

# Qi Li

## List of Publications by Year in descending order

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73  
papers

7,532  
citations

94433

37  
h-index

82547

72  
g-index

73  
all docs

73  
docs citations

73  
times ranked

4827  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-state cooling by elastocaloric polymer with uniform chain-lengths. <i>Nature Communications</i> , 2022, 13, 9.	12.8	33
2	Ultrahigh-energy-density dielectric materials from ferroelectric polymer/glucose all-organic composites with a cross-linking network of hydrogen bonds. <i>Energy Storage Materials</i> , 2022, 49, 339-347.	18.0	46
3	A Dielectric Polymer/Metal Oxide Nanowire Composite for Self-Adaptive Charge Release. <i>Nano Letters</i> , 2022, 22, 5167-5174.	9.1	9
4	Insight into the Experimental Error in the Mapping of Electrical Properties with Electrostatic Force Microscopy. <i>Langmuir</i> , 2022, 38, 8534-8544.	3.5	8
5	Multilayered ferroelectric polymer composites with high energy density at elevated temperature. <i>Composites Science and Technology</i> , 2021, 202, 108594.	7.8	28
6	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.	10.3	34
7	Polymer Nanocomposites with High Energy Density Utilizing Oriented Nanosheets and High-Dielectric-Constant Nanoparticles. <i>Materials</i> , 2021, 14, 4780.	2.9	9
8	Nanoscale mapping of electric polarizability in a heterogeneous dielectric material with surface irregularities. <i>Nanotechnology</i> , 2021, 32, 505711.	2.6	3
9	Defect-targeted self-healing of multiscale damage in polymers. <i>Nanoscale</i> , 2020, 12, 3605-3613.	5.6	16
10	Self-Healing of Electrical Damage in Polymers. <i>Advanced Science</i> , 2020, 7, 2002131.	11.2	46
11	Mapping the Space Charge at Nanoscale in Dielectric Polymer Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53425-53434.	8.0	32
12	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.	10.3	74
13	Self-healing of electrical damage in thermoset polymers via anionic polymerization. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6025-6033.	5.5	31
14	Interface-modulated nanocomposites based on polypropylene for high-temperature energy storage. <i>Energy Storage Materials</i> , 2020, 28, 255-263.	18.0	159
15	Origins and effects of deep traps in functional group grafted polymeric dielectric materials. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 475301.	2.8	42
16	Direct Detection of Local Electric Polarization in the Interfacial Region in Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2019, 31, e1807722.	21.0	81
17	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. <i>Nature Nanotechnology</i> , 2019, 14, 151-155.	31.5	169
18	High-Temperature Dielectric Materials for Electrical Energy Storage. <i>Annual Review of Materials Research</i> , 2018, 48, 219-243.	9.3	540

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19	Electroluminescence and electrical degradation of insulating polymers at electrode interfaces under divergent fields. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	8
20	Scalable production of few-layer molybdenum disulfide nanosheets by supercritical carbon dioxide. <i>Journal of Materials Science</i> , 2018, 53, 7258-7265.	3.7	15
21	Nonlinear effective permittivity of field grading composite dielectrics. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 075304.	2.8	16
22	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.	2.9	17
23	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.	7.6	64
24	Polypropylene-based ternary nanocomposites for recyclable high-voltage direct-current cable insulation. <i>Composites Science and Technology</i> , 2018, 165, 168-174.	7.8	48
25	Poly(methyl methacrylate)/boron nitride nanocomposites with enhanced energy density as high temperature dielectrics. <i>Composites Science and Technology</i> , 2017, 142, 139-144.	7.8	153
26	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.	7.8	16
27	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.	2.9	17
28	High Energy Density Dielectric Polymer Nanocomposites with Trilayered Architecture. <i>Advanced Functional Materials</i> , 2017, 27, 1606292.	14.9	338
29	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.	7.8	42
30	Biocompatible and Flexible Hydrogel Diode-Based Mechanical Energy Harvesting. <i>Advanced Materials Technologies</i> , 2017, 2, 1700118.	5.8	29
31	High Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable High Temperature Dielectric Materials. <i>Advanced Materials</i> , 2017, 29, 1701864.	21.0	270
32	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.	7.8	27
33	Flexible Ionic Diodes for Low Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017, 7, 1601983.	19.5	51
34	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.	2.9	28
35	Self-Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. <i>Advanced Functional Materials</i> , 2016, 26, 3524-3531.	14.9	69
36	Towards multicaloric effect with ferroelectrics. <i>Physical Review B</i> , 2016, 94, .	3.2	33

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37	Effect of Mn <sub>3</sub> O <sub>4</sub> nanoparticle composition and distribution on graphene as a potential hybrid anode material for lithium-ion batteries. RSC Advances, 2016, 6, 33022-33030.	3.6	19
38	Polymer Nanocomposites for Power Energy Storage. , 2016, , 139-163.		0
39	Controlling Chain Conformations of High-Fluoropolymer Dielectrics to Enhance Charge Mobilities in Rubrene Single-Crystal Field-Effect Transistors. Advanced Materials, 2016, 28, 10095-10102.	21.0	38
40	Sandwich-structured polymer nanocomposites with high energy density and great charge-discharge efficiency at elevated temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9995-10000.	7.1	317
41	Self-suspended polyaniline containing self-dissolved lyotropic liquid crystal with electrical conductivity. Journal of Polymer Science Part A, 2016, 54, 3578-3582.	2.3	4
42	Toward Wearable Cooling Devices: Highly Flexible Electrocaloric Ba <sub>0.67</sub> Sr <sub>0.33</sub> TiO <sub>3</sub> Nanowire Arrays. Advanced Materials, 2016, 28, 4811-4816.	21.0	101
43	Ferroelectric Polymers and Their Energy-Related Applications. Macromolecular Chemistry and Physics, 2016, 217, 1228-1244.	2.2	193
44	A Hybrid Material Approach Toward Solution-Processable Dielectrics Exhibiting Enhanced Breakdown Strength and High Energy Density. Advanced Functional Materials, 2015, 25, 3505-3513.	14.9	152
45	Improved Energy Storage Properties Accompanied by Enhanced Interface Polarization in Annealed Microwave-Sintered BST. Journal of the American Ceramic Society, 2015, 98, 3212-3222.	3.8	90
46	High-Energy Storage Performance of (Pb <sub>0.87</sub> Ba <sub>0.1</sub> La <sub>0.02</sub> )(Zr <sub>0.68</sub> Sn <sub>0.24</sub> Ti <sub>0.08</sub> )O <sub>3</sub> Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. Journal of the American Ceramic Society, 2015, 98, 1175-1181.	3.8	168
47	Ferroelectric Polymer Nanocomposites for Room-Temperature Electrocaloric Refrigeration. Advanced Materials, 2015, 27, 1450-1454.	21.0	192
48	Relaxor Ferroelectric-Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy. Advanced Materials, 2015, 27, 2236-2241.	21.0	143
49	Flexible high-temperature dielectric materials from polymer nanocomposites. Nature, 2015, 523, 576-579.	27.8	1,476
50	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. ACS Nano, 2015, 9, 7164-7174.	14.6	164
51	A binary solvent system for improved liquid phase exfoliation of pristine graphene materials. Carbon, 2015, 94, 405-411.	10.3	31
52	Understanding of Relaxor Ferroelectric Behavior of Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (fluoride-trifluoroeth 2731-2739.	4.8	93
53	Enhanced pyroelectric properties of porous Ba <sub>0.67</sub> Sr <sub>0.33</sub> TiO <sub>3</sub> ceramics fabricated with carbon nanotubes. Journal of Alloys and Compounds, 2015, 636, 93-96.	5.5	41
54	NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. RSC Advances, 2015, 5, 96205-96212.	3.6	47

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55	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.	30.8	541
56	Facile preparation and thermal performances of hexadecanol/crosslinked polystyrene core/shell nanocapsules as phase change material. <i>Polymer Composites</i> , 2014, 35, 2154-2158.	4.6	28
57	Y doping and grain size co-effects on the electrical energy storage performance of (Pb <sub>0.87</sub> Ba <sub>0.11</sub> La <sub>0.02</sub> )(Zr <sub>0.65</sub> Sn <sub>0.3</sub> Ti <sub>0.05</sub> )O <sub>3</sub> anti-ferroelectric ceramics. <i>Ceramics International</i> , 2014, 40, 5455-5460.	4.8	129
58	High Energy Density and Breakdown Strength from $\hat{I}^2$ and $\hat{I}^3$ Phases in Poly(vinylidene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (fluorinated) Polyimide) Nanocomposites. <i>Journal of Applied Physics</i> , 2014, 115, 184101. doi:10.1063/1.2361888.	8.0	47
59	Highly reflective and adhesive surface of aluminized polyvinyl chloride film by vacuum evaporation. <i>Applied Surface Science</i> , 2014, 311, 541-548.	6.1	7
60	Fluxible Nanoclusters of Fe <sub>3</sub> O <sub>4</sub> Nanocrystal-Embedded Polyaniline by Macromolecule-Induced Self-Assembly. <i>Langmuir</i> , 2013, 29, 10223-10228.	3.5	28
61	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.	5.5	78
62	Aqueous preparation of polyethylene glycol/sulfonated graphene phase change composite with enhanced thermal performance. <i>Energy Conversion and Management</i> , 2013, 75, 482-487.	9.2	65
63	Ferroelectric polymer networks with high energy density and improved discharged efficiency for dielectric energy storage. <i>Nature Communications</i> , 2013, 4, 2845.	12.8	382
64	Self-assembled long-chain organic ion grafted carbon dot ionic nano hybrids with liquid-like behavior and dual luminescence. <i>New Journal of Chemistry</i> , 2013, 37, 3857.	2.8	7
65	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
66	Self-Unfolded Graphene Sheets. <i>Chemistry - A European Journal</i> , 2012, 18, 7055-7059.	3.3	29
67	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.	10.3	26
68	Self-assembled quantum dots-polyhedral oligomeric silsesquioxane nano hybrids with enhanced photoluminescence. <i>Scripta Materialia</i> , 2012, 66, 646-649.	5.2	11
69	Self-Suspended Polyaniline Doped with a Protonic Acid Containing a Polyethylene Glycol Segment. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2920-2924.	3.3	15
70	A carbon black derivative with liquid behavior. <i>Carbon</i> , 2011, 49, 1047-1051.	10.3	27
71	Fluxible Monodisperse Quantum Dots with Efficient Luminescence. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9943-9946.	13.8	60
72	Property-Structure Relationship of Nanoscale Ionic Materials Based on Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 5797-5806.	14.6	86

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73	Solvent-free Fluids Based on Rhombohedral Nanoparticles of Calcium Carbonate. Journal of the American Chemical Society, 2009, 131, 9148-9149.	13.7	93