

Di Wu

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.

81
papers

3,927
citations

29
h-index

62
g-index

84
ext. papers

4,999
ext. citations

9.9
avg, IF

5.63
L-index

#	Paper	IF	Citations
81	Enhanced energy storage properties and superior thermal stability in SNN-based tungsten bronze ceramics through substitution strategy. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 2781-2781	6	2
80	Improved grain boundary resistance inducing decreased dielectric loss and colossal permittivity in Y2/3Cu3Ti4O12 ceramics. <i>Materials Chemistry and Physics</i> , 2022 , 283, 125874	4.4	0
79	Enhanced thermoelectric performance of n-type (PbSe) _n (Sb ₂ Te ₃) pseudo-binary via Zn filling and Ag ₂ Se compositing. <i>Journal of Alloys and Compounds</i> , 2022 , 907, 164416	5.7	1
78	Relaxor nature and superior energy storage performance of Sr ₂ Ag _{0.2} Na _{0.8} Nb ₅ O ₁₅ -based tungsten bronze ceramics through B-site substitution. <i>Chemical Engineering Journal</i> , 2021 , 133812	14.7	4
77	Enhanced Thermoelectric Performance Achieved in SnTe via the Synergy of Valence Band Regulation and Fermi Level Modulation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50037-50045	9.5	0
76	Strained Endotaxial PbS Nanoprecipitates Boosting Ultrahigh Thermoelectric Quality Factor in n-Type PbTe As-Cast Ingots. <i>Small</i> , 2021 , e2104496	11	7
75	High energy storage and colossal permittivity CdCu ₃ Ti ₄ O ₁₂ oxide ceramics. <i>Ceramics International</i> , 2021 , 48, 4255-4255	5.1	1
74	High energy storage density realized in Bi _{0.5} Na _{0.5} TiO ₃ -based relaxor ferroelectric ceramics at ultralow sintering temperature. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 368-375	6	16
73	Ag ⁺ /W ⁶⁺ co-doped TiO ₂ ceramic with colossal permittivity and low loss. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 157350	5.7	11
72	Colossal dielectric response in CdAl ₂ Cu ₃ Ti ₄ O ₁₂ perovskite ceramics. <i>Materials Chemistry and Physics</i> , 2021 , 258, 123940	4.4	6
71	A novel multifunctional ceramic with photoluminescence and outstanding energy storage properties. <i>Chemical Engineering Journal</i> , 2021 , 408, 127368	14.7	33
70	Coherent Sb/CuTe Core/Shell Nanostructure with Large Strain Contrast Boosting the Thermoelectric Performance of n-Type PbTe. <i>Advanced Functional Materials</i> , 2021 , 31, 2007340	15.6	17
69	Good dielectric performance and broadband dielectric polarization in Ag, Nb co-doped TiO ₂ . <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2702-2710	3.8	7
68	Electrical conduction behavior in nonstoichiometric BaBixNb ₅ O ₁₅ tungsten bronze ceramics. <i>Ceramics International</i> , 2021 , 47, 22382-22389	5.1	3
67	High energy and power density achieved in Bi _{0.5} Na _{0.5} TiO ₃ -based relaxor ferroelectric ceramics with excellent thermal stability. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 160005	5.7	2
66	Enhanced thermoelectric performance in GeTe-Sb ₂ Te ₃ pseudo-binary via lattice symmetry regulation and microstructure stabilization. <i>Materials Today Physics</i> , 2021 , 21, 100507	8	5
65	Ultra-low lattice thermal conductivity and enhanced thermoelectric performance in Ag ₂ Se _{1/3} S _{1/3} Te _{1/3} via anion permutation and cation modulation. <i>Journal of Alloys and Compounds</i> , 2021 , 885, 161378	5.7	1

64	Synergy of Valence Band Modulation and Grain Boundary Engineering Leading to Improved Thermoelectric Performance in SnTe. <i>ACS Applied Energy Materials</i> , 2021 , 4, 14608-14617	6.1	3
63	Constructing van der Waals gaps in cubic-structured SnTe-based thermoelectric materials. <i>Energy and Environmental Science</i> , 2020 , 13, 5135-5142	35.4	21
62	Regulation of energy density and efficiency in transparent ceramics by grain refinement. <i>Chemical Engineering Journal</i> , 2020 , 390, 124566	14.7	79
61	Ultrahigh storage density achieved with (1-x)KNN-xBZN ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2936-2944	6	26
60	Superior comprehensive energy storage properties in Bi _{0.5} Na _{0.5} TiO ₃ -based relaxor ferroelectric ceramics. <i>Chemical Engineering Journal</i> , 2020 , 388, 124158	14.7	123
59	A compromise between piezoelectricity and transparency in KNN-based ceramics: The dual functions of Li ₂ O addition. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2331-2337	6	14
58	Realizing Improved Thermoelectric Performance in BiI ₃ -Doped Sb ₂ Te ₃ (GeTe) ₁₇ via Introducing Dual Vacancy Defects. <i>Chemistry of Materials</i> , 2020 , 32, 1693-1701	9.6	17
57	Grain boundary engineering that induces ultrahigh permittivity and decreased dielectric loss in CdCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1230-1240	3.8	24
56	Eutectoid nano-precipitates inducing remarkably enhanced thermoelectric performance in (Sn _{1-x} Cd _x Te) _{1-y} (Cu ₂ Te) _y . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2798-2808	13	28
55	Controllable synthesis of (Ba _{0.85} Ca _{0.15})(Zr _{0.1} Ti _{0.9})O ₃ submicron sphere by hydroxide co-precipitation method. <i>Ceramics International</i> , 2020 , 46, 28285-28291	5.1	3
54	Understanding the ultrahigh dielectric permittivity response in titanium dioxide ceramics. <i>Ceramics International</i> , 2020 , 46, 2545-2551	5.1	4
53	Enhanced thermoelectric properties in chimney ladder structured Mn(B _x Si _{1-x}) _{1.75} due to the dual lattice occupation of boron. <i>Applied Physics Letters</i> , 2019 , 115, 123902	3.4	1
52	High-efficiency synthesis of high-performance K _{0.5} Na _{0.5} NbO ₃ ceramics. <i>Powder Technology</i> , 2019 , 346, 248-255	5.2	12
51	Evaluation of birefringence contribution to transparency in (1-x)KNN-xSr(Al _{0.5} Ta _{0.5})O ₃ ceramics: A phase structure tailoring. <i>Journal of Alloys and Compounds</i> , 2019 , 798, 669-677	5.7	9
50	Excellent optical transparency of potassium-sodium niobate-based lead-free relaxor ceramics induced by fine grains. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3684-3692	6	14
49	Low-temperature synthesis of CdCu ₃ Ti ₄ O ₁₂ powders with high dielectric permittivities. <i>Ceramics International</i> , 2019 , 45, 11899-11904	5.1	2
48	High Thermoelectric Performance Achieved in GeTe _{1-x} Bi _{2x} Te ₃ Pseudo-Binary via Van der Waals Gap-Induced Hierarchical Ferroelectric Domain Structure. <i>Advanced Functional Materials</i> , 2019 , 29, 1806613	15.6	68
47	Dislocation Evolution and Migration at Grain Boundaries in Thermoelectric SnTe. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2392-2397	6.1	13

46	Bi _{0.5} Na _{0.5} TiO ₃ -based relaxor ferroelectric ceramic with large energy density and high efficiency under a moderate electric field. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10514-10520	7.1	81
45	Temperature stability and low dielectric loss of lithium-doped CdCu ₃ Ti ₄ O ₁₂ ceramics for X9R capacitor applications. <i>Ceramics International</i> , 2019 , 45, 22991-22997	5.1	17
44	Realizing high figure of merit plateau in Ge Bi Te via enhanced Bi solution and Ge precipitation. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 831-839	5.7	15
43	Enhanced energy density and thermal stability in relaxor ferroelectric Bi _{0.5} Na _{0.5} TiO ₃ -Sr _{0.7} Bi _{0.2} TiO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4778-4784	6	89
42	Direct atomic-scale observation of the Ag ⁺ diffusion structure in the quasi-2D "liquid-like" state of superionic thermoelectric AgCrSe ₂ . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9263-9269	7.1	9
41	Step-Up Thermoelectric Performance Realized in Bi ₂ Te ₃ Alloyed GeTe via Carrier Concentration and Microstructure Modulations. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1616-1622	6.1	20
40	Simultaneous realization of broad temperature stability range and outstanding dielectric performance in (Ag ⁺ , Ta ⁵⁺) co-doped TiO ₂ ceramics. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 423-427	5.7	17
39	Relaxor behaviors and electric response in transparent 0.95(K _{0.5} Na _{0.5} NbO ₃)-0.05Ca(Zr _{1-x} Nb _x) _{1.025} O ₃ ceramics with low-symmetry structure. <i>Ceramics International</i> , 2019 , 45, 3961-3968	5.1	9
38	Simultaneous realization of high transparency and piezoelectricity in low symmetry KNN-based ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3498-3509	3.8	15
37	Effects of preparation method on the microstructure and electrical properties of tungsten bronze structure Sr ₂ NaNb ₅ O ₁₅ ceramics. <i>Ceramics International</i> , 2019 , 45, 558-565	5.1	7
36	Excellent thermoelectric performance achieved over broad temperature plateau in indium-doped SnTe-AgSbTe ₂ alloys. <i>Applied Physics Letters</i> , 2018 , 112, 063902	3.4	11
35	Liquid-like thermal conduction in intercalated layered crystalline solids. <i>Nature Materials</i> , 2018 , 17, 226-230	7.3	92
34	Influence of Bi nonstoichiometry on the energy storage properties of 0.93KNN _{0.07} Bi _x MN relaxor ferroelectrics. <i>Journal of Advanced Dielectrics</i> , 2018 , 08, 1830006	1.3	12
33	Boosting the Thermoelectric Performance of Pseudo-Layered SbTe(GeTe) via Vacancy Engineering. <i>Advanced Science</i> , 2018 , 5, 1801514	13.6	66
32	Enhanced thermoelectric performance realized in AgBiS ₂ composited AgBiSe ₂ through indium doping and mechanical alloying. <i>Applied Physics Letters</i> , 2018 , 112, 213905	3.4	7
31	Excellent near-infrared transparency realized in low-symmetry orthorhombic (K,Na)NbO ₃ -based submicron ceramics. <i>Scripta Materialia</i> , 2018 , 154, 64-67	5.6	9
30	Simultaneous optimization of electrical and thermal transport properties of Bi _{0.5} Sb _{1.5} Te ₃ thermoelectric alloy by twin boundary engineering. <i>Nano Energy</i> , 2017 , 37, 203-213	17.1	115
29	Direct observation of vast off-stoichiometric defects in single crystalline SnSe. <i>Nano Energy</i> , 2017 , 35, 321-330	17.1	80

28	Extraordinary Thermoelectric Performance Realized in n-Type PbTe through Multiphase Nanostructure Engineering. <i>Advanced Materials</i> , 2017 , 29, 1703148	24	150
27	Unexpected Large Hole Effective Masses in SnSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2017 , 119, 116401	7.4	37
26	Large enhancement of thermoelectric properties in n-type PbTe via dual-site point defects. <i>Energy and Environmental Science</i> , 2017 , 10, 2030-2040	35.4	131
25	Revisiting AgCrSe ₂ as a promising thermoelectric material. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23872-8	3.6	32
24	Extremely Low Thermal Conductivity in Thermoelectric Ge _{0.55} Pb _{0.45} Te Solid Solutions via Se Substitution. <i>Chemistry of Materials</i> , 2016 , 28, 6367-6373	9.6	39
23	Origin of low thermal conductivity in SnSe. <i>Physical Review B</i> , 2016 , 94,	3.3	176
22	Enhanced thermoelectric properties of SnSe polycrystals via texture control. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31821-31827	3.6	43
21	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. <i>Advanced Materials</i> , 2016 , 28, 2737-43	24	43
20	Evolution of microstructure and lattice thermal conductivity in Na doped PbTePbS pseudo-binary system. <i>Journal of Materials</i> , 2016 , 2, 150-157	6.7	4
19	Enhanced Thermoelectric Properties in the Counter-Doped SnTe System with Strained Endotaxial SrTe. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2366-73	16.4	213
18	Low-cost, abundant binary sulfides as promising thermoelectric materials. <i>Materials Today</i> , 2016 , 19, 227-239	21.8	196
17	Investigation into the extremely low thermal conductivity in Ba heavily doped BiCuSeO. <i>Nano Energy</i> , 2016 , 27, 167-174	17.1	29
16	Advanced electron microscopy for thermoelectric materials. <i>Nano Energy</i> , 2015 , 13, 626-650	17.1	67
15	Impact of yttria stabilized zirconia nano-inclusions on the thermal conductivity of n-type Si ₈₀ Ge ₂₀ alloys prepared by spark plasma sintering. <i>Journal of Applied Physics</i> , 2015 , 117, 145101	2.5	2
14	Synergistically optimized electrical and thermal transport properties of SnTe via alloying high-solubility MnTe. <i>Energy and Environmental Science</i> , 2015 , 8, 3298-3312	35.4	209
13	Superior thermoelectric performance in PbTePbS pseudo-binary: extremely low thermal conductivity and modulated carrier concentration. <i>Energy and Environmental Science</i> , 2015 , 8, 2056-2068	35.4	157
12	Origin of the high performance in GeTe-based thermoelectric materials upon Bi ₂ Te ₃ doping. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11412-9	16.4	259
11	Broad temperature plateau for thermoelectric figure of merit ZT>2 in phase-separated PbTe _{0.7} Sn _{0.3} . <i>Nature Communications</i> , 2014 , 5, 4515	17.4	373

10	High thermoelectric performance realized in a BiCuSeO system by improving carrier mobility through 3D modulation doping. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13902-8	16.4	253
9	Significantly Enhanced Thermoelectric Performance in n-type Heterogeneous BiAgSeS Composites. <i>Advanced Functional Materials</i> , 2014 , 24, 7763-7771	15.6	74
8	Effective scattering cross-section in lattice thermal conductivity calculation with differential effective medium method. <i>AIP Advances</i> , 2013 , 3, 082116	1.5	8
7	Thermal conductivity of core-shell nanocomposites for enhancing thermoelectric performance. <i>Applied Physics Letters</i> , 2013 , 102, 173110	3.4	13
6	Half-Heusler phases and nanocomposites as emerging high-ZT thermoelectric materials. <i>Journal of Materials Research</i> , 2011 , 26, 2795-2802	2.5	113
5	Introduction of resonant states and enhancement of thermoelectric properties in half-Heusler alloys. <i>Physical Review B</i> , 2011 , 83,	3.3	41
4	Superconductivity in Transition Metal Doped MoB4. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010 , 23, 417-422	1.5	14
3	Structure, electrical properties and energy storage performance of BNKT-BMN ceramics. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	2
2	Atomic-Scale Observation of Off-Centering Rattlers in Filled Skutterudites. <i>Advanced Energy Materials</i> ,2103770	21.8	1
1	A new family of high temperature stability and ultra-fast charge/discharge KNN-based lead-free ceramics. <i>Journal of Materials Science</i> ,1	4.3	0