

Qi Li

List of Publications by Year in descending order

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73
papers

7,532
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94433

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82547

72
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all docs

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docs citations

73
times ranked

4827
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Flexible high-temperature dielectric materials from polymer nanocomposites. <i>Nature</i> , 2015, 523, 576-579. | 27.8 | 1,476 |
| 2 | 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 |
| 3 | High-Temperature Dielectric Materials for Electrical Energy Storage. <i>Annual Review of Materials Research</i> , 2018, 48, 219-243. | 9.3 | 540 |
| 4 | 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 |
| 5 | High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture. <i>Advanced Functional Materials</i> , 2017, 27, 1606292. | 14.9 | 338 |
| 6 | 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. | 7.1 | 317 |
| 7 | 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 |
| 8 | Ferroelectric Polymers and Their Energy-Related Applications. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1228-1244. | 2.2 | 193 |
| 9 | Ferroelectric Polymer Nanocomposites for Room-Temperature Electrocaloric Refrigeration. <i>Advanced Materials</i> , 2015, 27, 1450-1454. | 21.0 | 192 |
| 10 | Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. <i>Nature Nanotechnology</i> , 2019, 14, 151-155. | 31.5 | 169 |
| 11 | High-Energy Storage Performance of $(\text{Pb}_{0.87}\text{Ba}_{0.1}\text{La}_{0.02})(\text{Zr}_{0.68}\text{Sn}_{0.24}\text{Ti}_{0.08})\text{O}_{3-x}$ Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1175-1181. | 3.8 | 168 |
| 12 | Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. <i>ACS Nano</i> , 2015, 9, 7164-7174. | 14.6 | 164 |
| 13 | Interface-modulated nanocomposites based on polypropylene for high-temperature energy storage. <i>Energy Storage Materials</i> , 2020, 28, 255-263. | 18.0 | 159 |
| 14 | 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 |
| 15 | 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. | 14.9 | 152 |
| 16 | Relaxor Ferroelectric-Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy. <i>Advanced Materials</i> , 2015, 27, 2236-2241. | 21.0 | 143 |
| 17 | Y doping and grain size co-effects on the electrical energy storage performance of $(\text{Pb}_{0.87}\text{Ba}_{0.1}\text{La}_{0.02})(\text{Zr}_{0.65}\text{Sn}_{0.3}\text{Ti}_{0.05})\text{O}_3$ anti-ferroelectric ceramics. <i>Ceramics International</i> , 2014, 40, 5455-5460. | 4.8 | 129 |
| 18 | Toward Wearable Cooling Devices: Highly Flexible Electrocaloric $\text{Ba}_{0.67}\text{Sr}_{0.33}\text{TiO}_3$ Nanowire Arrays. <i>Advanced Materials</i> , 2016, 28, 4811-4816. | 21.0 | 101 |

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|----|---|------|-----------|
| 19 | Solvent-free Fluids Based on Rhombohedral Nanoparticles of Calcium Carbonate. <i>Journal of the American Chemical Society</i> , 2009, 131, 9148-9149. | 13.7 | 93 |
| 20 | Understanding of Relaxor Ferroelectric Behavior of Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (fluorideâ€“trifluoroeth 2731-2739. | 4.8 | 93 |
| 21 | Improved Energy Storage Properties Accompanied by Enhanced Interface Polarization in Annealed Microwaveâ€“Sintered BST. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3212-3222. | 3.8 | 90 |
| 22 | Propertyâ€“Structure Relationship of Nanoscale Ionic Materials Based on Multiwalled Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 5797-5806. | 14.6 | 86 |
| 23 | Direct Detection of Local Electric Polarization in the Interfacial Region in Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2019, 31, e1807722. | 21.0 | 81 |
| 24 | Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymerâ€“graphene percolative composites. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7034. | 5.5 | 78 |
| 25 | Polymer nanocomposites with high energy density and improved chargeâ€“discharge efficiency utilizing hierarchically-structured nanofillers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6576-6585. | 10.3 | 74 |
| 26 | Selfâ€“Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. <i>Advanced Functional Materials</i> , 2016, 26, 3524-3531. | 14.9 | 69 |
| 27 | 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 |
| 28 | 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 |
| 29 | Flexibile Monodisperse Quantum Dots with Efficient Luminescence. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9943-9946. | 13.8 | 60 |
| 30 | Flexible Ionic Diodes for Lowâ€“Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017, 7, 1601983. | 19.5 | 51 |
| 31 | 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 |
| 32 | High Energy Density and Breakdown Strength from $\hat{1}^2$ and $\hat{1}^3$ Phases in Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (flu 6, 18981-18988. | 8.0 | 47 |
| 33 | NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 96205-96212. | 3.6 | 47 |
| 34 | Selfâ€“Healing of Electrical Damage in Polymers. <i>Advanced Science</i> , 2020, 7, 2002131. | 11.2 | 46 |
| 35 | 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 |
| 36 | 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 |

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|----|--|------|-----------|
| 37 | Origins and effects of deep traps in functional group grafted polymeric dielectric materials. Journal Physics D: Applied Physics, 2020, 53, 475301. | 2.8 | 42 |
| 38 | Enhanced pyroelectric properties of porous Ba _{0.67} Sr _{0.33} TiO ₃ ceramics fabricated with carbon nanotubes. Journal of Alloys and Compounds, 2015, 636, 93-96. | 5.5 | 41 |
| 39 | Controlling Chain Conformations of High- <i>k</i> Fluoropolymer Dielectrics to Enhance Charge Mobilities in Rubrene Single-Crystal Field-Effect Transistors. Advanced Materials, 2016, 28, 10095-10102. | 21.0 | 38 |
| 40 | Self-healing of internal damage in mechanically robust polymers utilizing a reversibly convertible molecular network. Journal of Materials Chemistry A, 2021, 9, 15975-15984. | 10.3 | 34 |
| 41 | Towards multicaloric effect with ferroelectrics. Physical Review B, 2016, 94, . | 3.2 | 33 |
| 42 | Solid-state cooling by elastocaloric polymer with uniform chain-lengths. Nature Communications, 2022, 13, 9. | 12.8 | 33 |
| 43 | Mapping the Space Charge at Nanoscale in Dielectric Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2020, 12, 53425-53434. | 8.0 | 32 |
| 44 | A binary solvent system for improved liquid phase exfoliation of pristine graphene materials. Carbon, 2015, 94, 405-411. | 10.3 | 31 |
| 45 | Self-healing of electrical damage in thermoset polymers via anionic polymerization. Journal of Materials Chemistry C, 2020, 8, 6025-6033. | 5.5 | 31 |
| 46 | Self-Unfolded Graphene Sheets. Chemistry - A European Journal, 2012, 18, 7055-7059. | 3.3 | 29 |
| 47 | Biocompatible and Flexible Hydrogel Diode-Based Mechanical Energy Harvesting. Advanced Materials Technologies, 2017, 2, 1700118. | 5.8 | 29 |
| 48 | Fluxible Nanoclusters of Fe ₃ O ₄ Nanocrystal-Embedded Polyaniline by Macromolecule-Induced Self-Assembly. Langmuir, 2013, 29, 10223-10228. | 3.5 | 28 |
| 49 | Facile preparation and thermal performances of hexadecanol/crosslinked polystyrene core/shell nanocapsules as phase change material. Polymer Composites, 2014, 35, 2154-2158. | 4.6 | 28 |
| 50 | Tuning the potential distribution of AC cable terminals by stress cone of nonlinear conductivity material. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2686-2693. | 2.9 | 28 |
| 51 | Multilayered ferroelectric polymer composites with high energy density at elevated temperature. Composites Science and Technology, 2021, 202, 108594. | 7.8 | 28 |
| 52 | A carbon black derivative with liquid behavior. Carbon, 2011, 49, 1047-1051. | 10.3 | 27 |
| 53 | Synergistic effect of ZnO microspherical varistors and carbon fibers on nonlinear conductivity and mechanical properties of the silicone rubber-based material. Composites Science and Technology, 2017, 150, 187-193. | 7.8 | 27 |
| 54 | The effect of the addition of carbon nanotube fluids to a polymeric matrix to produce simultaneous reinforcement and plasticization. Carbon, 2012, 50, 2056-2060. | 10.3 | 26 |

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|----|--|-----|-----------|
| 55 | Effect of Mn ₃ O ₄ 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 |
| 56 | 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. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 744-748. | 2.9 | 17 |
| 57 | How nonlinear V-I characteristics of single ZnO microvaristor influences the performance of its silicone rubber composite. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 623-630. | 2.9 | 17 |
| 58 | Optimal design of high temperature metalized thin-film polymer capacitors: A combined numerical and experimental method. Journal of Power Sources, 2017, 357, 149-157. | 7.8 | 16 |
| 59 | Nonlinear effective permittivity of field grading composite dielectrics. Journal Physics D: Applied Physics, 2018, 51, 075304. | 2.8 | 16 |
| 60 | Defect-targeted self-healing of multiscale damage in polymers. Nanoscale, 2020, 12, 3605-3613. | 5.6 | 16 |
| 61 | Self-Suspended Polyaniline Doped with a Protonic Acid Containing a Polyethylene Glycol Segment. Chemistry - an Asian Journal, 2011, 6, 2920-2924. | 3.3 | 15 |
| 62 | Scalable production of few-layer molybdenum disulfide nanosheets by supercritical carbon dioxide. Journal of Materials Science, 2018, 53, 7258-7265. | 3.7 | 15 |
| 63 | Self-assembled quantum dots-polyhedral oligomeric silsesquioxane nanohybrids with enhanced photoluminescence. Scripta Materialia, 2012, 66, 646-649. | 5.2 | 11 |
| 64 | Polymer Nanocomposites with High Energy Density Utilizing Oriented Nanosheets and High-Dielectric-Constant Nanoparticles. Materials, 2021, 14, 4780. | 2.9 | 9 |
| 65 | A Dielectric Polymer/Metal Oxide Nanowire Composite for Self-Adaptive Charge Release. Nano Letters, 2022, 22, 5167-5174. | 9.1 | 9 |
| 66 | Electroluminescence and electrical degradation of insulating polymers at electrode interfaces under divergent fields. Journal of Applied Physics, 2018, 123, . | 2.5 | 8 |
| 67 | Insight into the Experimental Error in the Mapping of Electrical Properties with Electrostatic Force Microscopy. Langmuir, 2022, 38, 8534-8544. | 3.5 | 8 |
| 68 | Self-assembled long-chain organic ion grafted carbon dot ionic nanohybrids with liquid-like behavior and dual luminescence. New Journal of Chemistry, 2013, 37, 3857. | 2.8 | 7 |
| 69 | Highly reflective and adhesive surface of aluminized polyvinyl chloride film by vacuum evaporation. Applied Surface Science, 2014, 311, 541-548. | 6.1 | 7 |
| 70 | 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 |
| 71 | Solvent-free Synthesis of Flowable Carbon Clusters with Customizable Size and Tunable Optical Performance. Chinese Journal of Chemistry, 2013, 31, 1513-1518. | 4.9 | 3 |
| 72 | Nanoscale mapping of electric polarizability in a heterogeneous dielectric material with surface irregularities. Nanotechnology, 2021, 32, 505711. | 2.6 | 3 |

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|----|---|----|-----------|
| 73 | Polymer Nanocomposites for Power Energy Storage. , 2016, , 139-163. | | 0 |