically insulating and flame retardancy prepared by biological template assisted method. <i>Composites Part B: Engineering</i> , <b>2021</b> , 222, 109039	10	6
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