

Qi Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

7,629
citations

45
h-index

86
g-index

138
ext. papers

9,515
ext. citations

10.2
avg, IF

6.3
L-index

#	Paper	IF	Citations
120	Solid-state cooling by elastocaloric polymer with uniform chain-lengths.. <i>Nature Communications</i> , 2022 , 13, 9	17.4	3
119	Smart dielectric materials for next-generation electrical insulation 2022 , 1, 19-49		3
118	Gradient structure design of zinc oxide varistor microsphere composites for efficient electric field grading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 106731	8.4	1
117	Polymer Dielectrics for Film Capacitors Applied in HVDC Transmission 2021 , 607-626		
116	Charge cluster triggers unpredictable insulation surface flashover in pressurized SF6. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 015308	3	50
115	Multilayered ferroelectric polymer composites with high energy density at elevated temperature. <i>Composites Science and Technology</i> , 2021 , 202, 108594	8.6	9
114	Self-healing of internal damage in mechanically robust polymers utilizing a reversibly convertible molecular network. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15975-15984	13	6
113	Laser Direct Writing of Flexible Sensor Arrays Based on Carbonized Carboxymethylcellulose and Its Composites for Simultaneous Mechanical and Thermal Stimuli Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10171-10180	9.5	7
112	Polymer dielectrics sandwiched by medium-dielectric-constant nanoscale deposition layers for high-temperature capacitive energy storage. <i>Energy Storage Materials</i> , 2021 , 42, 445-453	19.4	16
111	Dielectric Properties Improvement of Grafting-Modified Polypropylene by Silane for HVDC Cable Insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021 , 28, 2004-2010	2.3	2
110	Wearable Textile-Based Co-Zn Alkaline Microbattery with High Energy Density and Excellent Reliability. <i>Small</i> , 2020 , 16, e2000293	11	26
109	Polymer nanocomposites with high energy density and improved charge/discharge efficiency utilizing hierarchically-structured nanofillers. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6576-6585	13	44
108	Self-healing of electrical damage in thermoset polymers via anionic polymerization. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6025-6033	7.1	9
107	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 10-16	2.3	5
106	Polymer nanocomposites for high-energy-density capacitor dielectrics: Fundamentals and recent progress. <i>IEEE Electrical Insulation Magazine</i> , 2020 , 36, 7-28	2.1	18
105	Interface-modulated nanocomposites based on polypropylene for high-temperature energy storage. <i>Energy Storage Materials</i> , 2020 , 28, 255-263	19.4	65
104	Luminescence reveals micro discharge as a potential triggering factor for surface flashover. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 445103	3	4

103	Origins and effects of deep traps in functional group grafted polymeric dielectric materials. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 475301	3	11
102	Defect-targeted self-healing of multiscale damage in polymers. <i>Nanoscale</i> , 2020 , 12, 3605-3613	7.7	9
101	Autonomous Self-Healing of Electrical Degradation in Dielectric Polymers Using In Situ Electroluminescence. <i>Matter</i> , 2020 , 2, 451-463	12.7	28
100	Self-Healing of Electrical Damage in Polymers. <i>Advanced Science</i> , 2020 , 7, 2002131	13.6	15
99	Mapping the Space Charge at Nanoscale in Dielectric Polymer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53425-53434	9.5	13
98	Polymer/molecular semiconductor all-organic composites for high-temperature dielectric energy storage. <i>Nature Communications</i> , 2020 , 11, 3919	17.4	97
97	Surface-modification effect of MgO nanoparticles on the electrical properties of polypropylene nanocomposite. <i>High Voltage</i> , 2020 , 5, 249-255	4.1	23
96	Space charge behavior in silicone rubber from in-service aged HVDC composite insulators. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 843-850	2.3	1
95	Field-dependent charging phenomenon of HVDC spacers based on dominant charge behaviors. <i>Applied Physics Letters</i> , 2019 , 114, 202904	3.4	107
94	Comparisons of different polypropylene copolymers as potential recyclable HVDC cable insulation materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 674-680	2.3	9
93	Space charge behavior in silicone rubber from in-service aged HVDC composite insulators. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 843-850	2.3	8
92	Ferroelectric Nanocomposites: Direct Detection of Local Electric Polarization in the Interfacial Region in Ferroelectric Polymer Nanocomposites (Adv. Mater. 21/2019). <i>Advanced Materials</i> , 2019 , 31, 1970154	24	
91	Globally reinforced mechanical, electrical, and thermal properties of nonlinear conductivity composites by surface treatment of varistor microspheres. <i>Composites Science and Technology</i> , 2019 , 175, 151-157	8.6	9
90	Direct Detection of Local Electric Polarization in the Interfacial Region in Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2019 , 31, e1807722	24	47
89	Multicomponent Hierarchical Cu-Doped NiCo-LDH/CuO Double Arrays for Ultralong-Life Hybrid Fiber Supercapacitor. <i>Advanced Functional Materials</i> , 2019 , 29, 1809004	15.6	182
88	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 1253-1260	2.3	11
87	High Energy Density Polymer Dielectrics Interlayered by Assembled Boron Nitride Nanosheets. <i>Advanced Energy Materials</i> , 2019 , 9, 1901826	21.8	130
86	Synthesis of Sandwich-Like Nanostructure Fillers and Their Use in Different Types of Thermal Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40694-40703	9.5	16

85	Boron Nitride Nanosheets: High Energy Density Polymer Dielectrics Interlayered by Assembled Boron Nitride Nanosheets (Adv. Energy Mater. 36/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970140	21.8	3
84	Comparisons of different polypropylene copolymers as potential recyclable HVDC cable insulation materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 674-680	2.3	0
83	Temperature dependent electrical properties of thermoplastic polypropylene nanocomposites for HVDC cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 1596-1604	2.3	31
82	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. <i>Nature Nanotechnology</i> , 2019 , 14, 151-155	28.7	104
81	Laser Direct Writing of Ultrahigh Sensitive SiC-Based Strain Sensor Arrays on Elastomer toward Electronic Skins. <i>Advanced Functional Materials</i> , 2019 , 29, 1806786	15.6	102
80	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. <i>Advanced Energy Materials</i> , 2019 , 9, 1803260	21.8	143
79	Micrometer-Sized Porous Fe N/C Bulk for High-Areal-Capacity and Stable Lithium Storage. <i>Small</i> , 2019 , 15, e1803572	11	12
78	High-Temperature Dielectric Materials for Electrical Energy Storage. <i>Annual Review of Materials Research</i> , 2018 , 48, 219-243	12.8	304
77	3.0 V High Energy Density Symmetric Sodium-Ion Battery: NaV(PO) ₄ NaV(PO) ₄ . <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10022-10028	9.5	56
76	Electroluminescence and electrical degradation of insulating polymers at electrode interfaces under divergent fields. <i>Journal of Applied Physics</i> , 2018 , 123, 135106	2.5	3
75	Nonlinear effective permittivity of field grading composite dielectrics. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 075304	3	8
74	How nonlinear V-I characteristics of single ZnO microvaristor influences the performance of its silicone rubber composite. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 623-630	2.3	10
73	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
72	Facile template-free synthesis of uniform carbon-confined V ₂ O ₃ hollow spheres for stable and fast lithium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6220-6224	13	29
71	Polypropylene-based ternary nanocomposites for recyclable high-voltage direct-current cable insulation. <i>Composites Science and Technology</i> , 2018 , 165, 168-174	8.6	31
70	Understanding surface charge accumulation and surface flashover on spacers in compressed gas insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1152-1166	2.3	87
69	Novel HVDC Spacers by Adaptively Controlling Surface Charges [Part I: Charge Transport and Control Strategy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1238-1247	2.3	64
68	Novel HVDC spacers by adaptively controlling surface charges [part ii: experiment. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1248-1258	2.3	44

67	Novel HVDC spacers by adaptively controlling surface charges [part iii: industrialization prospects. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1259-1266	2.3	29
66	Design, synthesis and processing of PVDF-based dielectric polymers. <i>IET Nanodielectrics</i> , 2018 , 1, 80-91	2.8	25
65	Different microscopic features of AC and DC electrical trees in insulating polymer. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 2259-2265	2.3	7
64	Polymer Dielectrics: A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures (Adv. Mater. 49/2018). <i>Advanced Materials</i> , 2018 , 30, 1870378	24	2
63	The Dielectric Properties of PP Nanocomposites Doped with Mesoporous Silica Nanoparticles 2018 ,		1
62	Acid-Interface Engineering of Carbon Nanotube/Elastomers with Enhanced Sensitivity for Stretchable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37760-37766	9.5	60
61	A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures. <i>Advanced Materials</i> , 2018 , 30, e1805672	24	145
60	Recent Advances in Nanowire-Based, Flexible, Freestanding Electrodes for Energy Storage. <i>Chemistry - A European Journal</i> , 2018 , 24, 18307-18321	4.8	26
59	General and precise carbon confinement of functional nanostructures derived from assembled metal-phenolic networks for enhanced lithium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18605-18614	13	9
58	Polyoxomolybdate-derived carbon-encapsulated multicomponent electrocatalysts for synergistically boosting hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17874-17881	13	23
57	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
56	Optimal design of high temperature metalized thin-film polymer capacitors: A combined numerical and experimental method. <i>Journal of Power Sources</i> , 2017 , 357, 149-157	8.9	8
55	Large energy density in Ba doped Pb _{0.97} La _{0.02} (Zr _{0.65} Sn _{0.3} Ti _{0.05})O ₃ antiferroelectric ceramics with improved temperature stability. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 744-748	2.3	13
54	High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture. <i>Advanced Functional Materials</i> , 2017 , 27, 1606292	15.6	232
53	Suppression of elevated temperature space charge accumulation in polypropylene/elastomer blends by deep traps induced by surface-modified ZnO nanoparticles. <i>Composites Science and Technology</i> , 2017 , 153, 103-110	8.6	24
52	Engineering of carbon nanotube/polydimethylsiloxane nanocomposites with enhanced sensitivity for wearable motion sensors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11092-11099	7.1	87
51	Biocompatible and Flexible Hydrogel Diode-Based Mechanical Energy Harvesting. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700118	6.8	17
50	High-Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable High-Temperature Dielectric Materials. <i>Advanced Materials</i> , 2017 , 29, 1701864	24	153

49	Synergistic effect of ZnO microspherical varistors and carbon fibers on nonlinear conductivity and mechanical properties of the silicone rubber-based material. <i>Composites Science and Technology</i> , 2017 , 150, 187-193	8.6	17
48	General Oriented Synthesis of Precise Carbon-Confined Nanostructures by Low-Pressure Vapor Superassembly and Controlled Pyrolysis. <i>Nano Letters</i> , 2017 , 17, 7773-7781	11.5	46
47	Flexible Ionic Diodes for Low-Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017 , 7, 1601983	21.8	33
46	Tuning the potential distribution of AC cable terminals by stress cone of nonlinear conductivity material. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 2686-2693	2.3	16
45	Sandwich-structured polymer nanocomposites with high energy density and great charge-discharge efficiency at elevated temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9995-10000	11.5	227
44	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
43	Toward Wearable Cooling Devices: Highly Flexible Electrocaloric Ba _{0.67} Sr _{0.33} TiO ₃ Nanowire Arrays. <i>Advanced Materials</i> , 2016 , 28, 4811-6	24	80
42	Ferroelectric Polymers and Their Energy-Related Applications. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 1228-1244	2.6	146
41	Self-Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. <i>Advanced Functional Materials</i> , 2016 , 26, 3524-3531	15.6	59
40	Towards multicaloric effect with ferroelectrics. <i>Physical Review B</i> , 2016 , 94,	3.3	27
39	Effect of Mn ₃ O ₄ nanoparticle composition and distribution on graphene as a potential hybrid anode material for lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 33022-33030	3.7	14
38	Polymer Nanocomposites for Power Energy Storage 2016 , 139-163		
37	Controlling Chain Conformations of High-k Fluoropolymer Dielectrics to Enhance Charge Mobilities in Rubrene Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , 2016 , 28, 10095-10102	24	28
36	Relaxor ferroelectric-based electrocaloric polymer nanocomposites with a broad operating temperature range and high cooling energy. <i>Advanced Materials</i> , 2015 , 27, 2236-41	24	115
35	Flexible high-temperature dielectric materials from polymer nanocomposites. <i>Nature</i> , 2015 , 523, 576-9	50.4	1017
34	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. <i>ACS Nano</i> , 2015 , 9, 7164-74	16.7	131
33	A binary solvent system for improved liquid phase exfoliation of pristine graphene materials. <i>Carbon</i> , 2015 , 94, 405-411	10.4	28
32	Understanding of Relaxor Ferroelectric Behavior of Poly(vinylidene fluoride)- <i>trifluoroethylene</i> - <i>chlorotrifluoroethylene</i> Terpolymers. <i>Macromolecules</i> , 2015 , 48, 2731-2739	5.5	72

31	Enhanced pyroelectric properties of porous Ba _{0.67} Sr _{0.33} TiO ₃ ceramics fabricated with carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2015 , 636, 93-96	5.7	34
30	NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015 , 5, 96205-96212	3.7	39
29	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
28	Solvent-free zirconia nanofluids/silica single-layer multifunctional hybrid coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 464, 26-32	5.1	4
27	A Hybrid Material Approach Toward Solution-Processable Dielectrics Exhibiting Enhanced Breakdown Strength and High Energy Density. <i>Advanced Functional Materials</i> , 2015 , 25, 3505-3513	15.6	129
26	Improved Energy Storage Properties Accompanied by Enhanced Interface Polarization in Annealed Microwave-Sintered BST. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3212-3222	3.8	71
25	High-Energy Storage Performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.68} Sn _{0.24} Ti _{0.08})O ₃ Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1175-1181	3.8	137
24	Water Dispersible Graphene Sheets Produced from Unassembled Graphene/Polyaniline Nanohybrids. <i>Nano</i> , 2015 , 10, 1550003	1.1	1
23	Ferroelectric polymer nanocomposites for room-temperature electrocaloric refrigeration. <i>Advanced Materials</i> , 2015 , 27, 1450-4	24	157
22	High energy and power density capacitors from solution-processed ternary ferroelectric polymer nanocomposites. <i>Advanced Materials</i> , 2014 , 26, 6244-9	24	352
21	High energy density and breakdown strength from β and β' phases in poly(vinylidene fluoride-co-bromotrifluoroethylene) copolymers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18981-85	9.5	40
20	Lauric acid/intercalated kaolinite as form-stable phase change material for thermal energy storage. <i>Energy</i> , 2014 , 76, 385-389	7.9	87
19	Highly reflective and adhesive surface of aluminized polyvinyl chloride film by vacuum evaporation. <i>Applied Surface Science</i> , 2014 , 311, 541-548	6.7	4
18	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
17	Y doping and grain size co-effects on the electrical energy storage performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.65} Sn _{0.3} Ti _{0.05})O ₃ anti-ferroelectric ceramics. <i>Ceramics International</i> , 2014 , 40, 5455-5460	5.1	110
16	Fluxible nanoclusters of Fe ₃ O ₄ nanocrystal-embedded polyaniline by macromolecule-induced self-assembly. <i>Langmuir</i> , 2013 , 29, 10223-8	4	26
15	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
14	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

13	Ferroelectric polymer networks with high energy density and improved discharged efficiency for dielectric energy storage. <i>Nature Communications</i> , 2013 , 4, 2845	17.4	289
12	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
11	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
10	Self-unfolded graphene sheets. <i>Chemistry - A European Journal</i> , 2012 , 18, 7055-9	4.8	25
9	The effect of the addition of carbon nanotube fluids to a polymeric matrix to produce simultaneous reinforcement and plasticization. <i>Carbon</i> , 2012 , 50, 2056-2060	10.4	21
8	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
7	A carbon black derivative with liquid behavior. <i>Carbon</i> , 2011 , 49, 1047-1051	10.4	23
6	Property-structure relationship of nanoscale ionic materials based on multiwalled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 5797-806	16.7	78
5	Fluxible Monodisperse Quantum Dots with Efficient Luminescence. <i>Angewandte Chemie</i> , 2010 , 122, 10139-10142	16.4	52
4	Fluxible monodisperse quantum dots with efficient luminescence. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9943-6	16.4	52
3	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
2	Thickness dependence of the properties of epitaxial MgB ₂ thin films grown by hybrid physical-chemical vapor deposition. <i>Applied Physics Letters</i> , 2003 , 82, 4319-4321	3.4	92
1	Metal-Support Interactions within a Dual-Site Pd/YMn ₂ O ₅ Catalyst during CH ₄ Combustion. <i>ACS Catalysis</i> , 2013 , 3, 4430-4439	13.1	2