Chunlei Wan

List of Publications by Year
in descending order

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		182225	124990
65	4,123	30	64
papers	citations	h-index	g-index

65	65	65	5136
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Repressing highâ€temperature radiative heat transfer in thermal barrier coatings. Journal of the American Ceramic Society, 2022, 105, 3485-3497.	1.9	7
2	High thermoelectric performance in flexible TiS₂/organic superlattices. Journal of the Ceramic Society of Japan, 2022, 130, 211-218.	0.5	4
3	Processing and thermal properties of SrTiO3 /Ti3AlC2 ceramic nanocomposites. Ceramics International, 2022, 48, 18739-18744.	2.3	3
4	Sandwiched Graphene/Bi₂Te₃/Graphene Thermoelectric Film with Exceptional Figure of Merit for Flexibility. Advanced Materials Interfaces, 2022, 9, .	1.9	8
5	Ultra-dense dislocations stabilized in high entropy oxide ceramics. Nature Communications, 2022, 13, .	5.8	50
6	Graphene Oxide/Hexylamine Superlattice Fieldâ€Effect Biochemical Sensors. Advanced Functional Materials, 2021, 31, 2010563.	7.8	10
7	Thermal conductivity modeling on highly disordered crystalline Y1â^'xNbxO1.5+x: Beyond the phonon scenario. Applied Physics Letters, 2021, 118, .	1.5	10
8	High electromagnetic interference shielding effectiveness in MgO composites reinforced by aligned graphene platelets. Journal of the American Ceramic Society, 2021, 104, 2868-2878.	1.9	8
9	Thermal conductivity prediction in air plasma sprayed thermal barrier coatings containing multifarious defects. Journal of the American Ceramic Society, 2021, 104, 4788-4802.	1.9	7
10	Y₃NbO₇ transparent ceramic series for high refractive index optical lenses. Journal of the American Ceramic Society, 2021, 104, 5776-5783.	1.9	10
11	Biochemical Sensors: Graphene Oxide/Hexylamine Superlattice Fieldâ€Effect Biochemical Sensors (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	7.8	0
12	Edgeâ€Rich Reduced Graphene Oxide Embedded in Silicaâ€Based Laminated Ceramic Composites for Efficient and Robust Electrocatalytic Hydrogen Evolution. Small Methods, 2021, 5, e2100621.	4.6	5
13	Localized vibration and avoided crossing in SrTi₁₁O₂₀ for oxide thermoelectrics with intrinsically low thermal conductivity. Journal of Materials Chemistry A, 2021, 9, 11674-11682.	5.2	11
14	Flexible Foil of Hybrid TaS 2 /Organic Superlattice: Fabrication and Electrical Properties. Small, 2020, 16, 1901901.	5.2	19
15	Mechanical properties, oxygen barrier property, and chemical stability of RE₃NbO₇ for thermal barrier coating. Journal of the American Ceramic Society, 2020, 103, 2302-2308.	1.9	25
16	Intercalation: Constructing Nanolaminated Reduced Graphene Oxide/Silica Ceramics for Lightweight and Mechanically Reliable Electromagnetic Interference Shielding Applications. ACS Applied Materials & Interfaces, 2020, 12, 55148-55156.	4.0	25
17	Hybrid superlattices of two-dimensional materials and organics. Chemical Society Reviews, 2020, 49, 6866-6883.	18.7	49
18	Embedding two-dimensional graphene array in ceramic matrix. Science Advances, 2020, 6, .	4.7	67

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19	Thermoelectric properties of PbTe-based graphene nanocomposite. Journal of Materials Science: Materials in Electronics, 2020, 31, 20996-21004.	1.1	7
20	Controllable fabrication and multifunctional applications of graphene/ceramic composites. Journal of Advanced Ceramics, 2020, 9, 271-291.	8.9	77
21	Thermal and oxygen transport properties of complex pyrochlore RE2InTaO7 for thermal barrier coating applications. Journal of the European Ceramic Society, 2020, 40, 6229-6235.	2.8	20
22	Hybrid Thermoelectrics. Annual Review of Materials Research, 2020, 50, 319-344.	4.3	14
23	Graphene-Based Thermoelectrics. ACS Applied Energy Materials, 2020, 3, 2224-2239.	2.5	70
24	Oxygenâ€vacancyâ€mediated microstructure and thermophysical properties in Zr₃Ln₄O₁₂ for highâ€temperature applications. Journal of the American Ceramic Society, 2019, 102, 1961-1970.	1.9	14
25	A p-type thermoelectric material BaCu4S3 with high electronic band degeneracy. Journal of Applied Physics, 2019, 126, .	1.1	7
26	Evaluation of Phase Transformation and Mechanical Properties of Metastable Yttria-Stabilized Zirconia by Nanoindentation. Materials, 2019, 12, 1677.	1.3	15
27	Diffused Lattice Vibration and Ultralow Thermal Conductivity in the Binary Lnâ€“Nbâ€“O Oxide System. Advanced Materials, 2019, 31, e1808222.	11.1	49
28	Fabrication and Characterization of a Hybrid Bi₂Se₃/Organic Superlattice for Thermoelectric Energy Conversion. Advanced Electronic Materials, 2019, 5, 1800842.	2.6	33
29	Wearable and flexible thermoelectrics for energy harvesting. MRS Bulletin, 2018, 43, 193-198.	1.7	48
30	Pressureless glass crystallization of transparent yttrium aluminum garnet-based nanoceramics. Nature Communications, 2018, 9, 1175.	5.8	130
31	High photodetectivity of low-voltage flexible photodetectors assembled with hybrid aligned nanowire arrays. Journal of Materials Chemistry C, 2018, 6, 6510-6519.	2.7	23
32	Anisotropy of mechanical and thermal properties of perovskite LaYbO₃: first-principles calculations. Philosophical Magazine, 2018, 98, 2917-2929.	0.7	3
33	A solution-processed TiS₂/organic hybrid superlattice film towards flexible thermoelectric devices. Journal of Materials Chemistry A, 2017, 5, 564-570.	5.2	130
34	Synergetic Enhancement in Photosensitivity and Flexibility of Photodetectors Based on Hybrid Nanobelt Network. Advanced Materials Interfaces, 2017, 4, 1700909.	1.9	15
35	Ultrahigh thermoelectric power factor in flexible hybrid inorganic-organic superlattice. Nature Communications, 2017, 8, 1024.	5.8	136
36	Effect of Uniform Dispersion of Single-Wall Carbon Nanotubes on the Thermoelectric Properties of BiSbTe-Based Nanocomposites. Journal of Electronic Materials, 2017, 46, 1348-1357.	1.0	18

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37	Defect engineering in development of low thermal conductivity materials: A review. Journal of the European Ceramic Society, 2017, 37, 1-13.	2.8	233
38	Flexible thermoelectric foil for wearable energy harvesting. Nano Energy, 2016, 30, 840-845.	8.2	96
39	Eco-friendly p-type Cu2SnS3 thermoelectric material: crystal structure and transport properties. Scientific Reports, 2016, 6, 32501.	1.6	96
40	Highâ€Temperature Aging of Plasma Sprayed Quasiâ€Eutectoid LaYbZr₂O₇â€“Part <scp>II</scp>: Microstructure & Thermal Conductivity. Journal of the American Ceramic Society, 2015, 98, 2836-2842.	1.9	13
41	Highâ€Temperature Aging of Plasma Sprayed Quasiâ€Eutectoid LaYbZr₂O₇â€Part I: Phase Evolution. Journal of the American Ceramic Society, 2015, 98, 2829-2835.	1.9	18
42	Mechanical and thermal properties of fine-grained quasi-eutectoid (La1â^'Yb)2Zr2O7 ceramics. Journal of the European Ceramic Society, 2015, 35, 3145-3154.	2.8	96
43	Flexible n-type thermoelectric materials by organic intercalation of layered transition metalÂdichalcogenide TiS2. Nature Materials, 2015, 14, 622-627.	13.3	612
44	Dielectric Mismatch Mediates Carrier Mobility in Organic-Intercalated Layered TiS₂. Nano Letters, 2015, 15, 6302-6308.	4.5	62
45	Effects of Transition Metal Substitution on the Thermoelectric Properties of Metallic (BiS)1.2(TiS2)2 Misfit Layer Sulfide. Journal of Electronic Materials, 2014, 43, 1870-1874.	1.0	17
46	Thermal conductivities of alumina-based multiwall carbon nanotube ceramic composites. Journal of Materials Science, 2014, 49, 6048-6055.	1.7	29
47	Thermoelectric performance enhancement of (BiS)1.2(TiS2)2 misfit layer sulfide by chromium doping. Journal of Advanced Ceramics, 2013, 2, 42-48.	8.9	25
48	Thermoelectric Ceramics for Energy Harvesting. Journal of the American Ceramic Society, 2013, 96, 1-23.	1.9	286
49	Influence of excess SrO on the thermoelectric properties of heavily doped SrTiO3 ceramics. Applied Physics Letters, 2013, 102, .	1.5	18
50	Solution synthesis and growth mechanism of SrTiO₃mesocrystals. CrystEngComm, 2013, 15, 679-685.	1.3	24
51	Low thermal conductivity oxides. MRS Bulletin, 2012, 37, 917-922.	1.7	298
52	Nanoscale stacking faults induced low thermal conductivity in thermoelectric layered metal sulfides. Applied Physics Letters, 2012, 100, .	1.5	54
53	Orderâ€“Disorder Transition and Unconventional Thermal Conductivities of the (Sm_{1â^'x}Yb_x)₂Zr₂O₇ Series. Journal of the American Ceramic Society, 2011, 94, 592-596.	1.9	95
54	Intercalation: Building a Natural Superlattice for Better Thermoelectric Performance in Layered Chalcogenides. Journal of Electronic Materials, 2011, 40, 1271-1280.	1.0	87

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55	Correlation of the thermal conductivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>L</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>O	1.1	33
56	Effects of YSZ Additions on Thermoelectric Properties of Nb-Doped Strontium Titanate. Journal of Electronic Materials, 2010, 39, 1777-1781.	1.0	32
57	Glass-like thermal conductivity in ytterbium-doped lanthanum zirconate pyrochlore. Acta Materialia, 2010, 58, 6166-6172.	3.8	145
58	Thermal Conductivity of the Rareâ€Earth Strontium Aluminates. Journal of the American Ceramic Society, 2010, 93, 1457-1460.	1.9	20
59	Effects of Texture on the Thermal Conductivity of the LaPO₄ Monazite. Journal of the American Ceramic Society, 2010, 93, 2822-2827.	1.9	17
60	Development of novel thermoelectric materials by reduction of lattice thermal conductivity. Science and Technology of Advanced Materials, 2010, 11, 044306.	2.8	131
61	Low-Thermal-Conductivity (MS)1+x(TiS2)2 (M = Pb, Bi, Sn) Misfit Layer Compounds for Bulk Thermoelectric Materials. Materials, 2010, 3, 2606-2617.	1.3	125
62	Thermal Conductivity of Monaziteâ€Type REPO₄ (RE=La, Ce, Nd, Sm, Eu, Gd). Journal of the American Ceramic Society, 2009, 92, 2687-2692.	1.9	132
63	Enhanced Mechanical Properties of Machinable LaPO₄/Al₂O₃ Composites by Spark Plasma Sintering. International Journal of Applied Ceramic Technology, 2009, 6, 236-242.	1.1	16
64	Ultralow Thermal Conductivity in Highly Anion-Defective Aluminates. Physical Review Letters, 2008, 101, 085901.	2.9	92
65	Rare-Earth Zirconate Ceramics with Fluorite Structure for Thermal Barrier Coatings. Journal of the American Ceramic Society, 2006, 89, 340-342.	1.9	94