

# Wen Zhu

## List of Publications by Year in descending order

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49  
papers

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394421

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Coaxial Heterogeneous Structure of TiO <sub>2</sub> Nanotube Arrays with CdS as a Superthin Coating Synthesized via Modified Electrochemical Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2010, 132, 12619-12626.	13.7	159
2	Polypyrrole/TiO <sub>2</sub> nanotube arrays with coaxial heterogeneous structure as sulfur hosts for lithium sulfur batteries. <i>Journal of Power Sources</i> , 2016, 327, 447-456.	7.8	74
3	Synthesis of CoSb <sub>3</sub> skutterudite by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2004, 375, 229-232.	5.5	67
4	Formation and Characterization of Sb <sub>2</sub> Te <sub>3</sub> Nanofilms on Pt by Electrochemical Atomic Layer Epitaxy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4599-4604.	2.6	66
5	Thermoelectric properties of silver-doped n-type Bi <sub>2</sub> Te <sub>3</sub> -based material prepared by mechanical alloying and subsequent hot pressing. <i>Journal of Alloys and Compounds</i> , 2006, 407, 330-333.	5.5	64
6	Improvement of photocatalytic hydrogen generation from CdSe/CdS/TiO <sub>2</sub> nanotube-array coaxial heterogeneous structure. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 90-99.	7.1	62
7	The effect of oxygen partial pressure on the formation of (Bi, <sub>1-x</sub> Tl) <sub>1-x</sub> Te <sub>2</sub> superconductor phase. <i>Materials Research</i> , 1992, 7, 38-42.	2.6	53
8	An efficient approach to control the morphology and the adhesion properties of anodized TiO <sub>2</sub> nanotube arrays for improved photoconversion efficiency. <i>Electrochimica Acta</i> , 2011, 56, 2618-2626.	5.2	47
9	The influence of oxygen partial pressure and temperature on Bi <sub>2</sub> (Pb <sub>1-x</sub> Sr <sub>x</sub> ) <sub>2</sub> Te <sub>3</sub> 110 K superconductor phase formation and its stability. <i>Journal of Applied Physics</i> , 1993, 73, 8423-8428.	2.5	44
10	Electrodeposition and characterization of Bi <sub>2</sub> Se <sub>3</sub> thin films by electrochemical atomic layer epitaxy (ECALE). <i>Electrochimica Acta</i> , 2009, 54, 6821-6826.	5.2	39
11	Electrochemical aspects of the formation of Bi <sub>2</sub> Te <sub>3</sub> thin film via the route of ECALE. <i>Journal of Electroanalytical Chemistry</i> , 2005, 577, 117-123.	3.8	34
12	Atmosphere-temperature-time relationships for the formation of 110 K phase in the Bi <sub>2</sub> (Pb <sub>1-x</sub> Sr <sub>x</sub> ) <sub>2</sub> Te <sub>3</sub> high T <sub>c</sub> superconductor system. <i>Applied Physics Letters</i> , 1992, 61, 717-719.	3.3	33
13	Microstructure control and thermoelectric properties improvement to n-type bismuth telluride based materials by hot extrusion. <i>Journal of Alloys and Compounds</i> , 2007, 429, 156-162.	5.5	29
14	Electrochemical Aspects and Structure Characterization of VA-VIA Compound Semiconductor Bi <sub>2</sub> Te <sub>3</sub> /Sb <sub>2</sub> Te <sub>3</sub> Superlattice Thin Films via Electrochemical Atomic Layer Epitaxy. <i>Langmuir</i> , 2008, 24, 5919-5924.	3.5	28
15	Epitaxial hetero-structure of CdSe/TiO <sub>2</sub> nanotube arrays with PEDOT as a hole transfer layer for photoelectrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6233-6244.	10.3	27
16	Structure and electrical properties of bismuth thin films prepared by flash evaporation method. <i>Materials Letters</i> , 2007, 61, 4341-4343.	2.6	26
17	Preparation of a carbon nanofibers-carbon matrix-sulfur composite as the cathode material of lithium-sulfur batteries. <i>RSC Advances</i> , 2016, 6, 7159-7171.	3.6	25
18	Bio-inspired self-healing polymer foams with bilayered capsule systems. <i>Composites Science and Technology</i> , 2020, 195, 108189.	7.8	23

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19	Preparation of lamellar carbon matrix for sulfur as cathode material of lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2014, 143, 374-382.	5.2	21
20	Electrochemical atom-by-atom growth of highly uniform thin sheets of thermoelectric bismuth telluride via the route of ECAL. <i>Journal of Electroanalytical Chemistry</i> , 2008, 614, 41-48.	3.8	20
21	Effect of La filling on thermoelectric properties of $\text{La}_x\text{Co}_{3.6}\text{Ni}_{0.4}\text{Sb}_{12}$ -filled skutterudite prepared by MA-HP method. <i>Journal of Solid State Chemistry</i> , 2006, 179, 212-216.	2.9	19
22	Preparation and thermoelectric properties of $\text{La}_x\text{FeCo}_3\text{Sb}_{12}$ skutterudites by mechanical alloying and hot pressing. <i>Journal of Alloys and Compounds</i> , 2006, 421, 105-108.	5.5	18
23	Preparation and thermoelectric properties of La filled skutterudites by mechanical alloying and hot pressing. <i>Materials Letters</i> , 2006, 60, 2029-2032.	2.6	18
24	Thermoelectric properties of p-type Te-doped (Bi,Sb) $_2\text{Te}_3$ alloys by mechanical alloying and plasma activated sintering. <i>Journal of Alloys and Compounds</i> , 2008, 448, 308-312.	5.5	18
25	Synthesis of $\text{Bi}_2\text{Te}_3$ nanopowders by vacuum arc plasma evaporation. <i>Powder Technology</i> , 2007, 172, 63-66.	4.2	16
26	Multifunctional composite multilayer coatings on glass with self-cleaning, hydrophilicity and heat-insulating properties. <i>Thin Solid Films</i> , 2012, 526, 201-211.	1.8	16
27	Kinetics and Formation of the 110 K Phase in the Bismuth-Lead-Strontium-Calcium-Copper-Oxygen System. <i>Journal of the American Ceramic Society</i> , 1997, 80, 1975-1980.	3.8	15
28	Effect of processing parameters on formation and thermoelectric properties of $\text{La}_{0.4}\text{FeCo}_3\text{Sb}_{12}$ skutterudite by MA-HP method. <i>Journal of Alloys and Compounds</i> , 2009, 476, 802-806.	5.5	15
29	Fabrication of Ag-Sn-Sb-Te based thermoelectric materials by MA-PAS and their properties. <i>Journal of Alloys and Compounds</i> , 2010, 507, 167-171.	5.5	15
30	Preparation of reduced carbon-wrapped carbon-sulfur composite as cathode material of lithium-sulfur batteries. <i>RSC Advances</i> , 2015, 5, 93926-93936.	3.6	15
31	Highly efficient photoanodes based on cascade structural semiconductors of $\text{Cu}_2\text{Se}/\text{CdSe}/\text{TiO}_2$ : a multifaceted approach to achieving microstructural and compositional control. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1336-1344.	10.3	14
32	Effect of sintering temperature on formation and thermoelectric properties of $\text{La}_{0.4}\text{Ni}_{0.4}\text{Co}_{3.6}\text{Sb}_{12}$ skutterudite by mechanical alloying and hot pressing. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 3966-3969.	2.8	11
33	Thickness and temperature dependence of electrical resistivity of p-type $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ thin films prepared by flash evaporation method. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 5064-5068.	2.8	11
34	Diffusion calculations for the 80-K-to-110-K Bi(Pb)SrCaCuO superconducting phase transformation. <i>Journal of Materials Research</i> , 1999, 14, 4143-4147.	2.6	10
35	Thermoelectric properties of La filled skutterudite prepared by mechanical alloying and hot pressing. <i>Journal of Alloys and Compounds</i> , 2005, 399, 276-279.	5.5	10
36	Phase Transformation and Synthesis of Ni Substituted $\text{CoSb}_3$ Skutterudite Synthesis during Solid State Reaction. <i>Materials Science Forum</i> , 2005, 475-479, 857-860.	0.3	9

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37	The cell engineering construction and function evaluation of multi-layer biochip dialyzer. <i>Biomedical Microdevices</i> , 2013, 15, 781-791.	2.8	8
38	Effect of Ni Substitution for Co on the Electrochemical Properties of $\text{La}_{0.75}\text{Mg}_{0.25}\text{Ni}_{2.7+x}\text{Co}_{0.4-x}\text{Mn}_{0.1}\text{Al}_{0.3}$ ( $x=0\text{--}0.4$ ) Hydrogen Storage Alloys Synthesized by Chemical Co-precipitation plus Reduction Method. <i>Journal of the Electrochemical Society</i> , 2014, 161, A89-A96.	2.9	8
39	The hemocompatibility and the reabsorption function of $\text{TiO}_2$ nanotubes biomembranes. <i>Science Bulletin</i> , 2012, 57, 2022-2028.	1.7	7
40	Deposition of antimony telluride thin film by ECALE. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 685-692.	0.9	6
41	Structural and thermoelectric properties of Ag-doped $\text{Bi}_2(\text{Te}_{0.95}\text{Se}_{0.05})_3$ thin films prepared by flash evaporation. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5971-5974.	2.8	6
42	Characterization and Thermoelectric Properties of $\text{La}_{0.4}\text{Ni}_{0.2}\text{Co}_{3.8}\text{Sb}_{12}$ Filled Skutterudite Prepared by the MA-HP Method. <i>Journal of the American Ceramic Society</i> , 2011, 94, 277-280.	3.8	4
43	Zr doped NASICON-type LTP glass-ceramic as a super-thin coating onto deoxidized carbon wrapped CNT-S cathode for lithium-sulphur battery. <i>Electrochimica Acta</i> , 2022, 423, 140567.	5.2	4
44	Enhancement of photoconversion efficiency and light harvesting ability of $\text{TiO}_2$ nanotube-arrays with $\text{Cu}_2\text{ZnSnS}_4$ . <i>International Journal of Hydrogen Energy</i> , 2022, 47, 31003-31013.	7.1	3
45	Preparation of bismuth telluride thin film by electrochemical atomic layer epitaxy (ECALE). <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 102-106.	0.4	2
46	Cuprous oxide/titanium dioxide nanotube-array with coaxial heterogeneous structure synthesized by multiple-cycle chemical adsorption plus reduction method. <i>RSC Advances</i> , 2016, 6, 59160-59168.	3.6	2
47	Oxygen Ion Diffusion in a 110 K Phase $\text{BiPbSrCaCuO}$ Superconductor. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1617-1620.	3.8	1
48	Effect of Surface Characteristics of $\text{TiO}_2$ Nanotube Arrays on Porcine Renal Tubular Epithelial Cell Growth. <i>Scientia Sinica Vitae</i> , 2011, 41, 249-257.	0.3	1
49	Preparation and functional assessment of a multifunctional composite artificial kidney microchip. <i>Chinese Science Bulletin</i> , 2014, 59, 1723-1731.	0.7	1