

# Zheng-yang Hu

## List of Publications by Year in descending order

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21  
papers

905  
citations

840776

11  
h-index

752698

20  
g-index

21  
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21  
docs citations

21  
times ranked

801  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of multi-physical fields induced phenomena and effects in spark plasma sintering: Fundamentals and applications. <i>Materials and Design</i> , 2020, 191, 108662.	7.0	286
2	Rapid and low temperature spark plasma sintering synthesis of novel carbon nanotube reinforced titanium matrix composites. <i>Carbon</i> , 2015, 95, 396-407.	10.3	162
3	Investigation on the microstructure, room and high temperature mechanical behaviors and strengthening mechanisms of the (TiB+TiC)/TC4 composites. <i>Journal of Alloys and Compounds</i> , 2017, 726, 240-253.	5.5	88
4	Novel synthesizing and characterization of copper matrix composites reinforced with carbon nanotubes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 80-89.	5.6	86
5	Improvement of interfacial interaction and mechanical properties in copper matrix composites reinforced with copper coated carbon nanotubes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 163-173.	5.6	61
6	Synergistic strengthening effect of nanocrystalline copper reinforced with carbon nanotubes. <i>Scientific Reports</i> , 2016, 6, 26258.	3.3	45
7	Spark plasma sintering of B4C-TiB2-SiC composite ceramics using B4C, Ti3SiC2 and Si as starting materials. <i>Ceramics International</i> , 2018, 44, 21626-21632.	4.8	39
8	The influence of defect structures on the mechanical properties of Ti-6Al-4V alloys deformed by high-pressure torsion at ambient temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 1-13.	5.6	38
9	Microstructure and mechanical properties of super-hard B4C ceramic fabricated by spark plasma sintering with (Ti3SiC2+Si) as sintering aid. <i>Ceramics International</i> , 2019, 45, 8790-8797.	4.8	30
10	Influences of the pre-oxidation time on the microstructure and flexural strength of monolithic B4C ceramic and TiB2-SiC/B4C composite ceramic. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154852.	5.5	13
11	Fully dense B4C ceramics fabricated by spark plasma sintering at relatively low temperature. <i>Materials Research Express</i> , 2018, 5, 105201.	1.6	12
12	Mechanical properties and pre-oxidation behavior of spark plasma sintered B4C ceramics using (Ti3SiC2+CeO2/La2O3) as sintering aid. <i>Ceramics International</i> , 2020, 46, 22189-22196.	4.8	12
13	Strain induced additional growth and high integrity of TiB-whiskers in titanium matrix composite: intrinsic mechanisms and superior strengthening effects. <i>Materials Research Express</i> , 2019, 6, 126519.	1.6	8
14	A rapid route for synthesizing Ti-(AlxTi)/UFG Al core-multishell structured particles reinforced Al matrix composite with promising mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 721, 61-64.	5.6	7
15	Microstructure evolution and tensile properties of Ti-(AlxTi) core-shell structured particles reinforced aluminum matrix composites after hot-rolling/heat-treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 737, 90-93.	5.6	6
16	Microstructures and mechanical properties of bulk nanocrystalline silver fabricated by spark plasma sintering. <i>Journal of Materials Research</i> , 2016, 31, 2223-2232.	2.6	3
17	Interface structure and properties of CNTs/Cu composites fabricated by electroless deposition and spark plasma sintering. <i>Materials Research Express</i> , 2018, 5, 015602.	1.6	3
18	A rapid route to fabricate <i>in situ</i> TiB-whisker-reinforced Ti-6Al-4V alloy composites by spark plasma sintering and heat treatment. <i>Materials Research Express</i> , 2019, 6, 1265d3.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Influence of the sintering temperature on the microstructure, mechanical properties and densification characteristics of (TiB <sub>2</sub> +TiC)/TC4 composite. Materials Research Express, 2021, 8, 126517.	1.6	2
20	Microstructure and mechanical properties of B <sub>4</sub> C matrix composites sintered with (TiB <sub>2</sub> +Al). Journal of Physics: Conference Series, 2020, 1676, 012046.	0.4	1
21	Microstructure and mechanical properties of B <sub>4</sub> C ceramics by spark plasma sintering. Journal of Physics: Conference Series, 2020, 1676, 012084.	0.4	0