

# Di Wu

## List of Publications by Citations

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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	Broad temperature plateau for thermoelectric figure of merit $ZT > 2$ in phase-separated $\text{PbTe}_{0.7}\text{Sb}_{0.3}$ . <i>Nature Communications</i> , <b>2014</b> , 5, 4515	17.4	373
80	Origin of the high performance in GeTe-based thermoelectric materials upon $\text{Bi}_2\text{Te}_3$ doping. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11412-9	16.4	259
79	High thermoelectric performance realized in a $\text{BiCuSeO}$ system by improving carrier mobility through 3D modulation doping. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13902-8	16.4	253
78	Enhanced Thermoelectric Properties in the Counter-Doped $\text{SnTe}$ System with Strained Endotaxial $\text{SrTe}$ . <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2366-73	16.4	213
77	Synergistically optimized electrical and thermal transport properties of $\text{SnTe}$ via alloying high-solubility $\text{MnTe}$ . <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3298-3312	35.4	209
76	Low-cost, abundant binary sulfides as promising thermoelectric materials. <i>Materials Today</i> , <b>2016</b> , 19, 227-239	21.8	196
75	Origin of low thermal conductivity in $\text{SnSe}$ . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	176
74	Superior thermoelectric performance in $\text{PbTe}/\text{PbS}$ pseudo-binary: extremely low thermal conductivity and modulated carrier concentration. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2056-2068	35.4	157
73	Extraordinary Thermoelectric Performance Realized in n-Type $\text{PbTe}$ through Multiphase Nanostructure Engineering. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703148	24	150
72	Large enhancement of thermoelectric properties in n-type $\text{PbTe}$ via dual-site point defects. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2030-2040	35.4	131
71	Superior comprehensive energy storage properties in $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ -based relaxor ferroelectric ceramics. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124158	14.7	123
70	Simultaneous optimization of electrical and thermal transport properties of $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ thermoelectric alloy by twin boundary engineering. <i>Nano Energy</i> , <b>2017</b> , 37, 203-213	17.1	115
69	Half-Heusler phases and nanocomposites as emerging high-ZT thermoelectric materials. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2795-2802	2.5	113
68	Liquid-like thermal conduction in intercalated layered crystalline solids. <i>Nature Materials</i> , <b>2018</b> , 17, 226-230	23.0	92
67	Enhanced energy density and thermal stability in relaxor ferroelectric $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ - $\text{Sr}_{0.7}\text{Bi}_{0.2}\text{TiO}_3$ ceramics. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 4778-4784	6	89
66	$\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ -based relaxor ferroelectric ceramic with large energy density and high efficiency under a moderate electric field. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10514-10520	7.1	81
65	Direct observation of vast off-stoichiometric defects in single crystalline $\text{SnSe}$ . <i>Nano Energy</i> , <b>2017</b> , 35, 321-330	17.1	80

64	Regulation of energy density and efficiency in transparent ceramics by grain refinement. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124566	14.7	79
63	Significantly Enhanced Thermoelectric Performance in n-type Heterogeneous BiAgSeS Composites. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7763-7771	15.6	74
62	High Thermoelectric Performance Achieved in GeTe <sub>1-x</sub> Bi <sub>2x</sub> Te <sub>3</sub> Pseudo-Binary via Van der Waals Gap-Induced Hierarchical Ferroelectric Domain Structure. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806613	15.6	68
61	Advanced electron microscopy for thermoelectric materials. <i>Nano Energy</i> , <b>2015</b> , 13, 626-650	17.1	67
60	Boosting the Thermoelectric Performance of Pseudo-Layered SbTe(GeTe) via Vacancy Engineering. <i>Advanced Science</i> , <b>2018</b> , 5, 1801514	13.6	66
59	Enhanced thermoelectric properties of SnSe polycrystals via texture control. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 31821-31827	3.6	43
58	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. <i>Advanced Materials</i> , <b>2016</b> , 28, 2737-43	24	43
57	Introduction of resonant states and enhancement of thermoelectric properties in half-Heusler alloys. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	41
56	Extremely Low Thermal Conductivity in Thermoelectric Ge <sub>0.55</sub> Pb <sub>0.45</sub> Te Solid Solutions via Se Substitution. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6367-6373	9.6	39
55	Unexpected Large Hole Effective Masses in SnSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , <b>2017</b> , 119, 116401	7.4	37
54	A novel multifunctional ceramic with photoluminescence and outstanding energy storage properties. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127368	14.7	33
53	Revisiting AgCrSe <sub>2</sub> as a promising thermoelectric material. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 23872-8	3.6	32
52	Investigation into the extremely low thermal conductivity in Ba heavily doped BiCuSeO. <i>Nano Energy</i> , <b>2016</b> , 27, 167-174	17.1	29
51	Eutectoid nano-precipitates inducing remarkably enhanced thermoelectric performance in (Sn <sub>1-x</sub> Cd <sub>x</sub> Te) <sub>1-y</sub> (Cu <sub>2</sub> Te) <sub>y</sub> . <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2798-2808	13	28
50	Ultrahigh storage density achieved with (1-x)KNN-xBZN ceramics. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 2936-2944	6	26
49	Grain boundary engineering that induces ultrahigh permittivity and decreased dielectric loss in CdCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 1230-1240	3.8	24
48	Constructing van der Waals gaps in cubic-structured SnTe-based thermoelectric materials. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 5135-5142	35.4	21
47	Step-Up Thermoelectric Performance Realized in Bi <sub>2</sub> Te <sub>3</sub> Alloyed GeTe via Carrier Concentration and Microstructure Modulations. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1616-1622	6.1	20

46	Realizing Improved Thermoelectric Performance in Bi13-Doped Sb2Te3(GeTe)17 via Introducing Dual Vacancy Defects. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1693-1701	9.6	17
45	Temperature stability and low dielectric loss of lithium-doped CdCu3Ti4O12 ceramics for X9R capacitor applications. <i>Ceramics International</i> , <b>2019</b> , 45, 22991-22997	5.1	17
44	Simultaneous realization of broad temperature stability range and outstanding dielectric performance in (Ag+, Ta5+) co-doped TiO2 ceramics. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 783, 423-427	5.7	17
43	Coherent Sb/CuTe Core/Shell Nanostructure with Large Strain Contrast Boosting the Thermoelectric Performance of n-Type PbTe. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007340	15.6	17
42	High energy storage density realized in Bi0.5Na0.5TiO3-based relaxor ferroelectric ceramics at ultralow sintering temperature. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 368-375	6	16
41	Realizing high figure of merit plateau in Ge Bi Te via enhanced Bi solution and Ge precipitation. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 831-839	5.7	15
40	Simultaneous realization of high transparency and piezoelectricity in low symmetry KNN-based ceramics. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 3498-3509	3.8	15
39	Excellent optical transparency of potassium-sodium niobate-based lead-free relaxor ceramics induced by fine grains. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 3684-3692	6	14
38	A compromise between piezoelectricity and transparency in KNN-based ceramics: The dual functions of Li2O addition. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 2331-2337	6	14
37	Superconductivity in Transition Metal Doped MoB4. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2010</b> , 23, 417-422	1.5	14
36	Dislocation Evolution and Migration at Grain Boundaries in Thermoelectric SnTe. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2392-2397	6.1	13
35	Thermal conductivity of core-shell nanocomposites for enhancing thermoelectric performance. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 173110	3.4	13
34	High-efficiency synthesis of high-performance K0.5Na0.5NbO3 ceramics. <i>Powder Technology</i> , <b>2019</b> , 346, 248-255	5.2	12
33	Influence of Bi nonstoichiometry on the energy storage properties of 0.93KNN0.07BixMN relaxor ferroelectrics. <i>Journal of Advanced Dielectrics</i> , <b>2018</b> , 08, 1830006	1.3	12
32	Excellent thermoelectric performance achieved over broad temperature plateau in indium-doped SnTe-AgSbTe2 alloys. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 063902	3.4	11
31	Ag+/W6+ co-doped TiO2 ceramic with colossal permittivity and low loss. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 856, 157350	5.7	11
30	Evaluation of birefringence contribution to transparency in (1-x)KNN-xSr(Al0.5Ta0.5)O3 ceramics: A phase structure tailoring. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 798, 669-677	5.7	9
29	Direct atomic-scale observation of the Ag+ diffusion structure in the quasi-2D liquid-like state of superionic thermoelectric AgCrSe2. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9263-9269	7.1	9

28	Relaxor behaviors and electric response in transparent 0.95(K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> )-0.05Ca(ZrZnyNb <sub>z</sub> ) <sub>1.025</sub> O <sub>3</sub> ceramics with low-symmetric structure. <i>Ceramics International</i> , <b>2019</b> , 45, 3961-3968	5.1	9
27	Excellent near-infrared transparency realized in low-symmetry orthorhombic (K,Na)NbO <sub>3</sub> -based submicron ceramics. <i>Scripta Materialia</i> , <b>2018</b> , 154, 64-67	5.6	9
26	Effective scattering cross-section in lattice thermal conductivity calculation with differential effective medium method. <i>AIP Advances</i> , <b>2013</b> , 3, 082116	1.5	8
25	Strained Endotaxial PbS Nanoprecipitates Boosting Ultrahigh Thermoelectric Quality Factor in n-Type PbTe As-Cast Ingots. <i>Small</i> , <b>2021</b> , e2104496	11	7
24	Effects of preparation method on the microstructure and electrical properties of tungsten bronze structure Sr <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> ceramics. <i>Ceramics International</i> , <b>2019</b> , 45, 558-565	5.1	7
23	Good dielectric performance and broadband dielectric polarization in Ag, Nb co-doped TiO <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 2702-2710	3.8	7
22	Enhanced thermoelectric performance realized in AgBiS <sub>2</sub> composited AgBiSe <sub>2</sub> through indium doping and mechanical alloying. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 213905	3.4	7
21	Colossal dielectric response in CdAl Cu <sub>3</sub> -Ti <sub>4</sub> O <sub>12</sub> perovskite ceramics. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 258, 123940	4.4	6
20	Enhanced thermoelectric performance in GeTe-Sb <sub>2</sub> Te <sub>3</sub> pseudo-binary via lattice symmetry regulation and microstructure stabilization. <i>Materials Today Physics</i> , <b>2021</b> , 21, 100507	8	5
19	Evolvement of microstructure and lattice thermal conductivity in Na doped PbTePbS pseudoBinary system. <i>Journal of Materiomics</i> , <b>2016</b> , 2, 150-157	6.7	4
18	Relaxor nature and superior energy storage performance of Sr <sub>2</sub> Ag <sub>0.2</sub> Na <sub>0.8</sub> Nb <sub>5</sub> O <sub>15</sub> -based tungsten bronze ceramics through B-site substitution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133812	14.7	4
17	Understanding the ultrahigh dielectric permittivity response in titanium dioxide ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 2545-2551	5.1	4
16	Controllable synthesis of (Ba <sub>0.85</sub> Ca <sub>0.15</sub> )(Zr <sub>0.1</sub> Ti <sub>0.9</sub> )O <sub>3</sub> submicron sphere by hydroxide co-precipitation method. <i>Ceramics International</i> , <b>2020</b> , 46, 28285-28291	5.1	3
15	Electrical conduction behavior in nonstoichiometric BaBixNb <sub>5</sub> O <sub>15</sub> tungsten bronze ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 22382-22389	5.1	3
14	Synergy of Valence Band Modulation and Grain Boundary Engineering Leading to Improved Thermoelectric Performance in SnTe. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 14608-14617	6.1	3
13	Low-temperature synthesis of CdCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> powders with high dielectric permittivities. <i>Ceramics International</i> , <b>2019</b> , 45, 11899-11904	5.1	2
12	Impact of yttria stabilized zirconia nanoinclusions on the thermal conductivity of n-type Si <sub>80</sub> Ge <sub>20</sub> alloys prepared by spark plasma sintering. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 145101	2.5	2
11	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> , <b>2022</b> , 42, 2781-2781	6	2

10	Structure, electrical properties and energy storage performance of BNKT-BMN ceramics. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	2
9	High energy and power density achieved in Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -based relaxor ferroelectric ceramics with excellent thermal stability. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 875, 160005	5.7	2
8	Enhanced thermoelectric properties in chimney ladder structured Mn(BxSi <sub>1-x</sub> ) <sub>1.75</sub> due to the dual lattice occupation of boron. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 123902	3.4	1
7	High energy storage and colossal permittivity CdCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> oxide ceramics. <i>Ceramics International</i> , <b>2021</b> , 48, 4255-4255	5.1	1
6	Ultra-low lattice thermal conductivity and enhanced thermoelectric performance in Ag <sub>2</sub> Se <sub>1/3</sub> S <sub>1/3</sub> Te <sub>1/3</sub> via anion permutation and cation modulation. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 885, 161378	5.7	1
5	Atomic-Scale Observation of Off-Centering Rattlers in Filled Skutterudites. <i>Advanced Energy Materials</i> ,2103770	21.8	1
4	Enhanced thermoelectric performance of n-type (PbSe) <sub>n</sub> (Sb <sub>2</sub> Te <sub>3</sub> ) pseudo-binary via Zn filling and Ag <sub>2</sub> Se compositing. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 907, 164416	5.7	1
3	Enhanced Thermoelectric Performance Achieved in SnTe via the Synergy of Valence Band Regulation and Fermi Level Modulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50037-50045	9.5	0
2	Improved grain boundary resistance inducing decreased dielectric loss and colossal permittivity in Y <sub>2</sub> /3Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 283, 125874	4.4	0
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