

Liang-Liang Li

List of Publications by Year in descending order

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109
papers

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125106

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all docs

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5983
citing authors

#	ARTICLE	IF	CITATIONS
1	Composite Cathodes with Succinonitrile-Based Ionic Conductors for Long-Cycle-Life Solid-State Lithium Metal Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	3
2	A Valence Gradient Protective Layer for Dendrite-Free and Highly Stable Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	26
3	Significantly improved interface between PVDF-based polymer electrolyte and lithium metal via thermal-electrochemical treatment. <i>Energy Storage Materials</i> , 2022, 46, 452-460.	9.5	21
4	Balancing oxygen evolution reaction and oxygen reduction reaction processes in Li-O ₂ batteries through tuning the bond distances of RuO ₂ . <i>Composites Part B: Engineering</i> , 2022, 234, 109727.	5.9	5
5	A Cross-Linked Poly(Ethylene Oxide)-Based Electrolyte for All-Solid-State Lithium Metal Batteries With Long Cycling Stability. <i>Frontiers in Materials</i> , 2022, 9, .	1.2	8
6	Super Long-Cycling All-Solid-State Battery with Thin Li ₆ PS ₅ Cl-Based Electrolyte. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	58
7	Ion-Dipole Interaction Regulation Enables High-Performance Single-Ion Polymer Conductors for Solid-State Batteries. <i>Advanced Materials</i> , 2022, 34, .	11.1	49
8	Effects of Molecular Weight on the Electrochemical Properties of Poly(vinylidene difluoride)-Based Polymer Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32075-32083.	4.0	17
9	A volatile redox mediator boosts the long-cycle performance of lithium-oxygen batteries. <i>Energy Storage Materials</i> , 2021, 38, 571-580.	9.5	14
10	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , 2021, 11, 2101370.	10.2	56
11	Synthesis of polycrystalline boron nitride nanotubes with Lead(II) oxide and Iron(III) nitrate nonahydrate as promoters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 133, 114788.	1.3	1
12	Strategies to suppress the shuttle effect of redox mediators in lithium-oxygen batteries. <i>Journal of Energy Chemistry</i> , 2021, 60, 135-149.	7.1	12
13	Polymer electrolytes and interfaces in solid-state lithium metal batteries. <i>Materials Today</i> , 2021, 51, 449-474.	8.3	161
14	High-Performance Flexible Transparent Conductive Films Enabled by a Commonly Used Antireflection Layer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2979-2987.	4.0	8
15	Boron nitride/agarose hydrogel composites with high thermal conductivities. <i>Rare Metals</i> , 2020, 39, 375-382.	3.6	17
16	Boosting thermoelectric performance by in situ growth of metal organic framework on carbon nanotube and subsequent annealing. <i>Carbon</i> , 2020, 157, 324-329.	5.4	31
17	Composition Modulation and Structure Design of Inorganic-Polymer Composite Solid Electrolytes for Advanced Lithium Batteries. <i>Small</i> , 2020, 16, e1902813.	5.2	87
18	Free-standing sulfide/polymer composite solid electrolyte membranes with high conductance for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2020, 25, 145-153.	9.5	85

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19	Rheological Behavior and Thermal Conductivities of Emulsion-Based Thermal Pastes. <i>Journal of Electronic Materials</i> , 2020, 49, 2100-2109.	1.0	3
20	High-conductivity free-standing Li ₆ PS ₅ Cl/poly(vinylidene difluoride) composite solid electrolyte membranes for lithium-ion batteries. <i>Journal of Materiomics</i> , 2020, 6, 70-76.	2.8	51
21	Conductive gel composite cathodes with high mass loading of active oxides for high-performance solid-state lithium metal batteries. <i>Solid State Ionics</i> , 2020, 345, 115196.	1.3	4
22	Organic/Organic Composite Electrolyte Enables Ultralong Cycle Life in Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24837-24844.	4.0	55
23	High Cycling Stability for Solid-State Li Metal Batteries via Regulating Solvation Effect in Poly(Vinylidene Fluoride)-Based Electrolytes. <i>Batteries and Supercaps</i> , 2020, 3, 876-883.	2.4	84
24	Response to Comment on "Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes". <i>Advanced Materials</i> , 2020, 32, e2000026.	11.1	40
25	Oxygen- and dendrite-resistant ultra-dry polymer electrolytes for solid-state Li-O ₂ batteries. <i>Energy Storage Materials</i> , 2020, 27, 244-251.	9.5	45
26	High-performance Li ₆ PS ₅ Cl-based all-solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18612-18618.	5.2	40
27	Development of integrated two-stage thermoelectric generators for large temperature difference. <i>Science China Technological Sciences</i> , 2019, 62, 1596-1604.	2.0	23
28	Experiments and modeling on thermoelectric power generators used for waste heat recovery from hot water pipes. <i>Energy Procedia</i> , 2019, 158, 1052-1058.	1.8	8
29	Ultralow thermal conductance of the van der Waals interface between organic nanoribbons. <i>Materials Today Physics</i> , 2019, 11, 100139.	2.9	25
30	An in Situ-Formed Mosaic Li ₇ Sn ₃ /LiF Interface Layer for High-Rate and Long-Life Garnet-Based Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34939-34947.	4.0	66
31	Phase-separation-driven formation of Nickel/Cobalt oxide nanotubes as high-capacity anode materials for lithium-ion batteries. <i>Materials Research Letters</i> , 2019, 7, 368-375.	4.1	3
32	Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene) Tj ETQq0 0.0 rgBT /Overlock 10	11.1	298
33	Dependence of shear strength of Sn ^{3.8} Ag ^{0.7} Cu/Co ^P solder joints on the P content of Co ^P metallization. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5249-5256.	1.1	4
34	Chapter 5. Properties and Applications of Layered Thermoelectric Materials. <i>RSC Smart Materials</i> , 2019, , 129-164.	0.1	0
35	High Capacity and Superior Cyclic Performances of All-Solid-State Lithium Batteries Enabled by a Glass-Ceramics Solo. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10029-10035.	4.0	37
36	Thermoelectric and mechanical properties of PLA/Bi _{0.5} Sb _{1.5} Te ₃ composite wires used for 3D printing. <i>Composites Science and Technology</i> , 2018, 157, 1-9.	3.8	47

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37	Single-crystalline 2D erucamide with low friction and enhanced thermal conductivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 540, 29-35.	2.3	11
38	Microdiamond/PLA composites with enhanced thermal conductivity through improving filler/matrix interface compatibility. <i>Diamond and Related Materials</i> , 2018, 81, 161-167.	1.8	22
39	Pressurized calcium looping in the presence of steam in a spout-fluidized-bed reactor with DFT analysis. <i>Fuel Processing Technology</i> , 2018, 169, 24-41.	3.7	32
40	Enhanced electrochemical performance of bulk type oxide ceramic lithium batteries enabled by interface modification. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4649-4657.	5.2	98
41	High-performance all-solid-state lithium-sulfur batteries with sulfur/carbon nano-hybrids in a composite cathode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23345-23356.	5.2	48
42	High-Conductivity Argyrodite $\text{Li}_6\text{PS}_5\text{Cl}$ Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42279-42285.	4.0	170
43	Effects of $\text{Li}_{6.75}\text{La}_{3.75}\text{Zr}_{1.75}\text{Ta}_{0.25}\text{O}_{12}$ on chemical and electrochemical properties of polyacrylonitrile-based solid electrolytes. <i>Solid State Ionics</i> , 2018, 327, 32-38.	1.3	55
44	FeVSb-based amorphous films with ultra-low thermal conductivity and high ZT : a potential material for thermoelectric generators. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11435-11445.	5.2	5
45	Micro-thermoelectric generators based on through glass pillars with high output voltage enabled by large temperature difference. <i>Applied Energy</i> , 2018, 225, 600-610.	5.1	46
46	Lithium-Salt-Rich $\text{PEO/Li}_{0.3}\text{La}_{0.557}\text{TiO}_3$ Interpenetrating Composite Electrolyte with Three-Dimensional Ceramic Nano-Backbone for All-Solid-State Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24791-24798.	4.0	230
47	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018, 9, 1813.	5.8	408
48	$\text{BiFeO}_3/\text{SrTiO}_3$ thin film as a new lead-free relaxor-ferroelectric capacitor with ultrahigh energy storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5920-5926.	5.2	218
49	The Gadolinium (Gd^{3+}) and Tin (Sn^{4+}) Co-doped BiFeO_3 Nanoparticles as New Solar Light Active Photocatalyst. <i>Scientific Reports</i> , 2017, 7, 42493.	1.6	115
50	SeO_2 adsorption on CaO surface: DFT study on the adsorption of a single SeO_2 molecule. <i>Applied Surface Science</i> , 2017, 413, 366-371.	3.1	45
51	Enhanced photocatalytic activity of La^{3+} and Se^{4+} co-doped bismuth ferrite nanostructures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11143-11151.	5.2	116
52	SeO_2 adsorption on CaO surface: DFT and experimental study on the adsorption of multiple SeO_2 molecules. <i>Applied Surface Science</i> , 2017, 420, 465-471.	3.1	44
53	All-solid-state lithium battery with high capacity enabled by a new way of composite cathode design. <i>Solid State Ionics</i> , 2017, 310, 44-49.	1.3	12
54	Zerovalent Selenium Adsorption Mechanisms on CaO Surface: DFT Calculation and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7385-7392.	1.1	15

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55	Synergistic Coupling between $\text{Li}_{6.75}\text{La}_3\text{Zr}_{1.75}\text{Ta}_{0.25}\text{O}_{12}$ and Poly(vinylidene fluoride) Induces High Ionic Conductivity, Mechanical Strength, and Thermal Stability of Solid Composite Electrolytes. <i>Journal of the American Chemical Society</i> , 2017, 139, 13779-13785.	6.6	698
56	Liquid Exfoliation Few-Layer SnSe Nanosheets with Tunable Band Gap. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17530-17537.	1.5	75
57	Ferroelectric strain modulation of antiferromagnetic moments in Ni/NiO ferromagnet/antiferromagnet heterostructures. <i>Physical Review B</i> , 2017, 95, .	1.1	17
58	Pb-free silver pastes with $\text{SnO-B}_2\text{O}_3$ glass frits for crystalline silicon solar cells. , 2017, , .		0
59	Embedded Passives. , 2017, , 537-588.		3
60	Pb-free front-contact silver pastes with SnO P2O5 glass frit for crystalline silicon solar cells. <i>Journal of Alloys and Compounds</i> , 2016, 689, 662-668.	2.8	8
61	Density functional theory study on Hg removal mechanisms of Cu-impregnated activated carbon prepared by simplified method. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2869-2877.	1.2	4
62	Fabrication and characterization of thermoelectric power generators with segmented legs synthesized by one-step spark plasma sintering. <i>Energy</i> , 2016, 113, 35-43.	4.5	46
63	Glancing angle deposition of Fe triangular nanoprisms consisting of vertically-layered nanoplates. <i>Journal of Crystal Growth</i> , 2016, 451, 113-119.	0.7	2
64	Significantly enhanced shear strength of Sn-Ag-Cu/Co-P ball grid array solder joints by CoSn_3 intermetallic compound. , 2016, , .		2
65	Thermoelectric and mechanical properties of ZnSb/SiC nanocomposites. <i>Journal of Materials Science</i> , 2016, 51, 5271-5280.	1.7	23
66	A First-Principles Theoretical Study on the Thermoelectric Properties of the Compound $\text{Cu}_5\text{AlSn}_2\text{S}_8$. <i>Journal of Electronic Materials</i> , 2016, 45, 1453-1458.	1.0	6
67	Kinetics of interfacial reaction between Sn-3.0Ag-0.5Cu solder and Co-4.0P or Co-8.0P metallization. , 2015, , .		2
68	Tunable High-Frequency Properties of Co-Ni Ferromagnetic Nanowires Through Composition Modulation. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-6.	1.2	1
69	Thermoelectric Properties of Amorphous Zr-Ni-Sn Thin Films Deposited by Magnetron Sputtering. <i>Journal of Electronic Materials</i> , 2015, 44, 1957-1962.	1.0	12
70	Electronic structures and thermoelectric properties of La or Ce-doped Bi_2Te_3 alloys from first principles calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 85, 239-244.	1.9	11
71	IMC growth and shear strength of Sn-Ag-Cu/Co-P ball grid array solder joints under thermal cycling. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 962-969.	1.1	26
72	Evaluation of Electroplated Co-P Film as Diffusion Barrier Between In-48Sn Solder and SiC-Dispersed Bi_2Te_3 Thermoelectric Material. <i>Journal of Electronic Materials</i> , 2015, 44, 2007-2014.	1.0	14

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73	Microstructure and morphology of interfacial intermetallic compound CoSn ₃ in Sn-Pb/Co-P solder joints. <i>Microelectronics Reliability</i> , 2015, 55, 2403-2411.	0.9	10
74	Microwave properties of ferromagnetic nanowire arrays patterned with periodic and quasi-periodic structures. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	5
75	Effects of silver nanoparticles on the firing behavior of silver paste on crystalline silicon solar cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 466, 132-137.	2.3	26
76	Thermal Resistance Analysis of Sn-Bi Solder Paste Used as Thermal Interface Material for Power Electronics Applications. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2014, 136, .	1.2	30
77	Fast Seebeck coefficient measurement based on dynamic method. <i>Review of Scientific Instruments</i> , 2014, 85, 054904.	0.6	21
78	First-principles study on transition metal-doped anatase TiO ₂ . <i>Nanoscale Research Letters</i> , 2014, 9, 46.	3.1	177
79	Thermoelectric properties of Pb-doped bismuth telluride thin films deposited by magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2014, 590, 362-367.	2.8	52
80	Reliability of Sn-Pb solder joints with Cu and Co-P surface finishes under thermal cycling. , 2014, , .		0
81	Interfacial reaction between Sn-Ag-Cu solder and Co-P films with various microstructures. <i>Acta Materialia</i> , 2013, 61, 4581-4590.	3.8	57
82	Plasmon Absorption of Au-in-CoAl ₂ O ₄ Linear Nanopeapod Chains. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14142-14148.	1.5	20
83	Wettability of Sn-Bi and Sn-Ag-Cu lead-free solder pastes on electroplated Co-P films. , 2013, , .		5
84	Silver-based thermal interface materials with low thermal resistance. , 2012, , .		6
85	Dual-Band Noise Suppressors Based on Co/Au Multilayered Magnetic Nanowires. <i>IEEE Transactions on Magnetism</i> , 2012, 48, 4398-4401.	1.2	9
86	Dependence of interfacial adhesion of Co-P film on its microstructure. <i>Surface and Coatings Technology</i> , 2012, 206, 4822-4827.	2.2	30
87	Phonon thermal conductivity of GaN nanotubes. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	14
88	Synthesis and Magnetic Anisotropy Analysis of Co/Au Multilayered Nanowires. <i>IEEE Transactions on Magnetism</i> , 2012, 48, 3925-3928.	1.2	4
89	Temperature dependence of the Raman spectra of Bi ₂ Te ₃ and Bi _{0.5} Sb _{1.5} Te ₃ thermoelectric films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 268-270.	1.2	24
90	Silver nanoparticle-based thermal interface materials with ultra-low thermal resistance for power electronics applications. <i>Scripta Materialia</i> , 2012, 66, 931-934.	2.6	126

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91	Thermal and insulating properties of epoxy/aluminum nitride composites used for thermal interface material. <i>Journal of Applied Polymer Science</i> , 2012, 124, 669-677.	1.3	111
92	Integrated Microwave Noise Suppressor Fabricated on Magnetic/Dielectric Composite Ceramic Substrate. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2012, 2012, 000208-000215.	0.2	1
93	Viscosity and thermal conductivity of alumina microball/epoxy composites. , 2011, , .		6
94	Synthesis and low-temperature sintering of tin-doped silver nanoparticles. , 2011, , .		0
95	Synthesis and Characterization of Ultrasonic-Assisted Electroplated Co-P Films With Amorphous and Nanocrystalline Structures. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3799-3802.	1.2	15
96	20 Gigahertz noise suppressor based on ferromagnetic nanowire arrays. , 2011, , .		7
97	Low alkaline solution to deposit electroless Ni-Zn-P film on al pad. , 2010, , .		0
98	Numerical simulation on the noise suppression effect of nanogranular magnetic film CoFeHfO on PCB transmission lines. , 2010, , .		1
99	Fabrication and evaluation of microscale thermoelectric modules of Bi ₂ Te ₃ -based alloys. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 125031.	1.5	23
100	Dielectric composite material with enhanced thermal conductivity used for electronic packaging. , 2010, , .		4
101	Multi-pulse electrodeposition of soft magnetic thin film Co-P for embedded inductor application. , 2010, , .		1
102	Embedded Passives. , 2009, , 459-502.		1
103	On-package magnetic materials for embedded inductor applications. , 2009, , .		5
104	Small-Resistance and High-Quality-Factor Magnetic Integrated Inductors on PCB. <i>IEEE Transactions on Advanced Packaging</i> , 2009, 32, 780-787.	1.7	24
105	High-frequency responses of granular CoFeHfO and amorphous CoZrTa magnetic materials. <i>Journal of Applied Physics</i> , 2007, 101, 123912.	1.1	25
106	Tensor Nature of Permeability and Its Effects in Inductive Magnetic Devices. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2373-2375.	1.2	19
107	Package compatibility and substrate dependence of granular soft magnetic material CoFeHfO developed by reactive sputtering. <i>Journal of Applied Physics</i> , 2006, 99, 08M301.	1.1	6
108	Soft magnetic granular material Co-Fe-Hf-O for micromagnetic device applications. <i>Journal of Applied Physics</i> , 2005, 97, 10F907.	1.1	31

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109	Firing and Contact Resistivity of Ag ₂ O-Aided Pb-Free Silver Paste for Crystalline Silicon Solar Cells. Materials Science Forum, 0, 847, 123-130.	0.3	1