

Lin Zhang

List of Publications by Year in descending order

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91
papers

5,144
citations

94433

37
h-index

88630

70
g-index

91
all docs

91
docs citations

91
times ranked

5111
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase evolution and relaxor to ferroelectric phase transition boosting ultrahigh electrostrains in $(1-x)(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3-x(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ solid solutions. <i>Journal of Materiomics</i> , 2022, 8, 335-346.	5.7	39
2	Enhanced energy storage performance of polymer nanocomposites using hybrid 2D ZnO@MoS ₂ semiconductive nano-fillers. <i>Chemical Engineering Journal</i> , 2022, 430, 132676.	12.7	40
3	Ultrahigh electrostrictive effect in potassium sodium niobate-based lead-free ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 944-953.	5.7	37
4	Formation mechanism of barium titanate single crystalline microplates based on topochemical transformation using bismuth-based precursors. <i>Ceramics International</i> , 2021, 47, 4543-4550.	4.8	2
5	Thermal stability of dielectric and energy storage performances of Ca-substituted BNTZ ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 6298-6309.	4.8	33
6	Enhanced dielectric, ferroelectric, and optical properties in rare earth elements doped PMN-PT thin films. <i>Journal of Advanced Ceramics</i> , 2021, 10, 98-107.	17.4	26
7	Recent progress in carbon-based materials for supercapacitor electrodes: a review. <i>Journal of Materials Science</i> , 2021, 56, 173-200.	3.7	474
8	Recent Progress on Nanocellulose Aerogels: Preparation, Modification, Composite Fabrication, Applications. <i>Advanced Materials</i> , 2021, 33, e2005569.	21.0	311
9	Polymer Dielectrics with Simultaneous Ultrahigh Energy Density and Low Loss. <i>Advanced Materials</i> , 2021, 33, e2008198.	21.0	85
10	Effects of particle size of dielectric fillers on the output performance of piezoelectric and triboelectric nanogenerators. <i>Journal of Advanced Ceramics</i> , 2021, 10, 991-1000.	17.4	27
11	Porous aerogel and sponge composites: Assisted by novel nanomaterials for electromagnetic interference shielding. <i>Nano Today</i> , 2021, 38, 101204.	11.9	142
12	Crystallization behaviors and related dielectric properties of semicrystalline matrix in polymer-ceramic nanocomposites. <i>Composites Part B: Engineering</i> , 2021, 224, 109195.	12.0	35
13	Filler size effects on the microstructure and properties of polymer-ceramic nanocomposites using a semicrystalline matrix. <i>Journal of Materials Science</i> , 2021, 56, 19983-19995.	3.7	22
14	Improving the Energy Density and Efficiency of the Linear Polymer PMMA with a Double-Bond Fluoropolymer at Elevated Temperatures. <i>ACS Omega</i> , 2021, 6, 35014-35022.	3.5	6
15	Significantly enhanced energy storage performance of flexible composites using sodium bismuth titanate based lead-free fillers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14910-14918.	5.5	26
16	Decoding of facial strains via conformable piezoelectric interfaces. <i>Nature Biomedical Engineering</i> , 2020, 4, 954-972.	22.5	54
17	A high-temperature dielectric polymer poly(acrylonitrile butadiene styrene) with enhanced energy density and efficiency due to a cyano group. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15122-15129.	10.3	43
18	Wood-Inspired Anisotropic Cellulose Nanofibril Composite Sponges for Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35513-35522.	8.0	148

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19	Flexible composites with Ce-doped BaTiO ₃ /P(VDF-TrFE) nanofibers for piezoelectric device. <i>Composites Science and Technology</i> , 2020, 200, 108386.	7.8	26
20	Novel multi-layer-composites design for ultrasonic transducer applications. <i>Composite Structures</i> , 2020, 245, 112364.	5.8	19
21	Enhanced piezoelectric and acoustic performances of poly(vinylidene fluoride-trifluoroethylene) films for hydroacoustic applications. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5711-5722.	2.8	27
22	High energy density with ultrahigh discharging efficiency obtained in ceramic-polymer nanocomposites using a non-ferroelectric polar polymer as matrix. <i>Nano Energy</i> , 2020, 70, 104551.	16.0	70
23	High frequency needle ultrasonic transducers based on Mn doped piezoelectric single crystal. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154951.	5.5	17
24	Preparation and energy storage performance of transparent dielectric films with two-dimensional platelets. <i>Composites Science and Technology</i> , 2019, 182, 107759.	7.8	39
25	Dielectric property and ac conductivity of P(VDF-CTFE)-PLZST polymer-ceramic composite films. <i>Ceramics International</i> , 2019, 45, 8979-8987.	4.8	25
26	Characterizations of P(VDF-HFP)-BaTiO ₃ nanocomposite films fabricated by a spin-coating process. <i>Ceramics International</i> , 2019, 45, 17758-17766.	4.8	34
27	High thermal stability of electric field-induced strain in (1-x)(Bi _{0.5} Na _{0.5})TiO ₃ -xBa _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ lead-free ferroelectrics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 277-286.	5.7	56
28	High electric field-induced strain with ultra-low hysteresis and giant electrostrictive coefficient in barium strontium titanate lead-free ferroelectrics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 295-304.	5.7	80
29	BST-P(VDF-CTFE) nanocomposite films with high dielectric constant, low dielectric loss, and high energy-storage density. <i>Composites Part B: Engineering</i> , 2019, 168, 34-43.	12.0	94
30	Ultra-low hysteresis electric field-induced strain with high electrostrictive coefficient in lead-free Ba(Zr Ti _{1-x})O ₃ ferroelectrics. <i>Journal of Alloys and Compounds</i> , 2019, 784, 931-938.	5.5	26
31	High electrostrictive effect in La ³⁺ -doped Ba(Zr _{0.2} Ti _{0.8})O ₃ lead-free ferroelectrics. <i>Journal of Alloys and Compounds</i> , 2019, 776, 599-605.	5.5	35
32	High dielectric permittivity and electrostrictive strain in a wide temperature range in relaxor ferroelectric (1-x)[Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃]-xBa(Zn _{1/3} Nb _{2/3})O ₃ solid solutions. <i>Ceramics International</i> , 2019, 45, 5518-5524.	4.8	24
33	Polymer-Based Nanocomposites with High Dielectric Permittivity. , 2019, , 201-243.		12
34	Dielectric and energy-storage performance of Ba _{0.5} Sr _{0.5} TiO ₃ -SiO ₂ ceramic-glass composites. <i>Journal of Alloys and Compounds</i> , 2018, 745, 127-134.	5.5	44
35	Recent progress on nanostructured conducting polymers and composites: synthesis, application and future aspects. <i>Science China Materials</i> , 2018, 61, 303-352.	6.3	184
36	Click chemistry in polymeric scaffolds: Bioactive materials for tissue engineering. <i>Journal of Controlled Release</i> , 2018, 273, 160-179.	9.9	172

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37	Structure evolution and exceptionally ultra-low hysteresis unipolar electric field-induced strain in $(1-x)\text{NaNbO}_3\text{-}x\text{BaTiO}_3$ lead-free ferroelectrics. <i>Ceramics International</i> , 2018, 44, 5492-5499.	4.8	65
38	Influence of silane coupling agent on microstructure and properties of CCTO-P(VDF-CTFE) composites. <i>Journal of Advanced Dielectrics</i> , 2018, 08, 1850008.	2.4	21
39	Ultra-low hysteresis electrostrictive strain with high thermal stability in $\text{Bi}(\text{Li}_{0.5}\text{Nb}_{0.5})\text{O}_3$ -modified BaTiO_3 lead-free ferroelectrics. <i>Journal of Alloys and Compounds</i> , 2018, 753, 558-565.	5.5	29
40	Origin of composition-insensitive electrostrictive coefficient and continuous decrease of domain wall density in $(1-x)\text{NaNbO}_3\text{-}x\text{BaTiO}_3$ lead-free ferroelectrics. <i>Journal of the European Ceramic Society</i> , 2018, 38, 3127-3135.	5.7	40
41	Stretchable ultrasonic transducer arrays for three-dimensional imaging on complex surfaces. <i>Science Advances</i> , 2018, 4, eaar3979.	10.3	204
42	High dielectric tunability in composites prepared using SiO_2 coated $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ nanoparticles. <i>Ceramics International</i> , 2018, 44, 9875-9879.	4.8	22
43	Enhancement of Biodegradable Poly(Ethylene Oxide) Ionic "Polymer Metallic Composite Actuators with Nanocrystalline Cellulose Fillers. <i>Actuators</i> , 2018, 7, 72.	2.3	16
44	Monitoring of the central blood pressure waveform via a conformal ultrasonic device. <i>Nature Biomedical Engineering</i> , 2018, 2, 687-695.	22.5	520
45	Effects of CuO additive on the dielectric property and energy-storage performance of $\text{BaTiO}_3\text{-SiO}_2$ ceramic-glass composite. <i>Ceramics International</i> , 2018, 44, 16977-16983.	4.8	31
46	A strategy for obtaining high electrostrictive properties and its application in barium stannate titanate lead-free ferroelectrics. <i>Ceramics International</i> , 2018, 44, 21816-21824.	4.8	45
47	All-organic dielectric nanocomposites using conducting polypyrrole nanoclips as filler. <i>Composites Science and Technology</i> , 2018, 167, 285-293.	7.8	51
48	Microwave energy-based manufacturing of hollow carbon nanospheres decorated with carbon nanotubes or metal oxide nanowires. <i>Journal of Materials Science</i> , 2018, 53, 12178-12189.	3.7	7
49	Synthesis and Photoluminescence Properties of Tb^{3+} Doped ZrO_2 Hollow Spheres. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3233-3237.	0.9	4
50	Phonon band structures of the three dimensional latticed pentamode metamaterials. <i>AIP Advances</i> , 2017, 7, .	1.3	7
51	Fabrication of three-dimensional micro-nanofiber structures by a novel solution blow spinning device. <i>AIP Advances</i> , 2017, 7, .	1.3	4
52	Dielectric Behavior of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ "Polyethylene Composites with a Low Dielectric Loss. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2017, 41, 7-16.	1.5	5
53	Time-dependence of the electromechanical bending actuation observed in ionic-electroactive polymers. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1720002.	2.4	8
54	Piezoelectric-excited membrane for liquids viscosity and mass density measurement. <i>Sensors and Actuators A: Physical</i> , 2017, 261, 196-201.	4.1	27

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55	Flexible hdC-G reinforced polyimide composites with high dielectric permittivity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 101, 50-58.	7.6	98
56	Effect of coupling agents on the dielectric properties and energy storage of Ba _{0.5} Sr _{0.5} TiO ₃ /P(VDF-CTFE) nanocomposites. <i>AIP Advances</i> , 2017, 7, 075210.	1.3	20
57	Dielectric response and percolation behavior of Ni@P(VDF-TrFE) nanocomposites. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1750015.	2.4	10
58	Angle-insensitive acoustic metamaterial plane with extraordinary transmission using two embedded and coaxial split spherical shells. <i>Applied Physics Express</i> , 2017, 10, 104001.	2.4	2
59	Effects of Annealing on the Structure and Magnetic Properties of Fe ₈₀ B ₂₀ Magnetostrictive Fibers. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, 56-61.	1.6	2
60	Ultrafast Microwave Nano-manufacturing of Fullerene-Like Metal Chalcogenides. <i>Scientific Reports</i> , 2016, 6, 22503.	3.3	28
61	Process and Microstructure to Achieve Ultra-high Dielectric Constant in Ceramic-Polymer Composites. <i>Scientific Reports</i> , 2016, 6, 35763.	3.3	81
62	Nano-clip based composites with a low percolation threshold and high dielectric constant. <i>Nano Energy</i> , 2016, 26, 550-557.	16.0	98
63	Synergistic effects in 3D honeycomb-like hematite nanoflakes/branched polypyrrole nanoleaves heterostructures as high-performance negative electrodes for asymmetric supercapacitors. <i>Nano Energy</i> , 2016, 22, 189-201.	16.0	102
64	Controlled functionalization of poly(4-methyl-1-pentene) films for high energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4797-4807.	10.3	58
65	Physical aspects of 0-3 dielectric composites. <i>Journal of Advanced Dielectrics</i> , 2015, 05, 1550012.	2.4	27
66	Mass Load Distribution Dependence of Mass Sensitivity of Magnetoelastic Sensors under Different Resonance Modes. <i>Sensors</i> , 2015, 15, 20267-20278.	3.8	14
67	Ultrafast Microwave Welding/Reinforcing Approach at the Interface of Thermoplastic Materials. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22469-22477.	8.0	55
68	Microstructure and dielectric response of BaSrTiO ₃ /P(VDF-CTFE) nanocomposites. <i>Materials Letters</i> , 2015, 159, 72-75.	2.6	24
69	Modeling of the time-dependent strain response of electroactive NCC-PEO and PVDF composites. , .		0
70	Microstructure effect on dielectric Properties of MgO-doped BaTiO ₃ @BiYO ₃ ceramics. <i>Ceramics International</i> , 2015, 41, 7489-7495.	4.8	24
71	A Case Study of Conductor-Dielectric 0@3 Composites Using Ni-P(VDF-CTFE) Nanocomposites. <i>Journal of Advanced Physics</i> , 2015, 4, 362-369.	0.4	7
72	Characterization of percolation behavior in conductor@dielectric 0-3 composites. <i>Journal of Advanced Dielectrics</i> , 2014, 04, 1450035.	2.4	11

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73	Revisiting the percolation phenomena in dielectric composites with conducting fillers. Applied Physics Letters, 2014, 105, .	3.3	40
74	Magnetostrictive particle based biosensors for in situ and real-time detection of pathogens in water. Biotechnology and Bioengineering, 2014, 111, 2229-2238.	3.3	18
75	Electromechanical response of NCC-PEO composites. , 2014, , .		0
76	Preparation process and dielectric properties of Ba _{0.5} Sr _{0.5} TiO ₃ â€P(VDFâ€CTFE) nanocomposites. Composites Part B: Engineering, 2014, 56, 284-289.	12.0	97
77	An ultrafast microwave approach towards multi-component and multi-dimensional nanomaterials. RSC Advances, 2014, 4, 9308.	3.6	38
78	Ultrafast Cr(vi) removal from polluted water by microwave synthesized iron oxide submicron wires. Chemical Communications, 2014, 50, 8036.	4.1	34
79	Magnetostrictive resonators as sensors and actuators. Sensors and Actuators A: Physical, 2013, 200, 2-10.	4.1	71
80	Metal-polymer nanocomposites with high percolation threshold and high dielectric constant. Applied Physics Letters, 2013, 103, 232903.	3.3	67
81	Fabrication of carbon nanotubes grown woven carbon fiber/epoxy composites and their electrical and mechanical properties. Journal of Applied Physics, 2013, 113, .	2.5	22
82	Conducting Polymer - Metal Nanocomposites Synthesis and Their Sensory Applications. Current Organic Chemistry, 2013, 17, 2256-2267.	1.6	39
83	Dielectric composites with a high and temperature-independent dielectric constant. Journal of Advanced Ceramics, 2012, 1, 310-316.	17.4	49
84	Controlled synthesis of transition metal/conducting polymer nanocomposites. Nanotechnology, 2012, 23, 335603.	2.6	29
85	Dielectric characteristics of CaCu ₃ Ti ₄ O ₁₂ /P(VDF-TrFE) nanocomposites. Applied Physics A: Materials Science and Processing, 2012, 107, 597-602.	2.3	94
86	DEVELOPMENT OF POLYMER-BASED 0â€3 COMPOSITES WITH HIGH DIELECTRIC CONSTANT. Journal of Advanced Dielectrics, 2011, 01, 389-406.	2.4	140
87	Influence of Process Condition on the Dielectric Properties of CCTO-P(VDF-TrFE) 0-3 Composites. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	2
88	Microstructure and Dielectric Properties of CCTO-P(VDF-TrFE) Nanocomposites. Ferroelectrics, 2010, 405, 92-97.	0.6	17
89	Preparation and characterization of high T _c (1â€x) BiScO ₃ â€xPbTiO ₃ ceramics from high energy ball milling process. Journal of Electroceramics, 2008, 21, 605-608.	2.0	26
90	Synthesis, sintering and characterization of PNZST ceramics from high-energy ball milling process. Ceramics International, 2008, 34, 709-713.	4.8	27

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91	Synthesis of BF ₄ ⁻ PT perovskite powders by high-energy ball milling. Materials Letters, 2007, 61, 1130-1133.	2.6	33