

Zheng-yang Hu

List of Publications by Year in descending order

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21
papers

905
citations

840585

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752573

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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.	3.3	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.	5.4	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.	2.8	88
4	Novel synthesizing and characterization of copper matrix composites reinforced with carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 80-89.	2.6	86
5	Improvement of interfacial interaction and mechanical properties in copper matrix composites reinforced with copper coated carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 163-173.	2.6	61
6	Synergistic strengthening effect of nanocrystalline copper reinforced with carbon nanotubes. <i>Scientific Reports</i> , 2016, 6, 26258.	1.6	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.	2.3	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 1-13.	2.6	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.	2.3	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.	2.8	13
11	Fully dense B4C ceramics fabricated by spark plasma sintering at relatively low temperature. <i>Materials Research Express</i> , 2018, 5, 105201.	0.8	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.	2.3	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.	0.8	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 721, 61-64.	2.6	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 737, 90-93.	2.6	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.	1.2	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.	0.8	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.	0.8	3

#	ARTICLE	IF	CITATIONS
19	Influence of the sintering temperature on the microstructure, mechanical properties and densification characteristics of (TiB ₂ +TiC)/TC4 composite. Materials Research Express, 2021, 8, 126517.	0.8	2
20	Microstructure and mechanical properties of B ₄ C matrix composites sintered with (TiB ₂ +Al). Journal of Physics: Conference Series, 2020, 1676, 012046.	0.3	1
21	Microstructure and mechanical properties of B ₄ C ceramics by spark plasma sintering. Journal of Physics: Conference Series, 2020, 1676, 012084.	0.3	0