

# Zhong-Chun Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

565  
citations

687363

13  
h-index

642732

23  
g-index

30  
all docs

30  
docs citations

30  
times ranked

594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of selective laser melting parameters and influence of post heat treatment on microstructure and mechanical properties of maraging steel. <i>Materials and Design</i> , 2018, 139, 486-497.	7.0	206
2	Microstructural evolution of reactive-sintered aluminum matrix composites. <i>Composites Science and Technology</i> , 2008, 68, 2245-2253.	7.8	35
3	Improved Thermoelectric Properties of Hot-Extruded Bi-Te-Se Bulk Materials with Cu Doping and Property Predictions via Machine Learning. <i>Advanced Electronic Materials</i> , 2019, 5, 1900079.	5.1	26
4	Microstructure and thermoelectric properties of hot-extruded Bi-Te-Se bulk materials. <i>Journal of Alloys and Compounds</i> , 2016, 663, 134-139.	5.5	21
5	Preparation and Characterization of Bi <sub>0.4</sub> Sb <sub>1.6</sub> Te <sub>3</sub> Bulk Thermoelectric Materials. <i>Journal of Electronic Materials</i> , 2014, 43, 2262-2268.	2.2	20
6	Effect of annealing on microstructure and thermoelectric properties of hot-extruded Bi-Sb-Te bulk materials. <i>Journal of Materials Science</i> , 2018, 53, 9117-9130.	3.7	19
7	Fabrication of Zn <sub>4</sub> Sb <sub>3</sub> Bulk Thermoelectric Materials Reinforced with SiC Whiskers. <i>Journal of Electronic Materials</i> , 2014, 43, 2047-2052.	2.2	18
8	Orientation control of carbon fibers and enhanced thermal/mechanical properties of hot-extruded carbon fibers/aluminum composites. <i>Diamond and Related Materials</i> , 2021, 116, 108432.	3.9	17
9	Microstructure and thermoelectric properties of Bi-Sb-Te bulk materials fabricated from rapidly solidified powders. <i>Scripta Materialia</i> , 2017, 136, 111-114.	5.2	16
10	Microstructure and improved mechanical properties of Al <sub>2</sub> O <sub>3</sub> /Ba- $\gamma$ -Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> composites with YSZ addition. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5113-5121.	5.7	15
11	Fabrication of aluminum-magnesium clad composites by continuous extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140670.	5.6	15
12	Formation of Te-rich phase and its effect on microstructure and thermoelectric properties of hot-extruded Bi-Te-Se bulk materials. <i>Journal of Alloys and Compounds</i> , 2016, 684, 516-523.	5.5	14
13	Interfacial reaction behavior and thermal stability of barium zirconate-coated alumina fiber/alumina matrix composites. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1149-1160.	5.7	13
14	Effect of Cu doping on microstructure and thermoelectric properties of Bi <sub>2</sub> Te <sub>2.85</sub> Se <sub>0.15</sub> bulk materials. <i>Scripta Materialia</i> , 2018, 146, 119-122.	5.2	13
15	Solid-state synthesis and formation mechanism of barium hexaaluminate from mechanically activated Al <sub>2</sub> O <sub>3</sub> -BaCO <sub>3</sub> powder mixtures. <i>Journal of Alloys and Compounds</i> , 2010, 502, 466-471.	5.5	12
16	Microstructure and its influence on thermoelectric properties of hot-extruded Bi-Sb-Te bulk materials. <i>Scripta Materialia</i> , 2017, 141, 89-93.	5.2	12
17	In situ synthesis of alumina-matrix oxide/oxide composites by reactive sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 557, 59-68.	5.6	11
18	Processing Optimization and Property Predictions of Hot-Extruded Bi-Te-Se Thermoelectric Materials via Machine Learning. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900197.	2.8	10

#	ARTICLE	IF	CITATIONS
19	Microstructure and thermal/mechanical properties of hot-extruded aluminum/graphite composites with Al-Si alloy addition. <i>Journal of Materials Science</i> , 2019, 54, 9933-9944.	3.7	9
20	Effect of Processing Conditions on Microstructure and Thermal Conductivity of Hot-Extruded Aluminum/Graphite Composites. <i>Materials Transactions</i> , 2019, 60, 136-143.	1.2	9
21	Effect of YSZ with different Y <sub>2</sub> O <sub>3</sub> contents on toughening behavior of Al <sub>2</sub> O <sub>3</sub> /Ba- $\lambda$ -Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> composites. <i>Ceramics International</i> , 2019, 45, 18037-18043.	4.8	8
22	Microstructure and thermal properties of nickel-coated carbon fibers/aluminum composites. <i>Journal of Composite Materials</i> , 2020, 54, 2539-2548.	2.4	8
23	Microstructure and tensile properties of in-situ synthesized and hot-extruded aluminum-matrix composites reinforced with hybrid submicron-sized ceramic particles. <i>Journal of Composite Materials</i> , 2022, 56, 1987-2001.	2.4	8
24	Microstructural evolution of Ti <sup>4+</sup> -doped calcium hexaaluminate ceramics. <i>Ceramics International</i> , 2020, 46, 12897-12901.	4.8	7
25	Extrusion Behavior and Thermoelectric Properties of Bi <sub>2</sub> Te <sub>2.85</sub> Se <sub>0.15</sub> Thermoelectric Materials. <i>Procedia Engineering</i> , 2014, 81, 616-621.	1.2	6
26	Influence of in-situ formed Ba- $\lambda$ -Al <sub>2</sub> O <sub>3</sub> on mechanical properties and thermal shock resistance of ZTA/Ba- $\lambda$ -Al <sub>2</sub> O <sub>3</sub> composites. <i>Ceramics International</i> , 2020, 46, 3738-3743.	4.8	6
27	Microstructure and thermoelectric properties of higher manganese silicides fabricated via gas atomization and spark plasma sintering. <i>Materials Chemistry and Physics</i> , 2020, 249, 122990.	4.0	6
28	Fabrication and Thermoelectric Properties of Cu-doped Bi-Te-Se Bulk Materials. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016, 63, 613-617.	0.2	5
29	Preparation of a Novel Antiviral Material by Mechanical Milling. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016, 63, 668-674.	0.2	0
30	Fabrication of Bi <sub>2</sub> Te <sub>3</sub> -based Bulk Thermoelectric Materials by a Powder Extrusion Technique. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2021, 68, 390-398.	0.2	0