

# Wen Zhu

## List of Publications by Year in descending order

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49  
papers

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citations

394421

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377865

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all docs

49  
docs citations

49  
times ranked

1573  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of photoconversion efficiency and light harvesting ability of TiO <sub>2</sub> nanotube-arrays with Cu <sub>2</sub> ZnSnS <sub>4</sub> . International Journal of Hydrogen Energy, 2022, 47, 31003-31013.	7.1	3
2	Zr doped NASICON-type LATP glass-ceramic as a super-thin coating onto deoxidized carbon wrapped CNT-S cathode for lithium-sulphur battery. Electrochimica Acta, 2022, 423, 140567.	5.2	4
3	Bio-inspired self-healing polymer foams with bilayered capsule systems. Composites Science and Technology, 2020, 195, 108189.	7.8	23
4	Epitaxial hetero-structure of CdSe/TiO <sub>2</sub> nanotube arrays with PEDOT as a hole transfer layer for photoelectrochemical hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 6233-6244.	10.3	27
5	Polypyrrole/TiO <sub>2</sub> nanotube arrays with coaxial heterogeneous structure as sulfur hosts for lithium sulfur batteries. Journal of Power Sources, 2016, 327, 447-456.	7.8	74
6	Cuprous oxide/titanium dioxide nanotube-array with coaxial heterogeneous structure synthesized by multiple-cycle chemical adsorption plus reduction method. RSC Advances, 2016, 6, 59160-59168.	3.6	2
7	Highly efficient photoanodes based on cascade structural semiconductors of Cu <sub>2</sub> Se/CdSe/TiO <sub>2</sub> : a multifaceted approach to achieving microstructural and compositional control. Journal of Materials Chemistry A, 2016, 4, 1336-1344.	10.3	14
8	Preparation of a carbon nanofibers-carbon matrix-sulfur composite as the cathode material of lithium-sulfur batteries. RSC Advances, 2016, 6, 7159-7171.	3.6	25
9	Preparation of reduced carbon-wrapped carbon-sulfur composite as cathode material of lithium-sulfur batteries. RSC Advances, 2015, 5, 93926-93936.	3.6	15
10	Preparation of lamellar carbon matrix for sulfur as cathode material of lithium-sulfur batteries. Electrochimica Acta, 2014, 143, 374-382.	5.2	21
11	Improvement of photocatalytic hydrogen generation from CdSe/CdS/TiO <sub>2</sub> nanotube-array coaxial heterogeneous structure. International Journal of Hydrogen Energy, 2014, 39, 90-99.	7.1	62
12	Effect of Ni Substitution for Co on the Electrochemical Properties of La <sub>0.75</sub> Mg <sub>0.25</sub> Ni <sub>2.7+x</sub> Co <sub>0.4-x</sub> Mn <sub>0.1</sub> Al <sub>0.3</sub> (x= 0-0.4) Hydrogen Storage Alloys Synthesized by Chemical Co-precipitation plus Reduction Method. Journal of the Electrochemical Society, 2014, 161, A89-A96.	2.9	8
13	Preparation and functional assessment of a multifunctional composite artificial kidney microchip. Chinese Science Bulletin, 2014, 59, 1723-1731.	0.7	1
14	The cell engineering construction and function evaluation of multi-layer biochip dialyzer. Biomedical Microdevices, 2013, 15, 781-791.	2.8	8
15	Multifunctional composite multilayer coatings on glass with self-cleaning, hydrophilicity and heat-insulating properties. Thin Solid Films, 2012, 526, 201-211.	1.8	16
16	The hemocompatibility and the reabsorption function of TiO <sub>2</sub> nanotubes biomembranes. Science Bulletin, 2012, 57, 2022-2028.	1.7	7
17	Characterization and Thermoelectric Properties of La <sub>0.4</sub> Ni <sub>0.2</sub> Co <sub>3.8</sub> Sb <sub>12</sub> Filled Skutterudite Prepared by the MA-HP Method. Journal of the American Ceramic Society, 2011, 94, 277-280.	3.8	4
18	An efficient approach to control the morphology and the adhesion properties of anodized TiO <sub>2</sub> nanotube arrays for improved photoconversion efficiency. Electrochimica Acta, 2011, 56, 2618-2626.	5.2	47

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19	Effect of Surface Characteristics of TiO <sub>2</sub> Nanotube Arrays on Porcine Renal Tubular Epithelial Cell Growth. <i>Scientia Sinica Vitae</i> , 2011, 41, 249-257.	0.3	1
20	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
21	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
22	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
23	Effect of processing parameters on formation and thermoelectric properties of La <sub>0.4</sub> FeCo <sub>3</sub> Sb <sub>12</sub> skutterudite by MA-HP method. <i>Journal of Alloys and Compounds</i> , 2009, 476, 802-806.	5.5	15
24	Electrochemical atom-by-atom growth of highly uniform thin sheets of thermoelectric bismuth telluride via the route of ECALE. <i>Journal of Electroanalytical Chemistry</i> , 2008, 614, 41-48.	3.8	20
25	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
26	Thermoelectric properties of p-type Te-doped (Bi,Sb) <sub>2</sub> Te <sub>3</sub> alloys by mechanical alloying and plasma activated sintering. <i>Journal of Alloys and Compounds</i> , 2008, 448, 308-312.	5.5	18
27	Structural and thermoelectric properties of Ag-doped Bi <sub>2</sub> (Te <sub>0.95</sub> Se <sub>0.05</sub> ) <sub>3</sub> thin films prepared by flash evaporation. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5971-5974.	2.8	6
28	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
29	Synthesis of Bi <sub>2</sub> Te <sub>3</sub> nanopowders by vacuum arc plasma evaporation. <i>Powder Technology</i> , 2007, 172, 63-66.	4.2	16
30	Structure and electrical properties of bismuth thin films prepared by flash evaporation method. <i>Materials Letters</i> , 2007, 61, 4341-4343.	2.6	26
31	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
32	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
33	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
34	Preparation and thermoelectric properties of La <sub>x</sub> FeCo <sub>3</sub> Sb <sub>12</sub> skutterudites by mechanical alloying and hot pressing. <i>Journal of Alloys and Compounds</i> , 2006, 421, 105-108.	5.5	18
35	Effect of La filling on thermoelectric properties of La <sub>x</sub> Co <sub>3.6</sub> Ni <sub>0.4</sub> Sb <sub>12</sub> -filled skutterudite prepared by MA-HP method. <i>Journal of Solid State Chemistry</i> , 2006, 179, 212-216.	2.9	19
36	Deposition of antimony telluride thin film by ECALE. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 685-692.	0.9	6

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37	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
38	Thickness and temperature dependence of electrical resistivity of p-type Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> thin films prepared by flash evaporation method. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 5064-5068.	2.8	11
39	Electrochemical aspects of the formation of Bi <sub>2</sub> Te <sub>3</sub> thin film via the route of ECAL. <i>Journal of Electroanalytical Chemistry</i> , 2005, 577, 117-123.	3.8	34
40	Phase Transformation and Synthesis of Ni Substituted CoSb <sub>3</sub> Skutterudite Synthesis during Solid State Reaction. <i>Materials Science Forum</i> , 2005, 475-479, 857-860.	0.3	9
41	Effect of sintering temperature on formation and thermoelectric properties of La <sub>0.4</sub> Ni <sub>0.4</sub> Co <sub>3.6</sub> Sb <sub>12</sub> skutterudite by mechanical alloying and hot pressing. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 3966-3969.	2.8	11
42	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
43	Synthesis of CoSb <sub>3</sub> skutterudite by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2004, 375, 229-232.	5.5	67
44	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
45	Oxygen Ion Diffusion in a 110 K Phase BiPbSrCaCuO Superconductor. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1617-1620.	3.8	1
46	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
47	The influence of oxygen partial pressure and temperature on BiPbSrCaCuO 110 K superconductor phase formation and its stability. <i>Journal of Applied Physics</i> , 1993, 73, 8423-8428.	2.5	44
48	Atmosphere-temperature-time relationships for the formation of 110 K phase in the Bi(Pb)SrCaCuO high T <sub>c</sub> superconductor system. <i>Applied Physics Letters</i> , 1992, 61, 717-719.	3.3	33
49	The effect of oxygen partial pressure on the formation of (Bi, Tl)ETQq1-10.784314rgBT / Overlock 10 Tf 50 267 Td (Pb) <sub>2</sub> Materials Research, 1992, 7, 38-42.	2.6	53