

Chuang-xi Xiong

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168
papers

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h-index

53
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176
ext. papers

4,731
ext. citations

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avg, IF

5.85
L-index

#	Paper	IF	Citations
168	Solution-processed ferroelectric terpolymer nanocomposites with high breakdown strength and energy density utilizing boron nitride nanosheets. <i>Energy and Environmental Science</i> , 2015 , 8, 922-931	35.4	415
167	High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture. <i>Advanced Functional Materials</i> , 2017 , 27, 1606292	15.6	232
166	Broadband and Lightweight Microwave Absorber Constructed by in Situ Growth of Hierarchical CoFeO/Reduced Graphene Oxide Porous Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13860-13868	9.5	152
165	Poly(methyl methacrylate)/boron nitride nanocomposites with enhanced energy density as high temperature dielectrics. <i>Composites Science and Technology</i> , 2017 , 142, 139-144	8.6	107
164	Cellulose nanofibril/boron nitride nanosheet composites with enhanced energy density and thermal stability by interfibrillar cross-linking through Ca ²⁺ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1403-1411	13	84
163	Solvent-free fluids based on rhombohedral nanoparticles of calcium carbonate. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9148-9	16.4	83
162	Flexible Regenerated Cellulose/Boron Nitride Nanosheet High-Temperature Dielectric Nanocomposite Films with High Energy Density and Breakdown Strength. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7151-7158	8.3	72
161	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer/graphene percolative composites. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7034	7.1	71
160	Enhancement of dielectric constant and piezoelectric coefficient of ceramic/polymer composites by interface chelation. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2817		71
159	Enhanced dielectric property and energy storage density of PVDF-HFP based dielectric composites by incorporation of silver nanoparticles-decorated exfoliated montmorillonite nanoplatelets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 108, 62-68	8.4	65
158	Supertough and ultrasensitive flexible electronic skin based on nanocellulose/sulfonated carbon nanotube hydrogel films. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6311-6318	13	61
157	Recent advances in cellulose-based piezoelectric and triboelectric nanogenerators for energy harvesting: a review. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1910-1937	13	61
156	Light-Soaking-Free Inverted Polymer Solar Cells with an Efficiency of 10.5% by Compositional and Surface Modifications to a Low-Temperature-Processed TiO Electron-Transport Layer. <i>Advanced Materials</i> , 2017 , 29, 1604044	24	60
155	Enhanced energy storage performance of ferroelectric polymer nanocomposites at relatively low electric fields induced by surface modified BaTiO ₃ nanofibers. <i>Composites Science and Technology</i> , 2018 , 164, 214-221	8.6	57
154	Aqueous preparation of polyethylene glycol/sulfonated graphene phase change composite with enhanced thermal performance. <i>Energy Conversion and Management</i> , 2013 , 75, 482-487	10.6	56
153	Poly(vinyl pyrrolidone)-coated graphene/poly(vinylidene fluoride) composite films with high dielectric permittivity and low loss. <i>Composites Science and Technology</i> , 2015 , 121, 49-55	8.6	54
152	Fluxible monodisperse quantum dots with efficient luminescence. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9943-6	16.4	52

151	Enhanced microwave absorption performance of porous and hollow CoNi@C microspheres with controlled component and morphology. <i>Journal of Alloys and Compounds</i> , 2019 , 809, 151837	5.7	51
150	Proton exchange membrane based on chitosan and solvent-free carbon nanotube fluids for fuel cells applications. <i>Carbohydrate Polymers</i> , 2018 , 186, 200-207	10.3	51
149	Polyamide 11/Poly(vinylidene fluoride) Blends as Novel Flexible Materials for Capacitors. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1449-1454	4.8	46
148	Controlled viscoelastic carbon nanotube fluids. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3256-3264	6.4	45
147	Ternary PVDF-based terpolymer nanocomposites with enhanced energy density and high power density. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 109, 597-603	8.4	41
146	A three-dimensional graphene aerogel containing solvent-free polyaniline fluid for high performance supercapacitors. <i>Nanoscale</i> , 2017 , 9, 17710-17716	7.7	40
145	NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 96205-96212	3.7	39
144	Significant Improvements in Dielectric Constant and Energy Density of Ferroelectric Polymer Nanocomposites Enabled by Ultralow Contents of Nanofillers. <i>Advanced Materials</i> , 2021 , 33, e2102392	24	39
143	Multilayer assembly of electrospun/electrosprayed PVDF-based nanofibers and beads with enhanced piezoelectricity and high sensitivity. <i>Chemical Engineering Journal</i> , 2020 , 388, 124205	14.7	37
142	Conductive mechanism of antistatic poly(ethylene terephthalate)/ZnOw composites. <i>Polymer Composites</i> , 2009 , 30, 226-231	3	37
141	High-performance nanogenerators based on flexible cellulose nanofibril/MoS2 nanosheet composite piezoelectric films for energy harvesting. <i>Nano Energy</i> , 2021 , 80, 105541	17.1	36
140	Transparent and flexible cellulose dielectric films with high breakdown strength and energy density. <i>Energy Storage Materials</i> , 2020 , 26, 105-111	19.4	35
139	Flexible dielectric film with high energy density based on chitin/boron nitride nanosheets. <i>Chemical Engineering Journal</i> , 2020 , 383, 123147	14.7	35
138	Flexible Cellulose/BaTiO3 Nanocomposites with High Energy Density for Film Dielectric Capacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10641-10648	8.3	34
137	Latent heat and thermal conductivity enhancements in polyethylene glycol/polyethylene glycol-grafted graphene oxide composites. <i>Advanced Composites and Hybrid Materials</i> , 2019 , 2, 471-480	8.7	32
136	In situ growth of 1T-MoS2 on liquid-exfoliated graphene: A unique graphene-like heterostructure for superior lithium storage. <i>Carbon</i> , 2018 , 133, 162-169	10.4	32
135	Carbonized Cellulose Nanofibril/Graphene Oxide Composite Aerogels for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1145-1151	6.1	29
134	A binary solvent system for improved liquid phase exfoliation of pristine graphene materials. <i>Carbon</i> , 2015 , 94, 405-411	10.4	28

133	Largely enhanced energy storage performance of sandwich-structured polymer nanocomposites with synergistic inorganic nanowires. <i>Ceramics International</i> , 2019 , 45, 8216-8221	5.1	28
132	High breakdown strength and low loss binary polymer blends of poly(vinylidene fluoride-trifluoroethylene-chlorofluoroethylene) and poly(methyl methacrylate). <i>Polymers for Advanced Technologies</i> , 2018 , 29, 1271-1277	3.2	26
131	Synthesis of EVA-g-MAH and its compatibilization effect to PA11/PVC blends. <i>Journal of Materials Science</i> , 2007 , 42, 3398	4.3	26
130	Fe ³⁺ Cross-Linked Polyaniline/Cellulose Nanofibril Hydrogels for High-Performance Flexible Solid-State Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17653-17660	8.3	25
129	Facile preparation and thermal performances of hexadecanol/crosslinked polystyrene core/shell nanocapsules as phase change material. <i>Polymer Composites</i> , 2014 , 35, 2154-2158	3	25
128	Self-unfolded graphene sheets. <i>Chemistry - A European Journal</i> , 2012 , 18, 7055-9	4.8	25
127	TEMPO-oxidized cellulose nanofibril/layered double hydroxide nanocomposite films with improved hydrophobicity, flame retardancy and mechanical properties. <i>Composites Science and Technology</i> , 2019 , 171, 111-117	8.6	25
126	Enhanced breakdown strength and energy storage of PVDF-based dielectric composites by incorporating exfoliated mica nanosheets. <i>Polymer Composites</i> , 2019 , 40, 2088-2094	3	25
125	Luminescent and Transparent Nanocellulose Films Containing Europium Carboxylate Groups as Flexible Dielectric Materials. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4972-4979	5.6	25
124	Doubly cross-linked nanocellulose hydrogels with excellent mechanical properties. <i>Cellulose</i> , 2019 , 26, 8645-8654	5.5	23
123	Carboxylated nanocellulose/poly(ethylene oxide) composite films as solid-solid phase-change materials for thermal energy storage. <i>Carbohydrate Polymers</i> , 2019 , 225, 115215	10.3	23
122	A carbon black derivative with liquid behavior. <i>Carbon</i> , 2011 , 49, 1047-1051	10.4	23
121	Solution-processed Graphene-MoS ₂ heterostructure for efficient hole extraction in organic solar cells. <i>Carbon</i> , 2019 , 142, 156-163	10.4	23
120	Chitin/MoS Nanosheet Dielectric Composite Films with Significantly Enhanced Discharge Energy Density and Efficiency. <i>Biomacromolecules</i> , 2020 , 21, 2929-2937	6.9	22
119	Facile fabrication of Fe ₃ O ₄ nanoparticle/carbon nanofiber aerogel from Fe-ion cross-linked cellulose nanofibrils as anode for lithium-ion battery with superhigh capacity. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154541	5.7	22
118	Flexible Carbon Nanotube Modified Separator for High-Performance Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2017 , 7,	5.4	22
117	Preparation of Microporous Polypropylene/Titanium Dioxide Composite Membranes with Enhanced Electrolyte Uptake Capability via Melt Extruding and Stretching. <i>Polymers</i> , 2017 , 9,	4.5	22
116	Colloidal stable quantum dots modified by dual functional group polymers for inkjet printing. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4629-4635	7.1	21

115	Electrically insulating ZnOs/ZnOw/silicone rubber nanocomposites with enhanced thermal conductivity and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46454	2.9	21
114	Flexible cellulose nanofibril/pristine graphene nanocomposite films with high electrical conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 119, 119-126	8.4	20
113	Enhanced piezoelectricity of a PVDF-based nanocomposite utilizing high-yield dispersions of exfoliated few-layer MoS ₂ . <i>Ceramics International</i> , 2019 , 45, 11347-11352	5.1	20
112	Novel Three-Dimensional Carbon Nanotube-Graphene Architecture with Abundant Chambers and Its Application in Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13807-13814	3.8	20
111	Flexible electronic skin sensor based on regenerated cellulose/carbon nanotube composite films. <i>Cellulose</i> , 2020 , 27, 10199-10211	5.5	20
110	Facile dissolution of wood pulp in aqueous NaOH/urea solution by ball milling pretreatment. <i>Industrial Crops and Products</i> , 2018 , 118, 48-52	5.9	19
109	Bright perovskite light-emitting diodes with improved film morphology and reduced trap density via surface passivation using quaternary ammonium salts. <i>Organic Electronics</i> , 2019 , 67, 187-193	3.5	18
108	Facile preparation of pristine graphene using urea/glycerol as efficient stripping agents. <i>Nano Research</i> , 2018 , 11, 820-830	10	18
107	Ultrahigh charge-discharge efficiency and enhanced energy density of the sandwiched polymer nanocomposites with poly(methyl methacrylate) layer. <i>Composites Science and Technology</i> , 2021 , 202, 108591	8.6	18
106	Facile one-step exfoliation of large-size 2D materials via simply shearing in triethanolamine. <i>Materials Letters</i> , 2017 , 199, 124-127	3.3	17
105	Particle Size Dependence of the Dielectric Properties of Polyvinylidene Fluoride/Silver Composites. <i>Journal of Macromolecular Science - Physics</i> , 2013 , 52, 1073-1081	1.4	17
104	Dielectric properties and energy-storage performance of two-dimensional molybdenum disulfide nanosheets/polyimide composite films. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47991	2.9	16
103	Phytic acid modified manganese dioxide/graphene composite aerogel as high-performance electrode materials for supercapacitors. <i>Applied Surface Science</i> , 2019 , 495, 143589	6.7	16
102	A novel fluid-filler/polymer composite as high-temperature thermally conductive and electrically insulating material. <i>Composites Science and Technology</i> , 2017 , 150, 128-134	8.6	16
101	Influence of Polyhedral Oligomeric Silsesquioxanes (POSS) on Thermal and Mechanical Properties of Polydimethylsiloxane (PDMS) Composites Filled with Fumed Silica. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013 , 23, 1375-1382	3.2	16
100	Constructing enhanced pseudocapacitive Li ⁺ intercalation via multiple ionically bonded interfaces toward advanced lithium storage. <i>Energy Storage Materials</i> , 2020 , 24, 138-146	19.4	16
99	Self-suspended polyaniline doped with a protonic acid containing a polyethylene glycol segment. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 2920-4	4.5	15
98	Significantly enhancing the dielectric constant and breakdown strength of linear dielectric polymers by utilizing ultralow loadings of nanofillers. <i>Journal of Materials Chemistry A</i> ,	13	15

97	Transparent konjac glucomannan/cellulose nanofibril composite films with improved mechanical properties and thermal stability. <i>Cellulose</i> , 2019 , 26, 3155-3165	5.5	14
96	Carbon nanofibril composites with high sulfur loading fabricated from nanocellulose for high-performance lithium-sulfur batteries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125249	5.1	14
95	The construction of rod-like polypyrrole network on hard magnetic porous textile anodes for microbial fuel cells with ultra-high output power density. <i>Journal of Power Sources</i> , 2019 , 412, 514-519	8.9	14
94	Polytriphenylamine derivative with enhanced electrochemical performance as the organic cathode material for rechargeable batteries. <i>Polymer</i> , 2017 , 130, 135-142	3.9	13
93	Improved Performance of Perovskite Light-Emitting Diodes by Dual Passivation with an Ionic Additive. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3336-3342	6.1	13
92	The Complexation between Amide Groups of Polyamide-6 and Polysulfides in the Lithium Sulfur Battery. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700122	3.9	12
91	Phase change-induced tunable dielectric permittivity of poly(vinylidene fluoride)/polyethylene glycol/graphene oxide composites. <i>Composites Part B: Engineering</i> , 2019 , 173, 106920	10	12
90	Flexible MoS ₂ @electrospun PVDF hybrid membrane as advanced anode for lithium storage. <i>Chemical Engineering Journal</i> , 2019 , 370, 547-555	14.7	12
89	Main-chain azo polyaramides with high thermal stability and liquid crystal properties. <i>Journal of Polymer Research</i> , 2009 , 16, 455-460	2.7	12
88	Preparation and structural characterization of nanocrystalline poly(vinyl chloride). <i>Journal of Applied Polymer Science</i> , 2004 , 91, 563-569	2.9	12
87	Graphene/poly(vinylidene fluoride) dielectric composites with polydopamine as interface layers. <i>Science and Engineering of Composite Materials</i> , 2017 , 24, 327-333	1.5	11
86	Preparation and characterization of monodisperse solvent-free silica nanofluids. <i>Journal of Dispersion Science and Technology</i> , 2017 , 38, 425-431	1.5	11
85	High-Energy-Density Flexible Dielectric Film via One-Step Extrusion Processing. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 664-671	4.3	11
84	Co ₃ O ₄ /C/graphene nanocomposites as novel anode materials for high capacity lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 73677-73683	3.7	11
83	Microstructure and properties of fluoroelastomer/butadiene-acrylonitrile rubber interpenetrating polymer networks. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008 , 23, 50-53	1	11
82	Necklace-like ferrous oxide (FeO) nanoparticle/carbon nanofibril aerogels with enhanced lithium storage by carbonization of ferric alginate. <i>Journal of Colloid and Interface Science</i> , 2020 , 576, 119-126	9.3	11
81	Ultraviolet light aging properties of PVC/CaCO ₃ composites. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2749-2756	2.9	10
80	Novel-modified kaolin for enhancing the mechanical and thermal properties of poly(vinyl chloride). <i>Polymer Engineering and Science</i> , 2012 , 52, 2071-2077	2.3	10

79	Synthesis and characterization of novel fluorinated azopolyamides. <i>Polymer Bulletin</i> , 2008 , 61, 569-580	2.4	10
78	Preparation and properties of compatibilized PVC/SMA-g-PA6 blends. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 432-439	2.9	10
77	In-situ synthesis of flexible nanocellulose/carbon nanotube/polypyrrole hydrogels for high-performance solid-state supercapacitors. <i>Cellulose</i> , 2021 , 28, 7097-7108	5.5	10
76	Ordered porous structure of nitrogen-self-doped carbon supporting Co ₃ O ₄ nanoparticles as anode for improving cycle stability in lithium-ion batteries. <i>Journal of Materials Research</i> , 2018 , 33, 1226-1235	2.5	9
75	Structure-Property Relationship in Injection-Molded Polypropylene/Clay Composite Foams. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 160-165	4.1	9
74	Properties of gel polymer electrolytes based on poly(butyl acrylate) semi-interpenetrating polymeric networks toward Li-ion batteries. <i>Ionics</i> , 2017 , 23, 2319-2325	2.7	8
73	In-site synthesis of monodisperse, oleylamine-capped Ag nanoparticles through microemulsion approach. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	8
72	Enhancement of Polymer Foam Quality by Modifying Structural and Decomposition Characteristics of Chemical Blowing Agent. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 263-267		8
71	Incorporation of elaborately Synthesized BNNSs by a mild mechanical stirring process for the concurrent enhancement of thermal conductivity and dielectric breakdown strength of PVDF. <i>Composites Science and Technology</i> , 2020 , 200, 108381	8.6	8
70	Mixed solvent-mediated exfoliation of graphene invoked by synergistic effect of steric hindrance and hydrogen bond for improved electrochemical performance on its polymeric composites. <i>Electrochimica Acta</i> , 2018 , 283, 818-825	6.7	7
69	Liquid-crystal azopolyamides with high thermal stability and inherent viscosity. <i>Journal of Materials Science</i> , 2011 , 46, 3343-3348	4.3	7
68	Fluxible Monodisperse Quantum Dots with Efficient Luminescence. <i>Angewandte Chemie</i> , 2010 , 122, 10139-10142	3.6	7
67	Facile self-assembling of three-dimensional graphene/solvent free carbon nanotubes fluid framework for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153157	5.7	7
66	Few-layer MoS ₂ nanosheets anchored by CNT network for superior lithium storage. <i>Electrochimica Acta</i> , 2020 , 331, 135392	6.7	7
65	Eco-friendly exfoliation of graphite into pristine graphene with little defect by a facile physical treatment. <i>Applied Physics Letters</i> , 2016 , 108, 073105	3.4	7
64	Synthesis and Characterization of a Fluid-Like Novel Aniline Pentamer. <i>Macromolecular Research</i> , 2018 , 26, 233-237	1.9	6
63	Morphological, thermal, and mechanical properties of poly(vinyl chloride)/acrylonitrile butadiene rubber blend using CuSO ₄ ·H ₂ O as cross-linking agent. <i>Polymer Engineering and Science</i> , 2014 , 54, 1864-1870	2.3	6
62	Self-assembled long-chain organic ion grafted carbon dot ionic nanohybrids with liquid-like behavior and dual luminescence. <i>New Journal of Chemistry</i> , 2013 , 37, 3857	3.6	6

61	Processability, morphology, thermal, and mechanical properties of rigid PVC composites with liquid macromolecular modifier-coated CaCO ₃ . <i>Polymer Composites</i> , 2015 , 36, 1286-1292	3	6
60	Nanosheets-based ZnO/NiO microspheres for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5279-5286	2.1	6
59	Flexible and sensitive piezoresistive electronic skin based on TOCN/PPy hydrogel films. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51367	2.9	6
58	Preparation and dielectric properties of silver@poly(vinyl pyrrolidone)/poly(vinylidene fluoride) composites. <i>Micro and Nano Letters</i> , 2016 , 11, 746-748	0.9	5
57	Hydrophilic Magnetofluorescent Nanobowls: Rapid Magnetic Response and Efficient Photoluminescence. <i>Langmuir</i> , 2016 , 32, 611-8	4	5
56	Polytriphenylamine Derivative and Carbon Nanotubes as Cathode Materials for High-Performance Polymer-Based Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20057-20063	3.8	5
55	Study on morphology of compatibilized poly (vinyl chloride)/ultrafine polyamide-6 blends by styrene/itaic anhydride. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 850-854	2.9	5
54	Achieving high-performance energy harvesting and self-powered sensing in a flexible cellulose nanofibril/MoS ₂ /BaTiO ₃ composite piezoelectric nanogenerator. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 15552-15565	7.1	5
53	Antifreezing ionotronic skin based on flexible, transparent, and tunable ionic conductive nanocellulose hydrogels. <i>Cellulose</i> , 2021 , 28, 5657	5.5	5
52	Understanding Interfacial Mechanics and Mechanisms of Exfoliation and Stabilization of Graphene Using Urea/Glycerol Solvents. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900155	3.5	5
51	Synthesis of the novel binary composite of self-suspended polyaniline (S-PANI) and functionalized multi-walled carbon nanotubes for high-performance supercapacitors. <i>Ionics</i> , 2021 , 27, 1743-1755	2.7	5
50	Carbon nanotube/zirconia composite-coated separator for a high-performance rechargeable lithium-sulfur battery. <i>AIP Advances</i> , 2018 , 8, 105315	1.5	5
49	Gram-scale Y-doped ZnO and PVDF electrospun film for piezoelectric nanogenerators. <i>Composites Science and Technology</i> , 2021 , 215, 109011	8.6	5
48	Fabrication of porous carbon nanofibril/MnO ₂ composite aerogels from TEMPO-oxidized cellulose nanofibrils for high-performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127003	5.1	5
47	A new strategy for the preparation of silver/epoxy/poly(vinylidene fluoride) dielectric composites with a multi-interface structure for suppressed dielectric loss. <i>Polymer Composites</i> , 2018 , 39, E2606-E2610	3	4
46	Dielectric Loss Suppression of Silver/Poly(vinylidene fluoride) Composite Films with Polydopamine. <i>Journal of Macromolecular Science - Physics</i> , 2018 , 57, 255-265	1.4	4
45	Self-suspended polyaniline containing self-dissolved lyotropic liquid crystal with electrical conductivity. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 3578-3582	2.5	4
44	Dual-direction high thermal conductivity polymer composites with outstanding electrical insulation and electromagnetic shielding performance. <i>Polymer Composites</i> , 2020 , 41, 1673-1682	3	4

43	Cellulose/BaTiO nanofiber dielectric films with enhanced energy density by interface modification with poly(dopamine). <i>Carbohydrate Polymers</i> , 2020 , 249, 116883	10.3	4
42	High-temperature resistant polyimide-based sandwich-structured dielectric nanocomposite films with enhanced energy density and efficiency. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51268	2.9	4
41	Optimized structure and electrochemical properties of sulfonated carbon nanotubes/CoNi bimetallic layered hydroxide composites for high-performance supercapacitors. <i>Ceramics International</i> , 2021 , 47, 4648-4658	5.1	4
40	Encapsulation and solubilization of ultrastable quantum dots with multidentate bilayer ligands and rheological behaviour. <i>Nanoscale</i> , 2018 , 10, 20796-20803	7.7	4
39	Flexible dielectric nanocomposite films based on chitin/boron nitride/copper calcium titanate with high energy density. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106554	8.4	4
38	Porous cellulose composite aerogel films with super piezoelectric properties for energy harvesting.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119407	10.3	4
37	Highly Sensitive Multifunctional Electronic Skin Based on Nanocellulose/MXene Composite Films with Good Electromagnetic Shielding Biocompatible Antibacterial Properties. <i>Biomacromolecules</i> , 2021 ,	6.9	4
36	Solvent-free Synthesis of Flowable Carbon Clusters with Customizable Size and Tunable Optical Performance. <i>Chinese Journal of Chemistry</i> , 2013 , 31, 1513-1518	4.9	3
35	N ₂ -filled hollow glass beads as novel gas carriers for microcellular polyethylene. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 4030-4035	2.9	3
34	Solid-state cooling by elastocaloric polymer with uniform chain-lengths.. <i>Nature Communications</i> , 2022 , 13, 9	17.4	3
33	Preparation and characterization of self-suspended tetraaniline with liquid crystal texture. <i>Synthetic Metals</i> , 2016 , 220, 428-432	3.6	3
32	Regenerated Cellulose/NaNbO ₃ Nanowire Dielectric Composite Films with Superior Discharge Energy Density and Efficiency. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8150-8157	6.1	3
31	Preparation and electric property of PA/PVDF blend for energy storage material. <i>Polymer Science - Series A</i> , 2016 , 58, 765-775	1.2	2
30	Detecting impact damage in carbon fabric/epoxy-matrix composites by ultrasonic F-scan and electrical resistance measurement. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010 , 25, 214-217	1	2
29	Flexible and environment-friendly regenerated cellulose/MoS ₂ nanosheet nanogenerators with high piezoelectricity and output performance. <i>Cellulose</i> , 2021 , 28, 6513-6522	5.5	2
28	Scatheless active functionalized poly(p-phenylene terephthalamide) fibres and their outstanding potential in enhancing interface adhesion with polymer matrix. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	2
27	Quasi-2D bromide perovskite nanocrystals with narrow phase distribution prepared using ternary organic cations for sky-blue light-emitting diodes. <i>Applied Physics Letters</i> , 2021 , 118, 083302	3.4	2
26	Thiokol with Excellent Restriction on the Shuttle Effect in LithiumSulfur Batteries. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 79	2.6	2

25	Magnetoelectric effect in flexible nanocomposite films based on size-matching. <i>Nanoscale</i> , 2021 , 13, 4177-4187	7.7	2
24	Nanocomposites: High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture (Adv. Funct. Mater. 20/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
23	Polymer Solar Cells: Light-Soaking-Free Inverted Polymer Solar Cells with an Efficiency of 10.5% by Compositional and Surface Modifications to a Low-Temperature-Processed TiO ₂ Electron-Transport Layer (Adv. Mater. 1/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
22	Self-suspended polypyrrole with liquid crystal property. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	1
21	Water Dispersible Graphene Sheets Produced from Unassembled Graphene/Polyaniline NanoHybrids. <i>Nano</i> , 2015 , 10, 1550003	1.1	1
20	Synthesis and characterization of soluble aromatic azopolyamides containing sulfone and ether units. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2009 , 24, 594-598	1	1
19	Effect of heat treatment on the electrical properties of lead zirconate titanate/poly (vinylidene fluoride) composites. <i>Polymer International</i> , 2010 , 59, n/a-n/a	3.3	1
18	Grafting of Norbornene Diacid Anhydride Onto Fluoroelastomer. <i>Rubber Chemistry and Technology</i> , 2005 , 78, 588-596	1.7	1
17	Electrode materials from cuprous oxide and chitin nanofibrils for supercapacitors with high specific capacity. <i>Ionics</i> , 1	2.7	1
16	Nondestructive CNT chained Fe ₃ O ₄ anode materials for high-performance Li-ion batteries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 635, 128084	5.1	1
15	Incorporation of Fe ₃ O ₄ nanoparticles in three-dimensional carbon nanofiber/carbon nanotube aerogels for high-performance anodes of lithium-ion batteries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 631, 127716	5.1	1
14	Electrochemical performances of graphene/poly-3,4-dioxyethylenethiophene aerogels as supercapacitor electrode materials. <i>Ionics</i> , 2021 , 27, 3615-3626	2.7	1
13	Preparation of highly reflective silver metallized PVC film by autocatalytic deposition. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51190	2.9	1
12	Regenerated cellulose/layered double hydroxide nanocomposite films with improved mechanical property. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51448	2.9	1
11	Synchronously Strengthen and Toughen Polypropylene Using Tartaric Acid-Modified Nano-CaCO ₃ . <i>Nanomaterials</i> , 2021 , 11,	5.4	1
10	Flexible cellulose/alumina (Al ₂ O ₃) nanocomposite films with enhanced energy density and efficiency for dielectric capacitors. <i>Cellulose</i> , 2021 , 28, 1541-1553	5.5	1
9	Photochromic azo polysemicarbazides with biocompatibility behavior. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010 , 25, 979-983	1	0
8	Manganese oxide/nitrogen-doped carbon aerogels from cellulose nanofibrils for high-performance supercapacitor electrodes. <i>Diamond and Related Materials</i> , 2022 , 122, 108813	3.5	0

7	Tunable dielectric properties and electromagnetic wave absorbing performance of MoS ₂ /Fe ₃ O ₄ /PANI composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 637, 128285	5.1	0
6	Organic montmorillonite and doped polyaniline-enhanced self-healing polydimethylsiloxane. <i>Journal of Materials Research</i> , 2021 , 36, 1730-1739	2.5	0
5	Fe ₃ O ₄ nanoparticle/high residual carbon nanofibril aerogels for anode material of lithium-ion battery with enhanced capacity. <i>Ionics</i> , 2021 , 27, 4225-4232	2.7	0
4	Fabrication of carbon nanofibril/carbon nanotube composites with high sulfur loading from nanocellulose for high-performance lithium-sulfur batteries. <i>Diamond and Related Materials</i> , 2022 , 126, 109137	3.5	0
3	Polymeric ion functionalized graphite nanoplatelets with flowability. <i>Materials Research Express</i> , 2018 , 5, 085013	1.7	
2	Nanopolysaccharides in Energy Storage Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019 , 137-169	0.6	
1	A liquid-like poly(6-chloroindole) with monodisperse core-shell structure and efficient luminescence. <i>Ionics</i> , 2021 , 27, 4097-4104	2.7	