Yuan-Hua Lin

List of Publications by Citations

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	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. *Science*, **2019**, 365, 578-582	33.3	353
113	Controlled Fabrication of BiFeO3 Uniform Microcrystals and Their Magnetic and Photocatalytic Behaviors. *Journal of Physical Chemistry C*, **2010**, 114, 2903-2908	3.8	328
112	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. *Nature Communications*, **2018**, 9, 1813	17.4	237
111	Polycrystalline BiCuSeO oxide as a potential thermoelectric material. *Energy and Environmental Science*, **2012**, 5, 7188	35.4	203
110	A comprehensive review on synthesis methods for transition-metal oxide nanostructures. *CrystEngComm*, **2015**, 17, 3551-3585	3.3	172
109	BiFeO3–SrTiO3 thin film as a new lead-free relaxor-ferroelectric capacitor with ultrahigh energy storage performance. *Journal of Materials Chemistry A*, **2017**, 5, 5920-5926	13	158
108	Lithium-Salt-Rich PEO/LiLaTiO Interpenetrating Composite Electrolyte with Three-Dimensional Ceramic Nano-Backbone for All-Solid-State Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 24791-24798	9.5	157
107	Synergistically Optimizing Electrical and Thermal Transport Properties of BiCuSeO via a Dual-Doping Approach. *Advanced Energy Materials*, **2016**, 6, 1502423	21.8	135
106	BiFeO3/TiO2 core-shell structured nanocomposites as visible-active photocatalysts and their optical response mechanism. *Journal of Applied Physics*, **2009**, 105, 054310	2.5	117
105	Phase-field modeling and machine learning of electric-thermal-mechanical breakdown of polymer-based dielectrics. *Nature Communications*, **2019**, 10, 1843	17.4	97
104	Self-organized Synthesis of Silver Chainlike and Dendritic Nanostructures via a Solvothermal Method. *Chemistry of Materials*, **2003**, 15, 4436-4441	9.6	97
103	Addressing the Interface Issues in All-Solid-State Bulk-Type Lithium Ion Battery via an All-Composite Approach. *ACS Applied Materials & Interfaces*, **2017**, 9, 9654-9661	9.5	96
102	Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrier–phonon coupling. *Energy and Environmental Science*, **2017**, 10, 1590-1599	35.4	94
101	High-Conductivity Argyrodite LiPSCl Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 42279-42285	9.5	94
100	Grain boundary behavior in varistor-capacitor TiO2-rich CaCu3Ti4O12 ceramics. *Journal of Applied Physics*, **2008**, 103, 074111	2.5	93
99	High-temperature electrical transport behaviors in textured Ca3Co4O9-based polycrystalline ceramics. *Applied Physics Letters*, **2009**, 94, 072107	3.4	91
98	Room-temperature ferromagnetism observed in Fe-doped NiO. *Applied Physics Letters*, **2005**, 87, 202501	3.4	76

97	Enhanced electrochemical performance of bulk type oxide ceramic lithium batteries enabled by interface modification. *Journal of Materials Chemistry A*, **2018**, 6, 4649-4657	13	76
96	Doping for higher thermoelectric properties in p-type BiCuSeO oxyselenide. *Applied Physics Letters*, **2013**, 102, 123905	3.4	71
95	High-Temperature Electrical Transport and Thermoelectric Power of Partially Substituted Ca3Co4O9-Based Ceramics. *Journal of the American Ceramic Society*, **2007**, 90, 132-136	3.8	70
94	Sol□gel derived Li□La□Zr□O thin films as solid electrolytes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 13277	13	68
93	Enhanced Thermoelectric Properties of Bi2O2Se Ceramics by Bi Deficiencies. *Journal of the American Ceramic Society*, **2015**, 98, 2465-2469	3.8	62
92	High-Temperature Thermoelectric Behaviors of Fine-Grained Gd-Doped CaMnO3 Ceramics. *Journal of the American Ceramic Society*, **2010**, 93, 2121-2124	3.8	58
91	Phase-Field Model of Electrothermal Breakdown in Flexible High-Temperature Nanocomposites under Extreme Conditions. *Advanced Energy Materials*, **2018**, 8, 1800509	21.8	56
90	High Performance Oxides-Based Thermoelectric Materials. *Jom*, **2015**, 67, 211-221	2.1	55
89	Enhanced thermoelectric performance of In2O3-based ceramics via Nanostructuring and Point Defect Engineering. *Scientific Reports*, **2015**, 5, 7783	4.9	53
88	A surface-modified TiO2 nanorod array/P(VDF□HFP) dielectric capacitor with ultra high energy density and efficiency. *Journal of Materials Chemistry C*, **2017**, 5, 12777-12784	7.1	51
87	High-temperature thermoelectric behaviors of Sn-doped n-type Bi2O2Se ceramics. *Journal of Electroceramics*, **2015**, 34, 175-179	1.5	50
86	Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. *Science*, **2021**, 374, 100-104	33.3	49
85	Sintering Temperature Dependence of Grain Boundary Resistivity in a Rare-Earth-Doped ZnO Varistor. *Journal of the American Ceramic Society*, **2007**, 90, 291-294	3.8	47
84	Complex electronic structure and compositing effect in high performance thermoelectric BiCuSeO. *Nature Communications*, **2019**, 10, 2814	17.4	46
83	Ferromagnetism and electrical transport in Fe-doped NiO. *Physical Review B*, **2006**, 73,	3.3	46
82	Hierarchical porous Li4Ti5O12□TiO2 composite anode materials with pseudocapacitive effect for high-rate and low-temperature applications. *Journal of Materials Chemistry A*, **2018**, 6, 14339-14351	13	45
81	Enhanced thermoelectric performance of n-type Bi2O2Se by Cl-doping at Se site. *Journal of the American Ceramic Society*, **2017**, 100, 1494-1501	3.8	44
80	Dielectric and nonlinear electrical behaviors of La-doped CaCu3Ti4O12 ceramics. *Journal of Applied Physics*, **2009**, 106, 034111	2.5	43

79	Thermoelectric Properties of Pb-Doped BiCuSeO Ceramics. *Journal of the American Ceramic Society*, **2013**, 96, 2710-2713	3.8	42
78	Synergistically optimizing electrical and thermal transport properties of Bi2O2Se ceramics by Te-substitution. *Journal of the American Ceramic Society*, **2018**, 101, 326-333	3.8	39
77	High-temperature electrical transport behaviors of the layered Ca2Co2O5-based ceramics. *Applied Physics Letters*, **2010**, 96, 192104	3.4	39
76	Electric and Dielectric Behaviors of Y-Doped Calcium Copper Titanate. *Journal of the American Ceramic Society*, **2010**, 93, 3043-3045	3.8	38
75	Synthesis and Photocatalytic Behaviors of High Surface Area BiFeO3 Thin Films. *Journal of the American Ceramic Society*, **2011**, 94, 2296-2299	3.8	36
74	Layered oxygen-containing thermoelectric materials: Mechanisms, strategies, and beyond. *Materials Today*, **2019**, 29, 68-85	21.8	35
73	Synergistical Enhancement of Thermoelectric Properties in n-Type Bi2O2Se by Carrier Engineering and Hierarchical Microstructure. *Advanced Energy Materials*, **2019**, 9, 1900354	21.8	35
72	High Thermoelectric Performance of Nanostructured In2O3-Based Ceramics. *Journal of the American Ceramic Society*, **2012**, 95, 2465-2469	3.8	34
71	Enhanced Thermoelectric Performance of Bi2O2Se with Ag Addition. *Materials*, **2015**, 8, 1568-1576	3.5	33
70	Effect of Transition-Metal Cobalt Doping on the Thermoelectric Performance of In2O3 Ceramics. *Journal of the American Ceramic Society*, **2010**, 93, 2938-2941	3.8	33
69	Contribution of point defects and nano-grains to thermal transport behaviours of oxide-based thermoelectrics. *Npj Computational Materials*, **2016**, 2,	10.9	31
68	Flexible PANI/SWCNT thermoelectric films with ultrahigh electrical conductivity.. *RSC Advances*, **2018**, 8, 26011-26019	3.7	29
67	Mechanical-Resonance-Enhanced Thin-Film Magnetoelectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. *Materials*, **2019**, 12,	3.5	29
66	Boosting the thermoelectric performance of Bi2O2Se by isovalent doping. *Journal of the American Ceramic Society*, **2018**, 101, 4634-4644	3.8	26
65	Effect of nonmagnetic alkaline-earth dopants on magnetic properties of BiFeO3 thin films. *Journal of Applied Physics*, **2011**, 110, 033922	2.5	26
64	Evidence of an interlayer charge transfer route in BiCu1⊠SeO. *Journal of Materials Chemistry A*, **2013**, 1, 12154	13	25
63	Enhancing the thermoelectric performance of ZnO epitaxial films by Ga doping and thermal tuning. *Journal of Materials Chemistry A*, **2018**, 6, 24128-24135	13	25
62	Toroidal polar topology in strained ferroelectric polymer. *Science*, **2021**, 371, 1050-1056	33.3	24

61	High-performance Li6PS5Cl-based all-solid-state lithium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 18612-18618	13	23
60	Polymer composite electrolytes containing ionically active mesoporous SiO2 particles. *Journal of Applied Physics*, **2007**, 102, 054907	2.5	23
59	BiCuSeO as state-of-the-art thermoelectric materials for energy conversion: from thin films to bulks. *Rare Metals*, **2018**, 37, 259-273	5.5	22
58	Photocatalytic behaviors observed in Ba and Mn doped BiFeO3 nanofibers. *Journal of Electroceramics*, **2013**, 31, 271-274	1.5	22
57	High-Temperature Thermoelectric Properties in the La2−xRxCuO4 (R: Pr, Y, Nb) Ceramics. *Journal of the American Ceramic Society*, **2009**, 92, 934-937	3.8	22
56	Enhanced Photocatalytic Performance under Visible and Near-Infrared Irradiation of CuSe/Cu3Se2 Composite via a Phase Junction. *Nanomaterials*, **2017**, 7,	5.4	21
55	Electrical and thermal transport behaviours of high-entropy perovskite thermoelectric oxides. *Journal of Advanced Ceramics*, **2021**, 10, 377-384	10.7	21
54	High-Temperature Transport Property of In2−xCexO3 (0≤x≤0.10) Fine Grained Ceramics. *Journal of the American Ceramic Society*, **2012**, 95, 2568-2572	3.8	20
53	High-temperature ferroelectric phase transition observed in multiferroic Bi0.91La0.05Tb0.04FeO3. *Applied Physics Letters*, **2009**, 95, 012909	3.4	20
52	Stabilizing Polyether Electrolyte with a 4 V Metal Oxide Cathode by Nanoscale Interfacial Coating. *ACS Applied Materials & Interfaces*, **2019**, 11, 28774-28780	9.5	19
51	Magnetic and Electrical Properties of (Mn, La)-Codoped SrTiO3 Thin Films. *Journal of the American Ceramic Society*, **2008**, 91, 3263-3266	3.8	19
50	Low-dimensional nanostructured photocatalysts. *Journal of Advanced Ceramics*, **2015**, 4, 159-182	10.7	18
49	Influence of Al2O3 additive on the dielectric behavior and energy density of Ba0.5Sr0.5TiO3 ceramics. *Journal of Electroceramics*, **2012**, 29, 95-98	1.5	18
48	Mechanical performance of polymer-infiltrated zirconia ceramics. *Journal of Dentistry*, **2017**, 58, 60-66	4.8	17
47	Bi(1-x)La(x)CuSeO as New Tunable Full Solar Light Active Photocatalysts. *Scientific Reports*, **2016**, 6, 24620	4.9	15
46	Encapsulating Tin Dioxide@Porous Carbon in Carbon Tubes: A Fiber-in-Tube Hierarchical Nanostructure for Superior Capacity and Long-Life Lithium Storage. *Particle and Particle Systems Characterization*, **2015**, 32, 952-961	3.1	15
45	Generation of hydrogen under visible light irradiation with enhanced photocatalytic activity of Bi2WO6/Cu1.8Se for organic pollutants under Vis-NIR light reign. *Journal of the American Ceramic Society*, **2018**, 101, 3015-3025	3.8	14
44	Dielectric and nonlinear electrical behaviors of Ce-doped CaCu3Ti4O12 ceramics. *Journal of Electroceramics*, **2012**, 29, 250-253	1.5	14

43	Optimization of the thermoelectric properties of Bi2O2Se ceramics by altering the temperature of spark plasma sintering. *Journal of Electroceramics*, **2016**, 37, 66-72	1.5	14
42	Thermoelectric Performance of Zn and Ge Co-Doped In2O3 Fine-Grained Ceramics by the Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2011**, 94, 2279-2281	3.8	13
41	Ferroelectric polymers and their nanocomposites for dielectric energy storage applications. *APL Materials*, **2021**, 9, 020905	5.7	12
40	Flexible Thermoelectric Films Based on BiTe Nanosheets and Carbon Nanotube Network with High n-Type Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 5451-5459	9.5	12
39	Ultrathin N-doped carbon-coated TiO2 coaxial nanofibers as anodes for lithium ion batteries. *Journal of the American Ceramic Society*, **2017**, 100, 2939-2947	3.8	11
38	Lattice Dynamics and Thermal Conductivity in CuZnCo SnSe. *Inorganic Chemistry*, **2018**, 57, 6051-6056	5.1	11
37	Interfacial orbital preferential occupation induced controllable uniaxial magnetic anisotropy observed in Ni/NiO(110) heterostructures. *Npj Quantum Materials*, **2017**, 2,	5	11
36	Thermoelectric Performance of Zn and Nd Co-doped In2O3 Ceramics. *Journal of Electronic Materials* , **2011**, 40, 1083-1086	1.9	11
35	Ferromagnetism in antiferromagnetic NiO-based thin films. *Journal of Applied Physics*, **2011**, 110, 043921	2.5	11
34	Ferroic Properties of Highly Dense Multiferroic Bi1−xLa0.05TbxFeO3 Ceramics Via Sheltered Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2008**, 91, 2189-2194	3.8	11
33	Magnetic and Photocatalytic Behaviors of Ba-Doped BiFeO3 Nanofibers. *International Journal of Applied Ceramic Technology*, **2014**, 11, 676-680	2	10
32	MAGNETOELECTRIC RESPONSES IN MULTIFERROIC COMPOSITE THIN FILMS. *Journal of Advanced Dielectrics*, **2011**, 01, 1-16	1.3	10
31	Characterization and properties of anatase TiO2 film prepared via colloidal sol method under low temperature. *Journal of Electroceramics*, **2008**, 21, 795-797	1.5	10
30	Ferromagnetic and optical behaviors observed in Mn-doped ZnO-based thin films. *Thin Solid Films*, **2013**, 537, 239-241	2.2	9
29	Tunable Ferromagnetic Behaviors Observed in Highly Orientated Co-Doped ZnO Thin Films by the Bandgap Engineering. *Journal of the American Ceramic Society*, **2013**, 96, 361-364	3.8	9
28	Thermoelectric Performance Enhancement of Vanadium Doped n-Type In2O3 Ceramics via Carrier Engineering and Phonon Suppression. *ACS Applied Energy Materials*, **2020**, 3, 1552-1558	6.1	9
27	Role of interfaces in organic–inorganic flexible thermoelectrics. *Nano Energy*, **2021**, 89, 106380	17.1	9
26	Self-etching Ni–Co hydroxides@Ni–Cu nanowire arrays with enhancing ultrahigh areal capacitance for flexible thin-film supercapacitors. *Rare Metals*, **2017**, 36, 691-697	5.5	8

25	Tunable Trap Levels Observed in La and Eu Codoped CaAl2O4-Based Phosphor. *Journal of the American Ceramic Society*, **2007**, 90, 2992-2994	3.8	8
24	Enhancements of dielectric and energy storage performances in lead-free films with sandwich architecture. *Journal of the American Ceramic Society*, **2018**, 102, 936	3.8	8
23	High Thermoelectric and Flexible PEDOT/SWCNT/BC Nanoporous Films Derived from Aerogels. *ACS Sustainable Chemistry and Engineering*, **2019**,	8.3	7
22	Optical absorption and electrical transport in hybrid TiO2 and polymer nanocomposite films. *Applied Physics Letters*, **2006**, 88, 243119	3.4	7
21	Enhanced Thermoelectric Performance of SmBaCuFeO5+ Ag Composite Ceramics. *Journal of the American Ceramic Society*, **2016**, 99, 1266-1270	3.8	7
20	High strength and toughness in chromatic polymer-infiltrated zirconia ceramics. *Dental Materials*, **2016**, 32, 1555-1563	5.7	7
19	High thermoelectric performance of Bi1 K x CuSeO prepared by combustion synthesis. *Journal of Materials Science*, **2017**, 52, 11569-11579	4.3	6
18	High-Temperature Electrical Transport Behavior Observed in the La1.96M0.04CuO4 (M: Mg, Ca, Sr) Polycrystalline Ceramics. *Journal of the American Ceramic Society*, **2008**, 91, 2055-2058	3.8	6
17	Phase-Field Simulations of Tunable Polar Topologies in Lead-Free Ferroelectric/Paraelectric Multilayers with Ultrahigh Energy Storage Performance.. *Advanced Materials*, **2022**, e2108772	24	6
16	Facile Green Vacuum-Assisted Method for Polyaniline/SWCNT Hybrid Films with Enhanced Thermoelectric Performance by Interfacial Morphology Control. *ACS Applied Energy Materials*, **2021** , 4, 4081-4089	6.1	6
15	Interfacial advances yielding high efficiencies for thermoelectric devices. *Journal of Materials Chemistry A*, **2021**, 9, 3209-3230	13	6
14	Tunable ferromagnetism in Ni0.97 MnyO thin films with hole doping and their electronic structures. *Physical Review B*, **2011**, 83,	3.3	5
13	Electrical and Thermal Conduction Behaviors in La-Substituted GdBaCuFeO5+ Ceramics. *Journal of the American Ceramic Society*, **2015**, 98, 3179-3184	3.8	4
12	High Temperature Transport Property of Copper site Doped La2CuO4. *Journal of the American Ceramic Society*, **2011**, 94, 1471-1476	3.8	4
11	High Thermoelectric Performance of AgSbPbSe Prepared by Fast Nonequilibrium Synthesis. *ACS Applied Materials & Interfaces*, **2020**, 12, 41333-41341	9.5	4
10	A sandwich structure assisted by defect engineering for higher thermoelectric performance in ZnO-based films. *Journal of the American Ceramic Society*, **2021**, 104, 1370-1378	3.8	4
9	FeVSb-based amorphous films with ultra-low thermal conductivity and high ZT: a potential material for thermoelectric generators. *Journal of Materials Chemistry A*, **2018**, 6, 11435-11445	13	4
8	Phase-separation-driven formation of Nickel Cobalt oxide nanotubes as high-capacity anode materials for lithium-ion batteries. *Materials Research Letters*, **2019**, 7, 368-375	7.4	3

7	Polymer-infiltrated layered silicates for dental restorative materials. *Rare Metals*, **2019**, 38, 1003-1014	5.5	2
6	High energy storage capability of perovskite relaxor ferroelectrics via hierarchical optimization. *Rare Metals*,1	5.5	1
5	Electrical Transport Properties of La2CuO4 Ceramics Processed by the Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2007**, 90, 070924065850007-???	3.8	0
4	Seeking New Layered Oxyselenides with Promising Thermoelectric Performance. *Advanced Functional Materials*,2113164	15.6	0
3	High thermoelectric performance of high-mobility Ga-doped ZnO films via homogenous interface design. *Journal of the American Ceramic Society*, **2021**, 104, 3992-3999	3.8	0
2	Promoting Metamagnetic Transition by Interphase Magnetic Coupling. *Advanced Quantum Technologies*, **2021**, 4, 2000094	4.3	0
1	Facilitating Complex Thin Film Deposition by Using Magnetron Sputtering: A Review. *Jom*,1	2.1	0