

Yuan-Hua Lin

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.

114
papers

4,907
citations

39
h-index

67
g-index

126
ext. papers

6,089
ext. citations

7.5
avg, IF

5.7
L-index

#	Paper	IF	Citations
114	Phase-Field Simulations of Tunable Polar Topologies in Lead-Free Ferroelectric/Paraelectric Multilayers with Ultrahigh Energy Storage Performance.. <i>Advanced Materials</i> , 2022 , e2108772	24	6
113	Toroidal polar topology in strained ferroelectric polymer. <i>Science</i> , 2021 , 371, 1050-1056	33.3	24
112	High thermoelectric performance of high-mobility Ga-doped ZnO films via homogenous interface design. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3992-3999	3.8	0
111	Facile Green Vacuum-Assisted Method for Polyaniline/SWCNT Hybrid Films with Enhanced Thermoelectric Performance by Interfacial Morphology Control. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4081-4089	6.1	6
110	Interfacial advances yielding high efficiencies for thermoelectric devices. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3209-3230	13	6
109	A sandwich structure assisted by defect engineering for higher thermoelectric performance in ZnO-based films. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1370-1378	3.8	4
108	Electrical and thermal transport behaviours of high-entropy perovskite thermoelectric oxides. <i>Journal of Advanced Ceramics</i> , 2021 , 10, 377-384	10.7	21
107	Promoting Metamagnetic Transition by Interphase Magnetic Coupling. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000094	4.3	0
106	Ferroelectric polymers and their nanocomposites for dielectric energy storage applications. <i>APL Materials</i> , 2021 , 9, 020905	5.7	12
105	Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. <i>Science</i> , 2021 , 374, 100-104	33.3	49
104	Role of interfaces in organic/inorganic flexible thermoelectrics. <i>Nano Energy</i> , 2021 , 89, 106380	17.1	9
103	Flexible Thermoelectric Films Based on BiTe Nanosheets and Carbon Nanotube Network with High n-Type Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5451-5459	9.5	12
102	Thermoelectric Performance Enhancement of Vanadium Doped n-Type In ₂ O ₃ Ceramics via Carrier Engineering and Phonon Suppression. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1552-1558	6.1	9
101	High Thermoelectric Performance of AgSbPbSe Prepared by Fast Nonequilibrium Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41333-41341	9.5	4
100	Layered oxygen-containing thermoelectric materials: Mechanisms, strategies, and beyond. <i>Materials Today</i> , 2019 , 29, 68-85	21.8	35
99	High Thermoelectric and Flexible PEDOT/SWCNT/BC Nanoporous Films Derived from Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	7
98	Complex electronic structure and compositing effect in high performance thermoelectric BiCuSeO. <i>Nature Communications</i> , 2019 , 10, 2814	17.4	46

97	Polymer-infiltrated layered silicates for dental restorative materials. <i>Rare Metals</i> , 2019 , 38, 1003-1014	5.5	2
96	Phase-separation-driven formation of NickelCobalt oxide nanotubes as high-capacity anode materials for lithium-ion batteries. <i>Materials Research Letters</i> , 2019 , 7, 368-375	7.4	3
95	Phase-field modeling and machine learning of electric-thermal-mechanical breakdown of polymer-based dielectrics. <i>Nature Communications</i> , 2019 , 10, 1843	17.4	97
94	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019 , 365, 578-582	33.3	353
93	Stabilizing Polyether Electrolyte with a 4 V Metal Oxide Cathode by Nanoscale Interfacial Coating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28774-28780	9.5	19
92	Mechanical-Resonance-Enhanced Thin-Film Magnetolectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. <i>Materials</i> , 2019 , 12,	3.5	29
91	Synergistical Enhancement of Thermoelectric Properties in n-Type Bi2O2Se by Carrier Engineering and Hierarchical Microstructure. <i>Advanced Energy Materials</i> , 2019 , 9, 1900354	21.8	35
90	High-performance Li6PS5Cl-based all-solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18612-18618	13	23
89	BiCuSeO as state-of-the-art thermoelectric materials for energy conversion: from thin films to bulks. <i>Rare Metals</i> , 2018 , 37, 259-273	5.5	22
88	Phase-Field Model of Electrothermal Breakdown in Flexible High-Temperature Nanocomposites under Extreme Conditions. <i>Advanced Energy Materials</i> , 2018 , 8, 1800509	21.8	56
87	Generation of hydrogen under visible light irradiation with enhanced photocatalytic activity of Bi2WO6/Cu1.8Se for organic pollutants under Vis-NIR light reign. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3015-3025	3.8	14
86	Lattice Dynamics and Thermal Conductivity in CuZnCo SnSe. <i>Inorganic Chemistry</i> , 2018 , 57, 6051-6056	5.1	11
85	Boosting the thermoelectric performance of Bi2O2Se by isovalent doping. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4634-4644	3.8	26
84	Synergistically optimizing electrical and thermal transport properties of Bi2O2Se ceramics by Te-substitution. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 326-333	3.8	39
83	Hierarchical porous Li4Ti5O12TiO2 composite anode materials with pseudocapacitive effect for high-rate and low-temperature applications. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14339-14351	13	45
82	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018 , 9, 1813	17.4	237
81	Flexible PANI/SWCNT thermoelectric films with ultrahigh electrical conductivity.. <i>RSC Advances</i> , 2018 , 8, 26011-26019	3.7	29
80	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	13	76

79	High-Conductivity Argyrodite LiPSCl Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42279-42285	8.5	94
78	Enhancements of dielectric and energy storage performances in lead-free films with sandwich architecture. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 936	3.8	8
77	Enhancing the thermoelectric performance of ZnO epitaxial films by Ga doping and thermal tuning. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24128-24135	13	25
76	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	13	4
75	Lithium-Salt-Rich PEO/LiLaTiO 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	9.5	157
74	Enhanced thermoelectric performance of n-type Bi ₂ O ₂ Se by Cl-doping at Se site. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1494-1501	3.8	44
73	BiFeO ₃ /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	13	158
72	Addressing the Interface Issues in All-Solid-State Bulk-Type Lithium Ion Battery via an All-Composite Approach. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9654-9661	9.5	96
71	Mechanical performance of polymer-infiltrated zirconia ceramics. <i>Journal of Dentistry</i> , 2017 , 58, 60-66	4.8	17
70	Self-etching NiTiO hydroxides@NiTiO nanowire arrays with enhancing ultrahigh areal capacitance for flexible thin-film supercapacitors. <i>Rare Metals</i> , 2017 , 36, 691-697	5.5	8
69	Ultrathin N-doped carbon-coated TiO ₂ coaxial nanofibers as anodes for lithium ion batteries. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2939-2947	3.8	11
68	Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrier-phonon coupling. <i>Energy and Environmental Science</i> , 2017 , 10, 1590-1599	35.4	94
67	Interfacial orbital preferential occupation induced controllable uniaxial magnetic anisotropy observed in Ni/NiO(110) heterostructures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	11
66	A surface-modified TiO ₂ nanorod array/P(VDF/TrFE) dielectric capacitor with ultra high energy density and efficiency. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12777-12784	7.1	51
65	High thermoelectric performance of Bi _{1-x} K _x CuSeO prepared by combustion synthesis. <i>Journal of Materials Science</i> , 2017 , 52, 11569-11579	4.3	6
64	Enhanced Photocatalytic Performance under Visible and Near-Infrared Irradiation of CuSe/CuSe _{1-x} S _x Composite via a Phase Junction. <i>Nanomaterials</i> , 2017 , 7,	5.4	21
63	Bi(1-x)La(x)CuSeO as New Tunable Full Solar Light Active Photocatalysts. <i>Scientific Reports</i> , 2016 , 6, 24620	4.9	15
62	Synergistically Optimizing Electrical and Thermal Transport Properties of BiCuSeO via a Dual-Doping Approach. <i>Advanced Energy Materials</i> , 2016 , 6, 1502423	21.8	135

61	Enhanced Thermoelectric Performance of SmBaCuFeO ₅ +Ag Composite Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1266-1270	3.8	7
60	Contribution of point defects and nano-grains to thermal transport behaviours of oxide-based thermoelectrics. <i>Npj Computational Materials</i> , 2016 , 2,	10.9	31
59	Optimization of the thermoelectric properties of Bi ₂ O ₂ Se ceramics by altering the temperature of spark plasma sintering. <i>Journal of Electroceramics</i> , 2016 , 37, 66-72	1.5	14
58	High strength and toughness in chromatic polymer-infiltrated zirconia ceramics. <i>Dental Materials</i> , 2016 , 32, 1555-1563	5.7	7
57	A comprehensive review on synthesis methods for transition-metal oxide nanostructures. <i>CrystEngComm</i> , 2015 , 17, 3551-3585	3.3	172
56	Enhanced thermoelectric performance of In ₂ O ₃ -based ceramics via Nanostructuring and Point Defect Engineering. <i>Scientific Reports</i> , 2015 , 5, 7783	4.9	53
55	Enhanced Thermoelectric Properties of Bi ₂ O ₂ Se Ceramics by Bi Deficiencies. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2465-2469	3.8	62
54	Low-dimensional nanostructured photocatalysts. <i>Journal of Advanced Ceramics</i> , 2015 , 4, 159-182	10.7	18
53	High Performance Oxides-Based Thermoelectric Materials. <i>Jom</i> , 2015 , 67, 211-221	2.1	55
52	Electrical and Thermal Conduction Behaviors in La-Substituted GdBaCuFeO ₅ + δ Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3179-3184	3.8	4
51	Enhanced Thermoelectric Performance of Bi ₂ O ₂ Se with Ag Addition. <i>Materials</i> , 2015 , 8, 1568-1576	3.5	33
50	Encapsulating Tin Dioxide@Porous Carbon in Carbon Tubes: A Fiber-in-Tube Hierarchical Nanostructure for Superior Capacity and Long-Life Lithium Storage. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 952-961	3.1	15
49	High-temperature thermoelectric behaviors of Sn-doped n-type Bi ₂ O ₂ Se ceramics. <i>Journal of Electroceramics</i> , 2015 , 34, 175-179	1.5	50
48	Sol-gel derived Li _{0.4} Zr _{0.6} O thin films as solid electrolytes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13277	13	68
47	Magnetic and Photocatalytic Behaviors of Ba-Doped BiFeO ₃ Nanofibers. <i>International Journal of Applied Ceramic Technology</i> , 2014 , 11, 676-680	2	10
46	Photocatalytic behaviors observed in Ba and Mn doped BiFeO ₃ nanofibers. <i>Journal of Electroceramics</i> , 2013 , 31, 271-274	1.5	22
45	Evidence of an interlayer charge transfer route in BiCu _{1-x} SeO. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12154	13	25
44	Thermoelectric Properties of Pb-Doped BiCuSeO Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2710-2713	3.8	42

43	Ferromagnetic and optical behaviors observed in Mn-doped ZnO-based thin films. <i>Thin Solid Films</i> , 2013 , 537, 239-241	2.2	9
42	Tunable Ferromagnetic Behaviors Observed in Highly Orientated Co-Doped ZnO Thin Films by the Bandgap Engineering. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 361-364	3.8	9
41	Doping for higher thermoelectric properties in p-type BiCuSeO oxyselenide. <i>Applied Physics Letters</i> , 2013 , 102, 123905	3.4	71
40	High-Temperature Transport Property of In ₂ Ce _x O ₃ (0 ≤ x ≤ 1.0) Fine Grained Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2568-2572	3.8	20
39	High Thermoelectric Performance of Nanostructured In ₂ O ₃ -Based Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2465-2469	3.8	34
38	Influence of Al ₂ O ₃ additive on the dielectric behavior and energy density of Ba _{0.5} Sr _{0.5} TiO ₃ ceramics. <i>Journal of Electroceramics</i> , 2012 , 29, 95-98	1.5	18
37	Dielectric and nonlinear electrical behaviors of Ce-doped CaCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of Electroceramics</i> , 2012 , 29, 250-253	1.5	14
36	Polycrystalline BiCuSeO oxide as a potential thermoelectric material. <i>Energy and Environmental Science</i> , 2012 , 5, 7188	35.4	203
35	High Temperature Transport Property of Copper site Doped La ₂ CuO ₄ . <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1471-1476	3.8	4
34	Thermoelectric Performance of Zn and Ge Co-Doped In ₂ O ₃ Fine-Grained Ceramics by the Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2279-2281	3.8	13
33	Synthesis and Photocatalytic Behaviors of High Surface Area BiFeO ₃ Thin Films. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2296-2299	3.8	36
32	Thermoelectric Performance of Zn and Nd Co-doped In ₂ O ₃ Ceramics. <i>Journal of Electronic Materials</i> , 2011 , 40, 1083-1086	1.9	11
31	Ferromagnetism in antiferromagnetic NiO-based thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 043921	2.5	11
30	Tunable ferromagnetism in Ni _{0.97} Mn _y O thin films with hole doping and their electronic structures. <i>Physical Review B</i> , 2011 , 83,	3.3	5
29	Effect of nonmagnetic alkaline-earth dopants on magnetic properties of BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 033922	2.5	26
28	MAGNETOELECTRIC RESPONSES IN MULTIFERROIC COMPOSITE THIN FILMS. <i>Journal of Advanced Dielectrics</i> , 2011 , 01, 1-16	1.3	10
27	High-Temperature Thermoelectric Behaviors of Fine-Grained Gd-Doped CaMnO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2121-2124	3.8	58
26	Effect of Transition-Metal Cobalt Doping on the Thermoelectric Performance of In ₂ O ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2938-2941	3.8	33

25	Electric and Dielectric Behaviors of Y-Doped Calcium Copper Titanate. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3043-3045	3.8	38
24	High-temperature electrical transport behaviors of the layered Ca ₂ Co ₂ O ₅ -based ceramics. <i>Applied Physics Letters</i> , 2010 , 96, 192104	3.4	39
23	Controlled Fabrication of BiFeO ₃ Uniform Microcrystals and Their Magnetic and Photocatalytic Behaviors. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2903-2908	3.8	328
22	High-temperature ferroelectric phase transition observed in multiferroic Bi _{0.91} La _{0.05} Tb _{0.04} FeO ₃ . <i>Applied Physics Letters</i> , 2009 , 95, 012909	3.4	20
21	High-temperature electrical transport behaviors in textured Ca ₃ Co ₄ O ₉ -based polycrystalline ceramics. <i>Applied Physics Letters</i> , 2009 , 94, 072107	3.4	91
20	Dielectric and nonlinear electrical behaviors of La-doped CaCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of Applied Physics</i> , 2009 , 106, 034111	2.5	43
19	High-Temperature Thermoelectric Properties in the La _{2-x} RxCuO ₄ (R: Pr, Y, Nb) Ceramics. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 934-937	3.8	22
18	BiFeO ₃ /TiO ₂ core-shell structured nanocomposites as visible-active photocatalysts and their optical response mechanism. <i>Journal of Applied Physics</i> , 2009 , 105, 054310	2.5	117
17	Grain boundary behavior in varistor-capacitor TiO ₂ -rich CaCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of Applied Physics</i> , 2008 , 103, 074111	2.5	93
16	Characterization and properties of anatase TiO ₂ film prepared via colloidal sol method under low temperature. <i>Journal of Electroceramics</i> , 2008 , 21, 795-797	1.5	10
15	High-Temperature Electrical Transport Behavior Observed in the La _{1.96} M _{0.04} CuO ₄ (M: Mg, Ca, Sr) Polycrystalline Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2055-2058	3.8	6
14	Ferroc Properties of Highly Dense Multiferroic Bi _{1-x} La _{0.05} TbxFeO ₃ Ceramics Via Sheltered Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2189-2194	3.8	11
13	Magnetic and Electrical Properties of (Mn, La)-Codoped SrTiO ₃ Thin Films. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3263-3266	3.8	19
12	Sintering Temperature Dependence of Grain Boundary Resistivity in a Rare-Earth-Doped ZnO Varistor. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 291-294	3.8	47
11	High-Temperature Electrical Transport and Thermoelectric Power of Partially Substituted Ca ₃ Co ₄ O ₉ -Based Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 132-136	3.8	70
10	Tunable Trap Levels Observed in La and Eu Codoped CaAl ₂ O ₄ -Based Phosphor. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2992-2994	3.8	8
9	Electrical Transport Properties of La ₂ CuO ₄ Ceramics Processed by the Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070924065850007-???	3.8	0
8	Polymer composite electrolytes containing ionically active mesoporous SiO ₂ particles. <i>Journal of Applied Physics</i> , 2007 , 102, 054907	2.5	23

7	Optical absorption and electrical transport in hybrid TiO ₂ and polymer nanocomposite films. <i>Applied Physics Letters</i> , 2006 , 88, 243119	3.4	7
6	Ferromagnetism and electrical transport in Fe-doped NiO. <i>Physical Review B</i> , 2006 , 73,	3.3	46
5	Room-temperature ferromagnetism observed in Fe-doped NiO. <i>Applied Physics Letters</i> , 2005 , 87, 2025013.4	3.4	76
4	Self-organized Synthesis of Silver Chainlike and Dendritic Nanostructures via a Solvothermal Method. <i>Chemistry of Materials</i> , 2003 , 15, 4436-4441	9.6	97
3	Seeking New Layered Oxyselenides with Promising Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2113164	15.6	0
2	High energy storage capability of perovskite relaxor ferroelectrics via hierarchical optimization. <i>Rare Metals</i> , 1	5.5	1
1	Facilitating Complex Thin Film Deposition by Using Magnetron Sputtering: A Review. <i>Jom</i> , 1	2.1	0