

# Chunlei Wan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3369006/chunlei-wan-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61  
papers

2,885  
citations

25  
h-index

53  
g-index

65  
ext. papers

3,479  
ext. citations

7.8  
avg, IF

5.22  
L-index

#	Paper	IF	Citations
61	High thermoelectric performance in flexible TiS <sub>2</sub> /organic superlattices. <i>Journal of the Ceramic Society of Japan</i> , <b>2022</b> , 130, 211-218	1	2
60	Thermal conductivity prediction in air plasma sprayed thermal barrier coatings containing multifarious defects. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 4788-4802	3.8	1
59	Y <sub>3</sub> NbO <sub>7</sub> transparent ceramic series for high refractive index optical lenses. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 5776-5783	3.8	2
58	Graphene Oxide/Hexylamine Superlattice Field-Effect Biochemical Sensors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010563	15.6	4
57	Thermal conductivity modeling on highly disordered crystalline Y <sub>1-x</sub> Nb <sub>x</sub> O <sub>1.5+x</sub> : Beyond the phonon scenario. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 073901	3.4	0
56	High electromagnetic interference shielding effectiveness in MgO composites reinforced by aligned graphene platelets. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 2868-2878	3.8	1
55	Edge-Rich Reduced Graphene Oxide Embedded in Silica-Based Laminated Ceramic Composites for Efficient and Robust Electrocatalytic Hydrogen Evolution.. <i>Small Methods</i> , <b>2021</b> , 5, e2100621	12.8	0
54	Localized vibration and avoided crossing in SrTi <sub>11</sub> O <sub>20</sub> for oxide thermoelectrics with intrinsically low thermal conductivity. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11674-11682	13	1
53	Thermoelectric properties of PbTe-based graphene nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 20996-21004	2.1	1
52	Controllable fabrication and multifunctional applications of graphene/ceramic composites. <i>Journal of Advanced Ceramics</i> , <b>2020</b> , 9, 271-291	10.7	30
51	Thermal and oxygen transport properties of complex pyrochlore RE <sub>2</sub> InTaO <sub>7</sub> for thermal barrier coating applications. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 6229-6235	6	5
50	Hybrid Thermoelectrics. <i>Annual Review of Materials Research</i> , <b>2020</b> , 50, 319-344	12.8	5
49	Graphene-Based Thermoelectrics. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2224-2239	6.1	31
48	Mechanical properties, oxygen barrier property, and chemical stability of RE <sub>3</sub> NbO <sub>7</sub> for thermal barrier coating. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 2302-2308	3.8	10
47	Intercalation: Constructing Nanolaminated Reduced Graphene Oxide/Silica Ceramics for Lightweight and Mechanically Reliable Electromagnetic Interference Shielding Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 55148-55156	9.5	8
46	Hybrid superlattices of two-dimensional materials and organics. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 6866-6883	15.9	15
45	Embedding two-dimensional graphene array in ceramic matrix. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	22

44	Flexible Foil of Hybrid TaS <sub>2</sub> /Organic Superlattice: Fabrication and Electrical Properties. <i>Small</i> , <b>2020</b> , 16, e1901901	11	10
43	Evaluation of Phase Transformation and Mechanical Properties of Metastable Yttria-Stabilized Zirconia by Nanoindentation. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
42	Diffused Lattice Vibration and Ultralow Thermal Conductivity in the Binary Ln-Nb-O Oxide System. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808222	24	23
41	Fabrication and Characterization of a Hybrid Bi <sub>2</sub> Se <sub>3</sub> /Organic Superlattice for Thermoelectric Energy Conversion. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800842	6.4	19
40	A p-type thermoelectric material BaCu <sub>4</sub> S <sub>3</sub> with high electronic band degeneracy. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 025102	2.5	3
39	Wearable and flexible thermoelectrics for energy harvesting. <i>MRS Bulletin</i> , <b>2018</b> , 43, 193-198	3.2	38
38	Pressureless glass crystallization of transparent yttrium aluminum garnet-based nanoceramics. <i>Nature Communications</i> , <b>2018</b> , 9, 1175	17.4	82
37	Anisotropy of mechanical and thermal properties of perovskite LaYbO <sub>3</sub> : first-principles calculations. <i>Philosophical Magazine</i> , <b>2018</b> , 98, 2917-2929	1.6	3
36	Oxygen-vacancy-mediated microstructure and thermophysical properties in Zr <sub>3</sub> Ln <sub>4</sub> O <sub>12</sub> for high-temperature applications. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 102, 1961	3.8	2
35	High photodetectivity of low-voltage flexible photodetectors assembled with hybrid aligned nanowire arrays. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6510-6519	7.1	16
34	A solution-processed TiS <sub>2</sub> /organic hybrid superlattice film towards flexible thermoelectric devices. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 564-570	13	104
33	Synergetic Enhancement in Photosensitivity and Flexibility of Photodetectors Based on Hybrid Nanobelt Network. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700909	4.6	10
32	Ultrahigh thermoelectric power factor in flexible hybrid inorganic-organic superlattice. <i>Nature Communications</i> , <b>2017</b> , 8, 1024	17.4	109
31	Effect of Uniform Dispersion of Single-Wall Carbon Nanotubes on the Thermoelectric Properties of BiSbTe-Based Nanocomposites. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 1348-1357	1.9	14
30	Defect engineering in development of low thermal conductivity materials: A review. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 1-13	6	139
29	Eco-friendly p-type CuSnS thermoelectric material: crystal structure and transport properties. <i>Scientific Reports</i> , <b>2016</b> , 6, 32501	4.9	75
28	Flexible thermoelectric foil for wearable energy harvesting. <i>Nano Energy</i> , <b>2016</b> , 30, 840-845	17.1	80
27	Mechanical and thermal properties of fine-grained quasi-eutectoid (La <sub>1-x</sub> Y <sub>x</sub> ) <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 3145-3154	6	49

26	Flexible n-type thermoelectric materials by organic intercalation of layered transition metal dichalcogenide TiS <sub>2</sub> . <i>Nature Materials</i> , <b>2015</b> , 14, 622-7	27	494
25	Dielectric Mismatch Mediates Carrier Mobility in Organic-Intercalated Layered TiS <sub>2</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 6302-8	11.5	49
24	High-Temperature Aging of Plasma Sprayed Quasi-Eutectoid LaYbZr <sub>2</sub> O <sub>7</sub> -Part II: Microstructure & Thermal Conductivity. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2836-2842	3.8	6
23	High-Temperature Aging of Plasma Sprayed Quasi-Eutectoid LaYbZr <sub>2</sub> O <sub>7</sub> -Part I: Phase Evolution. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2829-2835	3.8	8
22	Effects of Transition Metal Substitution on the Thermoelectric Properties of Metallic (BiS) <sub>1.2</sub> (TiS <sub>2</sub> ) <sub>2</sub> Misfit Layer Sulfide. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 1870-1874	1.9	16
21	Thermal conductivities of alumina-based multiwall carbon nanotube ceramic composites. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6048-6055	4.3	24
20	Thermoelectric performance enhancement of (BiS) <sub>1.2</sub> (TiS <sub>2</sub> ) <sub>2</sub> misfit layer sulfide by chromium doping. <i>Journal of Advanced Ceramics</i> , <b>2013</b> , 2, 42-48	10.7	22
19	Thermoelectric Ceramics for Energy Harvesting. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 1-23	3.8	240
18	Influence of excess SrO on the thermoelectric properties of heavily doped SrTiO <sub>3</sub> ceramics. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 183905	3.4	16
17	Solution synthesis and growth mechanism of SrTiO <sub>3</sub> mesocrystals. <i>CrystEngComm</i> , <b>2013</b> , 15, 679-685	3.3	20
16	Low thermal conductivity oxides. <i>MRS Bulletin</i> , <b>2012</b> , 37, 917-922	3.2	222
15	Nanoscale stacking faults induced low thermal conductivity in thermoelectric layered metal sulfides. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 101913	3.4	47
14	Order-Disorder Transition and Unconventional Thermal Conductivities of the (Sm <sub>1-x</sub> Ybx) <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Series. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 592-596	3.8	64
13	Intercalation: Building a Natural Superlattice for Better Thermoelectric Performance in Layered Chalcogenides. <i>Journal of Electronic Materials</i> , <b>2011</b> , 40, 1271-1280	1.9	78
12	Calculation of the thermal conductivity of L <sub>2</sub> SrAl <sub>2</sub> O <sub>7</sub> (L= La, Nd, Sm, Eu, Gd, Dy). <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	32
11	Thermal Conductivity of the Rare-Earth Strontium Aluminates. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 1457	3.8	11
10	Effects of Texture on the Thermal Conductivity of the LaPO <sub>4</sub> Monazite. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2822-2827	3.8	12
9	Development of novel thermoelectric materials by reduction of lattice thermal conductivity. <i>Science and Technology of Advanced Materials</i> , <b>2010</b> , 11, 044306	7.1	107

8	Low-Thermal-Conductivity (MS) <sub>1+x</sub> (TiS <sub>2</sub> ) <sub>2</sub> (M = Pb, Bi, Sn) Misfit Layer Compounds for Bulk Thermoelectric Materials. <i>Materials</i> , <b>2010</b> , 3, 2606-2617	3.5	106
7	Effects of YSZ Additions on Thermoelectric Properties of Nb-Doped Strontium Titanate. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 1777-1781	1.9	28
6	Glass-like thermal conductivity in ytterbium-doped lanthanum zirconate pyrochlore. <i>Acta Materialia</i> , <b>2010</b> , 58, 6166-6172	8.4	99
5	Thermal Conductivity of Monazite-Type REPO <sub>4</sub> (RE=La, Ce, Nd, Sm, Eu, Gd). <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 2687-2692	3.8	98
4	Enhanced Mechanical Properties of Machinable LaPO <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> Composites by Spark Plasma Sintering. <i>International Journal of Applied Ceramic Technology</i> , <b>2009</b> , 6, 236-242	2	10
3	Ultralow thermal conductivity in highly anion-defective aluminates. <i>Physical Review Letters</i> , <b>2008</b> , 101, 085901	7.4	75
2	Rare-Earth Zirconate Ceramics with Fluorite Structure for Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 340-342	3.8	72
1	Sandwiched Graphene/Bi <sub>2</sub> Te <sub>3</sub> /Graphene Thermoelectric Film with Exceptional Figure of Merit for Flexibility. <i>Advanced Materials Interfaces</i> , 2200555	4.6	1