

Sheng-Guo Lu

List of Publications by Citations

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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.

63

papers

2,729

citations

22

h-index

52

g-index

69

ext. papers

3,270

ext. citations

6.8

avg, IF

5.35

L-index

#	Paper	IF	Citations
63	Large electrocaloric effect in ferroelectric polymers near room temperature. <i>Science</i> , 2008 , 321, 821-3	33.3	813
62	Pyroelectric and electrocaloric materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 23-37	7.1	177
61	Anode Improvement in Rechargeable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700542	24	154
60	Electrocaloric Cooling Materials and Devices for Zero-Global-Warming-Potential, High-Efficiency Refrigeration. <i>Joule</i> , 2019 , 3, 1200-1225	27.8	122
59	Nanoflake Arrays of Lithiophilic Metal Oxides for the Ultra-Stable Anodes of Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1803023	15.6	102
58	Large Electrocaloric Effect in Relaxor Ferroelectric and Antiferroelectric Lanthanum Doped Lead Zirconate Titanate Ceramics. <i>Scientific Reports</i> , 2017 , 7, 45335	4.9	86
57	High-performance lithium ion batteries using SiO ₂ -coated LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ microspheres as cathodes. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 708-716	5.7	67
56	Oxygen-vacancy-related relaxation and conduction behavior in (Pb _{1-x} Ba _x)(Zr _{0.95} Ti _{0.05})O ₃ ceramics. <i>AIP Advances</i> , 2014 , 4, 107141	1.5	63
55	Direct Measurement of Large Electrocaloric Effect in Ba(ZrTi)O Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4801-4807	9.5	62
54	Enhancement of dielectric energy density in the poly(vinylidene fluoride)-based terpolymer/copolymer blends. <i>Applied Physics Letters</i> , 2008 , 93, 152903	3.4	58
53	High energy-storage density of lead-free BiFeO ₃ doped Na _{0.5} Bi _{0.5} TiO ₃ -BaTiO ₃ thin film capacitor with good temperature stability. <i>Journal of Alloys and Compounds</i> , 2018 , 757, 169-176	5.7	52
52	A Review of Advanced Flexible Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2018 , 3, 17003756.8	56.8	50
51	Enhanced electrochemical performance of ZrO ₂ modified LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode material for lithium ion batteries. <i>Ceramics International</i> , 2017 , 43, 15173-15178	5.1	50
50	Multifunctionality of lead-free BiFeO ₃ -based ergodic relaxor ferroelectric ceramics: High energy storage performance and electrocaloric effect. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 185-192	5.7	44
49	Multiferroic Polymer Composites with Greatly Enhanced Magnetolectric Effect under a Low Magnetic Bias. <i>Advanced Materials</i> , 2011 , 23, n/a-n/a	24	34
48	Large Electrocaloric Effect in a Dielectric Liquid Possessing a Large Dielectric Anisotropy Near the Isotropic-Nematic Transition. <i>Advanced Functional Materials</i> , 2013 , 23, 2894-2898	15.6	30
47	Enhanced electrocaloric analysis and energy-storage performance of lanthanum modified lead titanate ceramics for potential solid-state refrigeration applications. <i>Scientific Reports</i> , 2018 , 8, 396	4.9	28

46	High thermal conductivity and low electrical conductivity tailored in carbon nanotube (carbon black)/polypropylene (alumina) composites. <i>Composites Science and Technology</i> , 2016 , 133, 111-118	8.6	26
45	Enhancement of the electrocaloric effect over a wide temperature range in PLZT ceramics by doping with Gd ³⁺ and Sn ⁴⁺ ions. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1093-1102	6	24
44	LARGE ELECTROCALORIC EFFECT IN RELAXOR FERROELECTRICS. <i>Journal of Advanced Dielectrics</i> , 2012 , 02, 1230011	1.3	23
43	Enhanced Electrocaloric Effect in Sr-Modified Lead-Free BaZr TiO Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20167-20173	9.5	22
42	An Ultra-Long-Life Flexible Lithium-Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. <i>ACS Nano</i> , 2021 , 15, 1358-1369	16.7	19
41	Enhancement of the Oil Absorption Capacity of Poly(Lactic Acid) Nano Porous Fibrous Membranes Derived via a Facile Electrospinning Method. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1014	2.6	18
40	Enhanced piezoelectric properties and electrocaloric effect in novel lead-free (Bi _{0.5} K _{0.5})TiO ₃ -La(Mg _{0.5} Ti _{0.5})O ₃ ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5503-5513	3.8	16
39	Giant negative electrocaloric effect in B-site non-stoichiometric (Pb _{0.97} La _{0.02})(Zr _{0.95} Ti _{0.05}) _{1+y} O ₃ anti-ferroelectric ceramics. <i>Materials Research Letters</i> , 2018 , 6, 384-389	7.4	14
38	Large electrocaloric effect in BaTiO ₃ based multilayer ceramic capacitors. <i>Science China Technological Sciences</i> , 2016 , 59, 1054-1058	3.5	14
37	Metallic coloration on polyester fabric with sputtered copper and copper oxides films. <i>Vacuum</i> , 2020 , 178, 109489	3.7	12
36	Large electrocaloric effect in lead-free Ba(Zr _x Ti _{1-x})O ₃ thick film ceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 165-171	5.7	12
35	Composition dependence of giant electrocaloric effect in Pb Sr _{1-x} TiO ₃ ceramics for energy-related applications. <i>Journal of Materiomics</i> , 2019 , 5, 118-126	6.7	12
34	Dielectric, Ferroelectric, and Magnetic Properties of Sm-Doped BiFeO ₃ Ceramics Prepared by a Modified Solid-State-Reaction Method. <i>Materials</i> , 2018 , 11,	3.5	12
33	A Self-Healing Amalgam Interface in Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004798	24	11
32	Asymmetric diffusion of Zr, Sc and Ce, Gd at the interface between zirconia electrolyte and ceria interlayer for solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2016 , 679, 191-195	5.7	11
31	Enhanced Electrocaloric Effect in 0.73Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.27PbTiO ₃ Single Crystals via Direct Measurement. <i>Crystals</i> , 2020 , 10, 451	2.3	10
30	Direct and indirect measurement of large electrocaloric effect in barium strontium titanate ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 1354-1361	2	10
29	Investigations on the properties of Li _{3x} La _{2/3-x} TiO ₃ based all-solid-state supercapacitor: Relationships between the capacitance, ionic conductivity, and temperature. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2396-2403	6	9

28	Influence of electric field on the phenomenological coefficient and electrocaloric strength in ferroelectrics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 127701	0.6	9
27	Enhanced electrocaloric effect at room temperature in Mn ²⁺ doped lead-free (BaSr)TiO ₃ ceramics via a direct measurement. <i>Journal of Advanced Ceramics</i> , 2021 , 10, 482-492	10.7	9
26	Direct and indirect measurement of large electrocaloric effect in B ₂ O ₃ -ZnO glass modified Ba _{0.65} Sr _{0.35} TiO ₃ bulk ceramics. <i>Scripta Materialia</i> , 2021 , 193, 59-63	5.6	9
25	Superior energy storage density and giant negative electrocaloric effects in (Pb _{0.98} La _{0.02})(Zr, Sn)O ₃ antiferroelectric ceramics. <i>Scripta Materialia</i> , 2021 , 200, 113920	5.6	9
24	Large electrocaloric effect in tetragonal perovskite 0.03Bi(Mg _{1/2} Ti _{1/2})O ₃ ·0.97(0.875Bi _{1/2} Na _{1/2} TiO ₃ ·0.125BaTiO ₃) lead-free ferroelectric ceramics. <i>Scripta Materialia</i> , 2019 , 162, 256-260	5.6	7
23	Enhanced electrocaloric strengths at room temperature in (Sr _x Ba _{1-x})(Sn _{0.05} Ti _{0.95})O ₃ lead-free ceramics. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159519	5.7	7
22	Preparation and electrochemical properties of Li _{0.33} Sr _x La _{0.56} /3xTiO ₃ -based solid-state ionic supercapacitor. <i>Ceramics International</i> , 2019 , 45, 2584-2590	5.1	6
21	Structural coloration and its application to textiles: a review. <i>Journal of the Textile Institute</i> , 2020 , 111, 756-764	1.5	6
20	Dimensional analysis of Ni-NiO grains at anode/electrolyte interface for SOFC during redox reaction. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 543-549	2	5
19	Large electrocaloric effect obtained in Ba(Sn _x Ti _{1-x})O ₃ lead-free ceramics using direct and indirect measurements. <i>Journal of Advanced Dielectrics</i> , 2018 , 08, 1850038	1.3	5
18	The Effects of Aluminum-Nitride Nano-Fillers on the Mechanical, Electrical, and Thermal Properties of High Temperature Vulcanized Silicon Rubber for High-Voltage Outdoor Insulator Applications. <i>Materials</i> , 2019 , 12,	3.5	4
17	Experimental and theoretical studies of a thermal switch based on shape-memory alloy clad with graphene paper. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 42, 898-908	1.6	4
16	Electrical and thermal properties of surface passivated carbon nanotube/polyvinylidene fluoride composites. <i>IET Nanodielectrics</i> , 2018 , 1, 122-126	2.8	4
15	Effects of organic additives on the microstructural, rheological and electrical properties of silver paste for LTCC applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14368	2.1	3
14	Direct measurement of enhanced electrocaloric effect in Mn ²⁺ doped lead-free Ba(ZrTi)O ₃ ceramics. <i>Scripta Materialia</i> , 2020 , 176, 67-72	5.6	3
13	Enhancement of solvent uptake in porous PVDF nanofibers derived by a water-mediated electrospinning technique. <i>Journal of Materiomics</i> , 2021 , 7, 244-253	6.7	3
12	Preparation and Characterization of FC Films Coated on PET Substrates by RF Magnetron Sputtering. <i>MATEC Web of Conferences</i> , 2018 , 142, 03008	0.3	3
11	Antibacterial and ultraviolet protective neodymium-doped TiO ₂ film coated on polypropylene nonwoven fabric via a sputtering method. <i>Journal of Engineered Fibers and Fabrics</i> , 2021 , 16, 155892502110252 ³	0.0	3

10	Pore orientation of the gadolinia-doped ceria cathode interlayer for a tubular SOFC using dip-coating. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 185-190	2	2
9	Metallic coloration with Cu/CuO coating on polypropylene nonwoven fabric via a physical vapor deposition method and its multifunctional properties. <i>Journal of the Textile Institute</i> , 1-10	1.5	2
8	Electrospinning-Derived PLA/Shellac/PLA Sandwich Structural Membrane Sensor for Detection of Alcoholic Vapors with a Low Molecular Weight. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5419	2.6	2
7	Metallic coloration and multifunctional preparation on fabrics via nitriding reactive sputtering with copper and titanium targets. <i>Vacuum</i> , 2022 , 111177	3.7	2
6	Recent Advances in the Applications of Ferroelectric Polymers. <i>Recent Patents on Materials Science</i> , 2010 , 3, 40-56	0.3	1
5	Large energy-storage density and positive electrocaloric effect in $x\text{BiFeO}_3(1-x)\text{BaTiO}_3$ relaxor ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1302-1312	7.1	1
4	Multifunctionality in (K,Na)NbO ₃ -based ceramic near polymorphic phase boundary. <i>Journal of Applied Physics</i> , 2021 , 130, 064102	2.5	1
3	Novel barium zirconate titanate-based lead-free ceramics with stably high energy storage performance over a broad temperature and frequency range. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 11845-11856	2.1	0
2	Large energy storage density and electrocaloric strength of $\text{Pb}_{0.97}\text{La}_{0.02}(\text{Zr}_{0.46-x}\text{Sn}_{0.54}\text{Ti}_x)\text{O}_3$ antiferroelectric thick film ceramics. <i>Scripta Materialia</i> , 2022 , 210, 114426	5.6	
1	High performance electrostatically driven thermal switch incorporated with a mini-channel cooling. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-16	1.6	