

Sheng-Guo Lu

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.

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 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
62	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	
61	Metallic coloration and multifunctional preparation on fabrics via nitriding reactive sputtering with copper and titanium targets. <i>Vacuum</i> , 2022 , 111177	3.7	2
60	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
59	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
58	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
57	Enhanced electrocaloric effect at room temperature in Mn^{2+} doped lead-free $(\text{BaSr})\text{TiO}_3$ ceramics via a direct measurement. <i>Journal of Advanced Ceramics</i> , 2021 , 10, 482-492	10.7	9
56	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
55	Direct and indirect measurement of large electrocaloric effect in B_2O_3 -ZnO glass modified $\text{Ba}_{0.65}\text{Sr}_{0.35}\text{TiO}_3$ bulk ceramics. <i>Scripta Materialia</i> , 2021 , 193, 59-63	5.6	9
54	Superior energy storage density and giant negative electrocaloric effects in $(\text{Pb}_{0.98}\text{La}_{0.02})(\text{Zr}, \text{Sn})\text{O}_3$ antiferroelectric ceramics. <i>Scripta Materialia</i> , 2021 , 200, 113920	5.6	9
53	Multifunctionality in $(\text{K},\text{Na})\text{NbO}_3$ -based ceramic near polymorphic phase boundary. <i>Journal of Applied Physics</i> , 2021 , 130, 064102	2.5	1
52	Enhanced electrocaloric strengths at room temperature in $(\text{Sr}_x\text{Ba}_{1-x})(\text{Sn}_{0.05}\text{Ti}_{0.95})\text{O}_3$ lead-free ceramics. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159519	5.7	7
51	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	0.9	
50	Metallic coloration on polyester fabric with sputtered copper and copper oxides films. <i>Vacuum</i> , 2020 , 178, 109489	3.7	12
49	Enhanced Electrocaloric Effect in $0.73\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.27PbTiO_3 Single Crystals via Direct Measurement. <i>Crystals</i> , 2020 , 10, 451	2.3	10
48	Investigations on the properties of $\text{Li}_3\text{La}_{2/3-x}\text{TiO}_3$ 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
47	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

46	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
45	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	
44	A Self-Healing Amalgam Interface in Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004798	24	11
43	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
42	Structural coloration and its application to textiles: a review. <i>Journal of the Textile Institute</i> , 2020 , 111, 756-764	1.5	6
41	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
40	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
39	Enhanced Electrocaloric Effect in Sr-Modified Lead-Free BaZr TiO Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20167-20173	9.5	22
38	Electrocaloric Cooling Materials and Devices for Zero-Global-Warming-Potential, High-Efficiency Refrigeration. <i>Joule</i> , 2019 , 3, 1200-1225	27.8	122
37	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
36	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
35	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
34	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
33	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
32	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
31	Composition dependence of giant electrocaloric effect in Pb Sr ₁ -TiO ₃ ceramics for energy-related applications. <i>Journal of Materiomics</i> , 2019 , 5, 118-126	6.7	12
30	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
29	Direct Measurement of Large Electrocaloric Effect in Ba(ZrTi)O Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4801-4807	9.5	62

28	Large electrocaloric effect in lead-free Ba(ZrxTi1-x)O3 thick film ceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 165-171	5.7	12
27	Giant negative electrocaloric effect in B-site non-stoichiometric (Pb0.97La0.02)(Zr0.95Ti0.05)1+yO3 anti-ferroelectric ceramics. <i>Materials Research Letters</i> , 2018 , 6, 384-389	7.4	14
26	A Review of Advanced Flexible Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2018 , 3, 17003756.8	50	
25	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
24	High energy-storage density of lead-free BiFeO3 doped Na0.5Bi0.5TiO3-BaTiO3 thin film capacitor with good temperature stability. <i>Journal of Alloys and Compounds</i> , 2018 , 757, 169-176	5.7	52
23	Dielectric, Ferroelectric, and Magnetic Properties of Sm-Doped BiFeO3 Ceramics Prepared by a Modified Solid-State-Reaction Method. <i>Materials</i> , 2018 , 11,	3.5	12
22	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
21	Large electrocaloric effect obtained in Ba(SnxTi1-x)O3 lead-free ceramics using direct and indirect measurements. <i>Journal of Advanced Dielectrics</i> , 2018 , 08, 1850038	1.3	5
20	Electrical and thermal properties of surface passivated carbon nanotube/polyvinylidene fluoride composites. <i>IET Nanodielectrics</i> , 2018 , 1, 122-126	2.8	4
19	Enhanced piezoelectric properties and electrocaloric effect in novel lead-free (Bi0.5K0.5)TiO3-La(Mg0.5Ti0.5)O3 ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5503-5513	3.8	16
18	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
17	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
16	Anode Improvement in Rechargeable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700542	24	154
15	Large Electrocaloric Effect in Relaxor Ferroelectric and Antiferroelectric Lanthanum Doped Lead Zirconate Titanate Ceramics. <i>Scientific Reports</i> , 2017 , 7, 45335	4.9	86
14	High-performance lithium ion batteries using SiO2-coated LiNi0.5Co0.2Mn0.3O2 microspheres as cathodes. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 708-716	5.7	67
13	Enhanced electrochemical performance of ZrO2 modified LiNi0.6Co0.2Mn0.2O2 cathode material for lithium ion batteries. <i>Ceramics International</i> , 2017 , 43, 15173-15178	5.1	50
12	Large electrocaloric effect in BaTiO3 based multilayer ceramic capacitors. <i>Science China Technological Sciences</i> , 2016 , 59, 1054-1058	3.5	14
11	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

10	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
9	Oxygen-vacancy-related relaxation and conduction behavior in $(\text{Pb}_{1-x}\text{Ba}_x)(\text{Zr}_{0.95}\text{Ti}_{0.05})\text{O}_3$ ceramics. <i>AIP Advances</i> , 2014 , 4, 107141	1.5	63
8	Pyroelectric and electrocaloric materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 23-37	7.1	177
7	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
6	LARGE ELECTROCALORIC EFFECT IN RELAXOR FERROELECTRICS. <i>Journal of Advanced Dielectrics</i> , 2012 , 02, 1230011	1.3	23
5	Multiferroic Polymer Composites with Greatly Enhanced Magnetoelectric Effect under a Low Magnetic Bias. <i>Advanced Materials</i> , 2011 , 23, n/a-n/a	24	34
4	Recent Advances in the Applications of Ferroelectric Polymers. <i>Recent Patents on Materials Science</i> , 2010 , 3, 40-56	0.3	1
3	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
2	Large electrocaloric effect in ferroelectric polymers near room temperature. <i>Science</i> , 2008 , 321, 821-3	33.3	813
1	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