Yuan-Hua Lin

List of Publications by Year in Descending Order

128 papers	8,390 citations	46 h-index	90 g-index
135 ext. papers	9,544 ext. citations	7.6 avg, IF	6.07 L-index

#	Paper	IF	Citations
128	Application of 3D-Printed, PLGA-Based Scaffolds in Bone Tissue Engineering. *International Journal of Molecular Sciences*, **2022**, 23, 5831	6.3	2
127	Enhanced CO2 Reduction Performance of BiCuSeO-Based Hybrid Catalysts by Synergetic Photo-Thermoelectric Effect. *Advanced Functional Materials*, **2021**, 31, 2105001	15.6	1
126	Surface-reconstructed formation of hierarchical TiO2 mesoporous nanosheets with fast lithium-storage capability. *Materials Chemistry Frontiers*, **2021**, 5, 3216-3225	7.8	10
125	Electrical and thermal transport behaviours of high-entropy perovskite thermoelectric oxides. *Journal of Advanced Ceramics*, **2021**, 10, 377-384	10.7	21
124	Spatially resolving heterogeneous thermal conductivity of BiCuSeO based thermoelectric nanostructures via scanning thermal microscopy. *Applied Physics Letters*, **2020**, 117, 133102	3.4	3
123	Exclusive enhancement of catalytic activity in Bi0.5Na0.5TiO3 nanostructures: new insights into the design of efficient piezocatalysts and piezo-photocatalysts. *Journal of Materials Chemistry A*, **2020**, 8, 16238-16245	13	34
122	Mechanical and biocompatible properties of polymer-infiltrated-ceramic-network materials for dental restoration. *Journal of Advanced Ceramics*, **2020**, 9, 123-128	10.7	7
121	An alternating multilayer architecture boosts ultrahigh energy density and high discharge efficiency in polymer composites.. *RSC Advances*, **2020**, 10, 5886-5893	3.7	6
120	Response to Comment on "Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes". *Advanced Materials*, **2020**, 32, e2000026	24	24
119	(002) Oriented Bi2O2CO3 Nanosheets with Enhanced Photocatalytic Performance for Toluene Removal in Air. *Catalysts*, **2020**, 10, 389	4	8
118	Reduced Thermal Conductivity of Mg(Si, Sn) Solid Solutions by a Gradient Composition Layered Microstructure. *ACS Applied Materials & Interfaces*, **2020**, 12, 19547-19552	9.5	6
117	Interfacial-hybridization-modified Ir ferromagnetism and electronic structure in LaMnO3/SrIrO3 superlattices. *Physical Review Research*, **2020**, 2,	3.9	4
116	Carbon Quantum Dots Modified (002) Oriented BiOCO Composites with Enhanced Photocatalytic Removal of Toluene in Air. *Nanomaterials*, **2020**, 10,	5.4	4
115	Ensemble-machine-learning-based correlation analysis of internal and band characteristics of thermoelectric materials. *Journal of Materials Chemistry C*, **2020**, 8, 13079-13089	7.1	3
114	High Thermoelectric Performance of AgSbPbSe Prepared by Fast Nonequilibrium Synthesis. *ACS Applied Materials & Interfaces*, **2020**, 12, 41333-41341	9.5	4
113	Composition Modulation and Structure Design of Inorganic-in-Polymer Composite Solid Electrolytes for Advanced Lithium Batteries. *Small*, **2020**, 16, e1902813	11	44
112	Physical and chemical strains co-tuned magnetic properties of double perovskite PrBaMn2O5.5+□ epitaxial films. *Applied Physics Letters*, **2019**, 115, 081903	3.4	2

111	Voltage-Driven Nonlinearity in Magnetoelectric Heterostructures. *Physical Review Applied*, **2019**, 12,	4.3	8
110	Strong phonon localization in PbTe with dislocations and large deviation to Matthiessen□ rule. *Npj Computational Materials*, **2019**, 5,	10.9	19
109	Microstructure Manipulation for Enhancing the Resistance of Garnet-Type Solid Electrolytes to "Short Circuit" by Li Metal Anodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 5928-5937	9.5	28
108	Polymer Nanocomposites: Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density (Adv. Energy Mater. 15/2019). *Advanced Energy Materials*, **2019**, 9, 1970047	21.8	1
107	One-Pot Synthesis of BiCuSO Nanosheets under Ambient Atmosphere as Broadband Spectrum Photocatalyst. *Nanomaterials*, **2019**, 9,	5.4	5
106	Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes. *Advanced Materials*, **2019**, 31, e1806082	24	169
105	Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density. *Advanced Energy Materials*, **2019**, 9, 1803411	21.8	84
104	Modulating interfacial charge distribution and compatibility boosts high energy density and discharge efficiency of polymer nanocomposites.. *RSC Advances*, **2019**, 9, 35990-35997	3.7	5
103	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
102	High Capacity and Superior Cyclic Performances of All-Solid-State Lithium Batteries Enabled by a Glass-Ceramics Solo. *ACS Applied Materials & Interfaces*, **2018**, 10, 10029-10035	9.5	31
101	Tunable photoelectric response in NiO-based heterostructures by various orientations. *Applied Physics Letters*, **2018**, 112, 093301	3.4	3
100	Polymer Nanocomposites with Ultrahigh Energy Density and High Discharge Efficiency by Modulating their Nanostructures in Three Dimensions. *Advanced Materials*, **2018**, 30, e1707269	24	157
99	High-Throughput Phase-Field Design of High-Energy-Density Polymer Nanocomposites. *Advanced Materials*, **2018**, 30, 1704380	24	171
98	Tunable pseudocapacitive contribution in nanosheet-constructed titania hierarchical tubes to achieve superior lithium-storage properties by phase control. *Journal of Materials Chemistry A*, **2018**, 6, 24298-24310	13	19
97	Synthesis and Broadband Spectra Photocatalytic Properties of Bi□□(CO□)□. *Materials*, **2018**, 11,	3.5	3
96	Self-Reconstructed Formation of a One-Dimensional Hierarchical Porous Nanostructure Assembled by Ultrathin TiO Nanobelts for Fast and Stable Lithium Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 19047-19058	9.5	25
95	Mechanical properties and biocompatibility of polymer infiltrated sodium aluminum silicate restorative composites. *Journal of Advanced Ceramics*, **2017**, 6, 73-79	10.7	11
94	Ultra-fast synthesis and high thermoelectric properties of heavy sodium doped BiCuSeO. *Journal of Alloys and Compounds*, **2017**, 708, 955-960	5.7	16

93	Phase-separation induced hollow/porous carbon nanofibers containing in situ generated ultrafine SnOx as anode materials for lithium-ion batteries. *Materials Chemistry Frontiers*, **2017**, 1, 1331-1337	7.8	22
92	Ultra-sensitive NEMS magnetoelectric sensor for picotesla DC magnetic field detection. *Applied Physics Letters*, **2017**, 110, 143510	3.4	60
91	Mechanical properties of polymer-infiltrated-ceramic (sodium aluminum silicate) composites for dental restoration. *Journal of Dentistry*, **2017**, 62, 91-97	4.8	18
90	Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrier□phonon coupling. *Energy and Environmental Science*, **2017**, 10, 1590-1599	25.4	94
89	Thermoelectric Properties of Cl-Doped BiCuSeO Oxyselenides. *Journal of Electronic Materials*, **2017**, 46, 2593-2598	1.9	10
88	Space charge effects on the dielectric response of polymer nanocomposites. *Applied Physics Letters* , **2017**, 111, 092901	3.4	22
87	Synergistic Coupling between LiLaZrTaO and Poly(vinylidene fluoride) Induces High Ionic Conductivity, Mechanical Strength, and Thermal Stability of Solid Composite Electrolytes. *Journal of the American Chemical Society*, **2017**, 139, 13779-13785	16.4	452
86	Garnet-type oxide electrolyte with novel porous-dense bilayer configuration for rechargeable all-solid-state lithium batteries. *Ionics*, **2017**, 23, 2521-2527	2.7	38
85	High-temperature electrical and thermal transport behaviors in layered structure WSe2. *Journal of the American Ceramic Society*, **2017**, 100, 5528-5535	3.8	5
84	High Capacity, Superior Cyclic Performances in All-Solid-State Lithium-Ion Batteries Based on 78LiS-22PS Glass-Ceramic Electrolytes Prepared via Simple Heat Treatment. *ACS Applied Materials & Interfaces*, **2017**, 9, 28542-28548	9.5	36
83	Tuning Phase Composition of Polymer Nanocomposites toward High Energy Density and High Discharge Efficiency by Nonequilibrium Processing. *ACS Applied Materials & Interfaces*, **2017**, 9, 29717-29731	9.5	63
82	Highly (001)-Textured Tetragonal BiFeO Film and Its Photoelectrochemical Behaviors Tuned by Magnetic Field. *ACS Applied Materials & Interfaces*, **2017**, 9, 30127-30132	9.5	6
81	High thermoelectric performance of Bi1□ K x CuSeO prepared by combustion synthesis. *Journal of Materials Science*, **2017**, 52, 11569-11579	4.3	6
80	Dielectric and energy storage performances of polyimide/BaTiO3 nanocomposites at elevated temperatures. *Journal of Applied Physics*, **2017**, 121, 244101	2.5	63
79	Highly Sensitive DC Magnetic Field Sensor Based on Nonlinear ME Effect **2017**, 1, 1-4		36
78	Giant Energy Density and Improved Discharge Efficiency of Solution-Processed Polymer Nanocomposites for Dielectric Energy Storage. *Advanced Materials*, **2016**, 28, 2055-61	24	432
77	Controlled functionalization of poly(4-methyl-1-pentene) films for high energy storage applications. *Journal of Materials Chemistry A*, **2016**, 4, 4797-4807	13	50
76	In Vitro Cell Proliferation and Mechanical Behaviors Observed in Porous Zirconia Ceramics. *Materials*, **2016**, 9,	3.5	6

75	The Effects of Spark-Plasma Sintering (SPS) on the Microstructure and Mechanical Properties of BaTiO□3Y-TZP Composites. *Materials*, **2016**, 9,	3.5	6
74	Photoelectrochemical Performance Observed in Mn-Doped BiFeO□Heterostructured Thin Films. *Nanomaterials*, **2016**, 6,	5.4	22
73	Nanocomposite Membranes Enhance Bone Regeneration Through Restoring Physiological Electric Microenvironment. *ACS Nano*, **2016**, 10, 7279-86	16.7	139
72	Enhanced Thermoelectricity in High-Temperature □Phase Copper(I) Selenides Embedded with Cu2Te Nanoclusters. *ACS Applied Materials & Interfaces*, **2016**, 8, 15196-204	9.5	30
71	High energy density of polymer nanocomposites at a low electric field induced by modulation of their topological-structure. *Journal of Materials Chemistry A*, **2016**, 4, 8359-8365	13	120
70	Thermoelectric transport properties of BiCuSeO with embedded La0.8Sr0.2CoO3 nanoinclusions. *Science China Technological Sciences*, **2016**, 59, 1036-1041	3.5	7
69	Enhanced thermoelectric performance of La-doped BiCuSeO by tuning band structure. *Applied Physics Letters*, **2015**, 106, 233903	3.4	71
68	Electrical and Thermal Transport Behavior in Zn-Doped BiCuSeO Oxyselenides. *Journal of Electronic Materials*, **2015**, 44, 1627-1631	1.9	32
67	Enhancement of the thermoelectric properties of MnSb2Se4 through Cu resonant doping. *RSC Advances*, **2015**, 5, 99065-99073	3.7	5
66	Enhanced thermoelectric properties in Pb-doped BiCuSeO oxyselenides prepared by ultrafast synthesis. *RSC Advances*, **2015**, 5, 69878-69885	3.7	54
65	Lattice vibration modes of the layered material BiCuSeO and first principles study of its thermoelectric properties. *New Journal of Physics*, **2015**, 17, 083012	2.9	45
64	Polymer nanocomposites with high energy storage densities. *MRS Bulletin*, **2015**, 40, 753-759	3.2	85
63	Study of lattice vibration and thermal conductivity of BiCuSeO from first-principles calculations. *Materials Research Society Symposia Proceedings*, **2015**, 1735, 110		
62	Tunable magnetic and electrical behaviors in perovskite oxides by oxygen octahedral tilting. *Science China Materials*, **2015**, 58, 302-312	7.1	22
61	Large d33 and enhanced ferroelectric/dielectric properties of poly(vinylidene fluoride)-based composites filled with Pb(Zr0.52Ti0.48)O3 nanofibers. *RSC Advances*, **2015**, 5, 51302-51307	3.7	29
60	Enhancement of Thermoelectric Performance in Hierarchical Mesoscopic Oxide Composites of Ca3Co4O9 and La0.8Sr0.2CoO3. *Journal of the American Ceramic Society*, **2015**, 98, 1230-1235	3.8	26
59	Topological-Structure Modulated Polymer Nanocomposites Exhibiting Highly Enhanced Dielectric Strength and Energy Density. *Advanced Functional Materials*, **2014**, 24, 3172-3178	15.6	304
58	Bandgap engineering and enhanced interface coupling of graphene□BiFeO3 nanocomposites as efficient photocatalysts under visible light. *Journal of Materials Chemistry A*, **2014**, 2, 1967-1973	13	74

57	BiCuSeO oxyselenides: new promising thermoelectric materials. *Energy and Environmental Science*, **2014**, 7, 2900-2924	35.4	416
56	High capacity and rate performance of LiNi0.5Co0.2Mn0.3O2 composite cathode for bulk-type all-solid-state lithium battery. *Journal of Materials Chemistry A*, **2014**, 2, 13332	13	23
55	Origin of enhanced magnetoelectric coupling in NiFe2O4/BaTiO3 multilayers studied by x-ray magnetic circular dichroism. *Physical Review B*, **2014**, 89,	3.3	18
54	Enhanced Thermoelectric Properties of BiCuSeO/Polyaniline Composites. *Journal of Electronic Materials*, **2014**, 43, 3695-3700	1.9	7
53	Enhancement of thermoelectric performance in Cd-doped Ca3Co4O9via spin entropy, defect chemistry and phonon scattering. *Journal of Materials Chemistry A*, **2014**, 2, 19479-19487	13	55
52	Enhanced thermoelectric performance of a BiCuSeO system via band gap tuning. *Chemical Communications*, **2013**, 49, 8075-7	5.8	98
51	Dielectric behavior of graphene/BaTiO3/polyvinylidene fluoride nanocomposite under high electric field. *Applied Physics Letters*, **2013**, 103, 072906	3.4	34
50	Largely enhanced energy density in flexible P(VDF-TrFE) nanocomposites by surface-modified electrospun BaSrTiO3 fibers. *Journal of Materials Chemistry A*, **2013**, 1, 1688-1693	13	135
49	Highly enhanced energy density induced by hetero-interface in sandwich-structured polymer nanocomposites. *Journal of Materials Chemistry A*, **2013**, 1, 12321	13	97
48	Significant enhancement in the visible light photocatalytic properties of BiFeO3–graphene nanohybrids. *Journal of Materials Chemistry A*, **2013**, 1, 823-829	13	124
47	Enhanced magnetoelectric coupling in Pb(Zr0.52Ti0.48)O3 film-on-CoFe2O4 bulk ceramic composite with LaNiO3 bottom electrode. *Journal of Materials Science*, **2013**, 48, 1021-1026	4.3	16
46	Evaluating the electro-optical effect in alternating current-voltage-modulated Kerr response for multiferroic heterostructures. *Journal of Applied Physics*, **2013**, 114, 204102	2.5	6
45	Enhanced thermoelectric properties of Pb-doped BiCuSeO ceramics. *Advanced Materials*, **2013**, 25, 5086-90	24	200
44	Doping for higher thermoelectric properties in p-type BiCuSeO oxyselenide. *Applied Physics Letters*, **2013**, 102, 123905	3.4	71
43	Thickness-dependent converse magnetoelectric coupling in bi-layered Ni/PZT thin films. *Journal of Applied Physics*, **2012**, 111, 033918	2.5	31
42	Thickness-dependent voltage-modulated magnetism in multiferroic heterostructures. *Applied Physics Letters*, **2012**, 100, 022405	3.4	59
41	Characterization of individual grain boundaries and grains of CaCu3Ti4O12 ceramic. *Science China Technological Sciences*, **2012**, 55, 879-882	3.5	4
40	Significant enhancement in energy density of polymer composites induced by dopamine-modified Ba0.6Sr0.4TiO3 nanofibers. *Applied Physics Letters*, **2012**, 101, 152904	3.4	125

39	Improving the dielectric constants and breakdown strength of polymer composites: effects of the shape of the BaTiO3 nanoinclusions, surface modification and polymer matrix. *Journal of Materials Chemistry*, **2012**, 22, 16491		301
38	Enhanced dielectric and ferroelectric properties induced by dopamine-modified BaTiO3 nanofibers in flexible poly(vinylidene fluoride-trifluoroethylene) nanocomposites. *Journal of Materials Chemistry*, **2012**, 22, 8063		256
37	Polycrystalline BiCuSeO oxide as a potential thermoelectric material. *Energy and Environmental Science*, **2012**, 5, 7188	35.4	203
36	Influence of La Doping on Magnetic and Optical Properties of Bismuth Ferrite Nanofibers. *Journal of Nanomaterials*, **2012**, 2012, 1-5	3.2	13
35	Influence of Stress and Orientation on Magnetoelectric Coupling of Pb(Zr,Ti)O3□CoFe2O4 Bilayer Films. *Journal of the American Ceramic Society*, **2011**, 94, 1060-1066	3.8	38
34	Preparation of CePO4-coated zirconia ceramics and their mechanical behavior. *Rare Metals*, **2011**, 30, 282-286	5.5	3
33	Cu segregation and its effects on the electrical properties of calcium copper titanate. *Science China Technological Sciences*, **2011**, 54, 2506-2510	3.5	13
32	Remarkable enhancement in thermoelectric performance of BiCuSeO by Cu deficiencies. *Journal of the American Chemical Society*, **2011**, 133, 20112-5	16.4	242
31	Switchable voltage control of the magnetic coercive field via magnetoelectric effect. *Journal of Applied Physics*, **2011**, 110, 043919	2.5	26
30	A magnetoelectric memory cell with coercivity state as writing data bit. *Applied Physics Letters*, **2010**, 96, 162505	3.4	43
29	Electric-field modulation of magnetic properties of Fe films directly grown on BiScO3□PbTiO3 ceramics. *Journal of Applied Physics*, **2010**, 107, 083901	2.5	20
28	Effect of Mn doping on electric and magnetic properties of BiFeO3 thin films by chemical solution deposition. *Journal of Applied Physics*, **2009**, 106, 063911	2.5	86
27	Magnetic-electric behaviors in BiFeO3 films grown on LaNiO3-buffered Si substrate. *Journal of Applied Physics*, **2009**, 106, 073917	2.5	9
26	Substrate Effect on the Magnetoelectric Behavior of Pb(Zr0.52Ti0.48)O3 Film-On-CoFe2O4 Bulk Ceramic Composites Prepared by Direct Solution Spin Coating. *Journal of the American Ceramic Society*, **2009**, 92, 2654-2660	3.8	29
25	Magnetoelectric coupling in BaTiO3/(NiFe2O4/BaTiO3)n (n=1,2,3,4) multilayered thin films. *Journal of Applied Physics*, **2009**, 105, 083915	2.5	19
24	Significant Improvement of Mechanical Properties Observed in Highly Aligned Carbon-Nanotube-Reinforced Nanofibers. *Journal of Physical Chemistry C*, **2009**, 113, 4779-4785	3.8	104
23	Influence of relative thickness on multiferroic properties of bilayered Pb(Zr0.52Ti0.48)O3□CoFe2O4 thin films. *Journal of Applied Physics*, **2008**, 104, 114114	2.5	40
22	Enhancement in magnetoelectric response in CoFe2O4□BaTiO3 heterostructure. *Applied Physics Letters*, **2008**, 92, 062911	3.4	110

21	Thickness dependent size effect of BiFeO3 films grown on LaNiO3-buffered Si substrates. *Journal of Applied Physics*, **2008**, 104, 123912	2.5	54
20	Magnetoelectric behavior of BaTiO3 films directly grown on CoFe2O4 ceramics. *Journal of Applied Physics*, **2008**, 104, 014101	2.5	35
19	Demonstration of magnetoelectric read head of multiferroic heterostructures. *Applied Physics Letters*, **2008**, 92, 152510	3.4	69
18	Thermoelectric properties of Bi3+ substituted Co-based misfit-layered oxides. *Journal of Electroceramics*, **2008**, 21, 748-751	1.5	44
17	Ferroelectric and Ferromagnetic Properties of Hot-Pressed Bi0.95□La0.05TbxFeO3 Ceramics. *Journal of the American Ceramic Society*, **2007**, 90, 1444-1447	3.8	16
16	Magnetic-electric properties of epitaxial multiferroic NiFe2O4□BaTiO3 heterostructure. *Journal of Applied Physics*, **2007**, 102, 074114	2.5	61
15	Magnetoelectric resonance behavior of simple bilayered Pb(Zr,Ti)O3□(Tb,Dy)Fe2□epoxy composites. *Journal of Applied Physics*, **2007**, 101, 043902	2.5	50
14	Preparation of Ca3Co4O9 and Improvement of its Thermoelectric Properties by Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2005**, 88, 1337-1340	3.8	159
13	Polarization of High-Permittivity Dielectric NiO-Based Ceramics. *Journal of the American Ceramic Society*, **2005**, 88, 1808-1811	3.8	33
12	Coupled magnetodielectric properties of laminated PbZr0.53Ti0.47O3/NiFe2O4 ceramics. *Journal of Applied Physics*, **2004**, 95, 5685-5690	2.5	122
11	Preparation of Nanometer Zinc Oxide Powders by Plasma Pyrolysis Technology and Their Applications. *Journal of the American Ceramic Society*, **2004**, 83, 2869-2871	3.8	13
10	Synthesis and Characterization of (Ce0.67Tb0.33)MnxMg1□Al11O19 Phosphors Derived by Sol□el Processing. *Journal of the American Ceramic Society*, **2004**, 85, 998-1000	3.8	4
9	Dielectric Behavior of Na0.5Bi0.5TiO3-Based Composites Incorporating Silver Particles. *Journal of the American Ceramic Society*, **2004**, 87, 742-745	3.8	25
8	Dependence of giant magnetoelectric effect on interfacial bonding for multiferroic laminated composites of rare-earth-iron alloys and lead□irconate□itanate. *Journal of Applied Physics*, **2004**, 95, 2660-2664	2.5	48
7	Large high-frequency magnetoelectric response in laminated composites of piezoelectric ceramics, rare-earth iron alloys and polymer. *Applied Physics Letters*, **2004**, 84, 3516-3518	3.4	102
6	Interface effect on thermal conductivity of carbon nanotube composites. *Applied Physics Letters*, **2004**, 85, 3549-3551	3.4	662
5	Influence of interfacial bonding on giant magnetoelectric response of multiferroic laminated composites of Tb1□DyxFe2 and PbZrxTi1□O3. *Applied Physics Letters*, **2003**, 83, 4366-4368	3.4	145
4	Anomalous luminescence in Sr4Al14O25:Eu, Dy phosphors. *Applied Physics Letters*, **2002**, 81, 996-998	3.4	155

3	Magnetoelectricity of Multiferroic Composites. *Ferroelectrics*, **2002**, 280, 153-163	0.6	26
2	Magnetoelectricity of Multiferroic Composites		4
1	Super Long-Cycling All-Solid-State Battery with Thin Li 6 PS 5 Cl-Based Electrolyte. *Advanced Energy Materials*,2200660	21.8	15