Jian Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2707541/publications.pdf Version: 2024-02-01



ΙΙΔΝΙ ΖΗΔΝΙΟ

#	Article	IF	CITATIONS
1	Additive manufacturing of functionally graded materials: A review. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 764, 138209.	5.6	309
2	An investigation on diffusion bonding of aluminum and magnesium using a Ni interlayer. Materials Letters, 2012, 83, 189-191.	2.6	90
3	Influence of particle size and spatial distribution of B4C reinforcement on the microstructure and mechanical behavior of precipitation strengthened Al alloy matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 675, 421-430.	5.6	89
4	Microstructure and mechanical properties of Al-7075/B4C composites fabricated by plasma activated sintering. Journal of Alloys and Compounds, 2014, 588, 265-270.	5.5	76
5	Thermal and electrical properties of W–Cu composite produced by activated sintering. Materials & Design, 2013, 46, 101-105.	5.1	67
6	Microstructure and bonding strength of diffusion welding of Mo/Cu joints with Ni interlayer. Materials & Design, 2012, 39, 81-86.	5.1	63
7	Uncovering the influence of common nonmetallic impurities on the stability and strength of a Σ5 (310) grain boundary in Cu. Acta Materialia, 2018, 148, 110-122.	7.9	63
8	Microstructure and mechanical properties of diffusion-bonded Mg–Al joints using silver film as interlayer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 868-874.	5.6	57
9	Effect of plasma activated sintering parameters on microstructure and mechanical properties of Al-7075/B 4 C composites. Journal of Alloys and Compounds, 2014, 615, 276-282.	5.5	55
10	Low-temperature densification and excellent thermal properties of W–Cu thermal-management composites prepared from copper-coated tungsten powders. Journal of Alloys and Compounds, 2014, 588, 49-52.	5.5	53
11	Phase transition, microstructure and mechanical properties of TC4 titanium alloy prepared by plasma activated sintering. Journal of Alloys and Compounds, 2018, 741, 918-926.	5.5	53
12	Microstructure evolution, mechanical properties and strengthening mechanism of refractory high-entropy alloy matrix composites with addition of TaC. Journal of Alloys and Compounds, 2019, 777, 1168-1175.	5.5	52
13	The mechanical properties of W–Cu composite by activated sintering. International Journal of Refractory Metals and Hard Materials, 2013, 36, 220-224.	3.8	48
14	Field assisted sintering of graphene reinforced zirconia ceramics. Ceramics International, 2015, 41, 6113-6116.	4.8	48
15	Microstructure and mechanical behavior of a novel Co20Ni20Fe20Al20Ti20 alloy fabricated by mechanical alloying and spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 10-16.	5.6	46
16	Effects of Zn additions on the solid-state sintering of W–Cu composites. Materials & Design, 2012, 36, 108-112.	5.1	45
17	Effect of Ni interlayer on strength and microstructure of diffusion-bonded Mo/Cu joints. Materials Letters, 2012, 66, 113-116.	2.6	45
18	Effect of Al thin film and Ni foil interlayer on diffusion bonded Mg–Al dissimilar joints. Journal of Alloys and Compounds, 2013, 556, 139-142.	5.5	45

#	Article	IF	CITATIONS
19	Microstructure and mechanical behaviors of the ultrafine grained AA7075/B4C composites synthesized via one-step consolidation. Journal of Alloys and Compounds, 2018, 748, 737-744.	5.5	44
20	Effect of silver interlayer on microstructure and mechanical properties of diffusion-bonded Mg–Al joints. Journal of Alloys and Compounds, 2012, 541, 458-461.	5.5	43
21	Synthesis and thermal conductivity improvement of W-Cu composites modified with WC interfacial layer. Materials and Design, 2017, 127, 233-242.	7.0	43
22	Effect of interface modification by Cu-coated W powders on the microstructure evolution and properties improvement for Cu–W composites. Surface and Coatings Technology, 2016, 288, 8-14.	4.8	42
23	Synthesis and compressive behaviors of PMMA microporous foam with multi-layer cell structure. Composites Part B: Engineering, 2019, 165, 272-278.	12.0	42
24	Microstructure and mechanical property of a novel ReMoTaW high-entropy alloy with high density. International Journal of Refractory Metals and Hard Materials, 2018, 77, 8-11.	3.8	41
25	Microstructure and thermal properties of diamond/copper composites with Mo2C in-situ nano-coating. Surface and Coatings Technology, 2019, 360, 376-381.	4.8	38
26	Effects of SiC particle size on CTEs of SiCp/Al composites by pulsed electric current sintering. Materials Chemistry and Physics, 2006, 99, 170-173.	4.0	36
27	Fabrication and mechanical behavior of bulk nanoporous Cu via chemical de-alloying of Cu–Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 660, 241-250.	5.6	36
28	Microstructure and mechanical behavior of AA2024/B4C composites with a network reinforcement architecture. Journal of Alloys and Compounds, 2017, 701, 554-561.	5.5	33
29	Densification and properties investigation of W-Cu composites prepared by electroless-plating and activated sintering. International Journal of Refractory Metals and Hard Materials, 2018, 71, 255-261.	3.8	32
30	Precipitation phenomena in Al-Zn-Mg alloy matrix composites reinforced with B4C particles. Scientific Reports, 2017, 7, 9589.	3.3	31
31	High-temperature ultra-strength of dual-phase Re0.5MoNbW(TaC)0.5 high-entropy alloy matrix composite. Journal of Materials Science and Technology, 2021, 84, 1-9.	10.7	30
32	Designing high entropy alloy-ceramic eutectic composites of MoNbRe0.5TaW(TiC)x with high compressive strength. Journal of Alloys and Compounds, 2020, 818, 152846.	5.5	28
33	Fabrication and microstructure of W-Cu composites prepared from Ag-coated Cu powders by electroless plating. Surface and Coatings Technology, 2019, 361, 302-307.	4.8	23
34	Influence of particulate B4C with high weight fraction on microstructure and mechanical behavior of an Al-based metal matrix composite. Journal of Alloys and Compounds, 2019, 789, 825-833.	5.5	21
35	Numerical simulation of static mechanical properties of PMMA microcellular foams. Composites Science and Technology, 2020, 192, 108110.	7.8	20
36	Microstructural evolution and mechanical behavior of W-Si-C multi-phase composite prepared by arc-melting. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 28-36.	5.6	19

#	Article	IF	CITATIONS
37	Synthesis of functionally graded AA7075-B4C composite with multi-level gradient structure. Ceramics International, 2019, 45, 7761-7766.	4.8	19
38	Low-temperature densification and microstructure of W–Cu composites with Sn additives. Journal of Materials Research and Technology, 2021, 10, 121-131.	5.8	19
39	Accelerated Bonding of Magnesium and Aluminum with a CuNi/Ag/CuNi Sandwich Interlayer by Plasma-Activated Sintering. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 631-636.	2.2	18
40	Microstructure and Compression Strength of W/HfC Composites Synthesized by Plasma Activated Sintering. Metals and Materials International, 2019, 25, 416-424.	3.4	17
41	Metal-carbide eutectics with multiprincipal elements make superrefractory alloys. Science Advances, 2022, 8, .	10.3	17
42	Interfacial segregation and precipitates behavior in the ultrafine grained Al-based metal matrix composites. Journal of Alloys and Compounds, 2019, 770, 625-630.	5.5	16
43	Correlation Between the Structure and Compressive Property of PMMA Microcellular Foams Fabricated by Supercritical CO2 Foaming Method. Polymers, 2020, 12, 315.	4.5	16
44	Characterization of diffusion-bonded joint between Al and Mg using a Ni interlayer. Rare Metals, 2016, 35, 537-542.	7.1	15
45	Fabrication and mechanical behavior of porous Cu via chemical de-alloying of Cu25Fe75 alloys. Journal of Alloys and Compounds, 2016, 689, 6-14.	5.5	15
46	Low-temperature diffusion bonding of W/Mo joints with a thin Cu interlayer. Journal of Materials Processing Technology, 2018, 262, 422-429.	6.3	15
47	Synthesis of AA7075-AA7075/B4C bilayer composite with enhanced mechanical strength via plasma activated sintering. Journal of Alloys and Compounds, 2017, 701, 416-424.	5.5	14
48	Effect of TMAH on the rheological behavior of alumina slurries for gelcasting. Journal of Asian Ceramic Societies, 2017, 5, 261-265.	2.3	14
49	Microstructure and Mechanical Behaviors of Titanium Matrix Composites Containing In Situ Whiskers Synthesized via Plasma Activated Sintering. Materials, 2018, 11, 544.	2.9	14
50	Microstructural, mechanical, and thermalâ€insulation properties of poly(methyl methacrylate)/silica aerogel bimodal cellular foams. Journal of Applied Polymer Science, 2017, 134, .	2.6	13
51	Improved parallelism of graded W–Cu–SiC materials by adjusting the coefficient of thermal expansion. Ceramics International, 2020, 46, 9714-9721.	4.8	13
52	Influence of in-situ synthesized Zr-Al-C on microstructure and toughening of ZrB2-SiC composite ceramics fabricated by spark plasma sintering. Ceramics International, 2017, 43, 13047-13054.	4.8	12
53	Influence of length-scale on stabilization of boron carbide in Al-based metal matrix composites during plasma activated sintering. Powder Technology, 2018, 339, 809-816.	4.2	12
54	Microstructure and strengthening mechanism of boride in-situ reinforced titanium matrix composites prepared by plasma activated sintering. Ceramics International, 2021, 47, 15910-15922.	4.8	12

#	Article	IF	CITATIONS
55	Microstructure and mechanical properties of MoNbW(TaC)x composites. International Journal of Refractory Metals and Hard Materials, 2021, 99, 105574.	3.8	12
56	Interfacial Microstructure and Mechanical Strength of 93W/Ta Diffusion-Bonded Joints with Ni Interlayer. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 602-605.	2.2	10
57	Study on preparation and property of porous tungsten via tape-casting. International Journal of Refractory Metals and Hard Materials, 2017, 69, 27-30.	3.8	9
58	Microstructure, mechanical properties and reinforcement mechanism of dual-scale TC4 titanium alloy prepared by cryomilling and plasma activated sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 736, 120-129.	5.6	9
59	Synergetic effect of Re alloying and SiC addition on strength and toughness of tungsten. Journal of Alloys and Compounds, 2018, 767, 1064-1071.	5.5	9
60	Microstructure and mechanical properties investigation of W Cu composites prepared from dual-layer coated powders. Applied Surface Science, 2020, 516, 146098.	6.1	9
61	Achieving porous tungsten with high porosity by selective dissolution of W-Fe alloy. Scripta Materialia, 2021, 198, 113830.	5.2	9
62	Experimental and atomic observations of phase transformations in shock-compressed single-crystal Fe. Materialia, 2021, 20, 101200.	2.7	9
63	Influence of Cr removal on the microstructure and mechanical behaviour of a high-entropy Al _{0.8} Ti _{0.2} CoNiFeCr alloy fabricated by powder metallurgy. Powder Metallurgy, 2018, 61, 106-114.	1.7	8
64	Compressive response of <scp>PMMA</scp> microcellular foams at low and high strain rates. Journal of Applied Polymer Science, 2018, 135, 46044.	2.6	8
65	Design and Synthesis of C-O Grain Boundary Strengthening of Al Composites. Nanomaterials, 2020, 10, 438.	4.1	8
66	Effect of Ni content in Cu1-Ni coating on microstructure evolution and mechanical properties of W/Mo joint via low-temperature diffusion bonding. Journal of Materials Science and Technology, 2020, 54, 171-180.	10.7	8
67	Study on Rheological Behavior of Micro/Nano-Silicon Carbide Particles in Ethanol by Selecting Efficient Dispersants. Materials, 2020, 13, 1496.	2.9	8
68	Microstructural evolution and mechanical behavior of porous W reinforced by in-situ W2C. Journal of Alloys and Compounds, 2019, 797, 1106-1114.	5.5	7
69	Microstructure and mechanical properties of HfC reinforced W matrix composites regulated by trace Zr. International Journal of Refractory Metals and Hard Materials, 2020, 86, 105096.	3.8	7
70	Towards homogeneous distribution of coarse grain in a tri-modal Al-based composites utilizing localized grain growth. Powder Technology, 2020, 366, 107-111.	4.2	7
71	Effect of Cu interlayer on joining 93W and Mo1 alloys by plasma activated sintering. Materials Letters, 2017, 201, 89-92.	2.6	6
72	Preparation and properties of W-SiC/Cu composites by tape casting and hot-pressing sintering. Materials Science and Technology, 2018, 34, 1353-1361.	1.6	6

Jian Zhang

#	Article	IF	CITATIONS
73	A Review on Mechanical Models for Cellular Media: Investigation on Material Characterization and Numerical Simulation. Polymers, 2021, 13, 3283.	4.5	6
74	Corrosion behaviour of AlN ceramics in LiF-LiCl-LiBr-Li molten salt at 500 °C. Corrosion Science, 2021, 190, 109672.	6.6	6
75	Microstructure evolution and interfacial bonding mechanisms of ultrasonically soldered sapphire/Al dissimilar joints using Sn-based solders. Ceramics International, 2022, 48, 20070-20077.	4.8	6
76	Preparation and microstructure of porous ZrB2 ceramics using reactive spark plasma sintering method. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 512-515.	1.0	5
77	Microstructure and Thermal Conductivity of Carbon Nanotube Reinforced Cu Composites. Journal of Nanoscience and Nanotechnology, 2017, 17, 2447-2452.	0.9	5
78	Mechanical, electrical and thermal properties at elevated temperature of W-Si-C multi-phase composite prepared by arc-melting. International Journal of Refractory Metals and Hard Materials, 2018, 75, 101-106.	3.8	5
79	Enhanced electrical and magnetic properties of post-annealed plasma-activated-sintered La2CoMnO6 ceramics. Ceramics International, 2019, 45, 20855-20859.	4.8	5
80	Eutectic-like composite of MoNbWTaC with outstanding strength and plasticity at elevated temperature. Materials Letters, 2021, 304, 130739.	2.6	5
81	Interfacial microstructure and strengthening mechanism in Ti–6Al–4V reinforced Al-7075 alloy. Materials Science and Technology, 2018, 34, 199-208.	1.6	4
82	In Situ Preparation and Corrosion Resistance of a ZrO2 Film on a ZrB2 Ceramic. Coatings, 2019, 9, 455.	2.6	4
83	Investigation of the Constitutive Model of W/PMMA Composite Microcellular Foams. Polymers, 2019, 11, 1136.	4.5	4
84	Effects of silica aerogel content on microstructural and mechanical properties of poly(methyl) Tj ETQq0 0 0 rgBT Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 750-756.	/Overlock 1.0	2 10 Tf 50 307 3
85	In-situ passivation reaction for synthesis of a uniform ZrO2-coated ZrB2 powder in alkaline hydrothermal solution. Surface and Coatings Technology, 2020, 385, 125385.	4.8	3
86	Structure Characterization and Impact Effect of Al-Cu Graded Materials Prepared by Tape Casting. Materials, 2022, 15, 4834.	2.9	3
87	Microstructural characterization of the Mg/Cu/Al diffusion bonded joint. Journal of Physics: Conference Series, 2013, 419, 012021.	0.4	2
88	Microstructure of Diffusion-Bonded Mg-Ag-Al Multilayer Composite Materials. Journal of Physics: Conference Series, 2013, 419, 012023.	0.4	2
89	Influence of Effective Physical Contact Area on Microstructure and Mechanical Properties of Diffusion-Bonded TC4/1060Al Joints. Journal of Materials Engineering and Performance, 2019, 28, 1226-1234.	2.5	2
90	Densification and Structure Evolution of ZrB2-ZrO2 Composites Prepared by Plasma Activated Sintering using ZrB2@ZrO2 Powder. Journal Wuhan University of Technology, Materials Science Edition, 2021, 36, 215-222.	1.0	2

#	Article	IF	CITATIONS
91	Effect of Ni foam addition on the microstructure and mechanical properties of In–48Sn eutectic alloy. Journal of Materials Science: Materials in Electronics, 2022, 33, 12594-12603.	2.2	2
92	Effect of initial temperature on impact-induced spalling behavior in single-crystal aluminum studied by molecular dynamics simulations. AIP Advances, 2022, 12, 055123.	1.3	2
93	Hierarchical Fe6W6C enabling ultra-strong porous tungsten. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 849, 143466.	5.6	2
94	The microanalysis of copper-coated diamond composite powders prepared by electroless plating. , 2016, , .		1
95	Activated sintering and thermal properties of 1 wt. %Ag-W/Cu thermal-management composites. , 2016, , \cdot		1
96	Hot-Press Sintering of the W-40wt.%Cu Composite Tape-Casting Film. Key Engineering Materials, 2017, 727, 966-971.	0.4	1
97	<i>In Situ</i> Synthesis of Size-Controlled Silver/Poly(Methyl Methacrylate) Nanocomposite. Key Engineering Materials, 0, 727, 514-518.	0.4	1
98	Role of Liquid-Phase Amount in Ceramization of Silicone Rubber Composites and Its Controlling. Materials, 2022, 15, 3675.	2.9	1
99	Study on Microstructure and Property of Diffusion-Bonded Mo-Cu Joints. Key Engineering Materials, 2012, 508, 178-182.	0.4	0
100	Diffusion Mechanism and Kinetics of Diffusion Bonded Mg/Ni/Al Joint. Key Engineering Materials, 0, 616, 286-290.	0.4	0
101	Facile Fabrication and Enhanced Performances of Epoxy Resin-modified MTMS System Multifunctional Graded Coating. Chemistry Letters, 2016, 45, 1000-1002.	1.3	0
102	Effect of Diffusion-Temperature on Microstructure and Mechanical Properties of Diffusion-Bonded TC4/Al Thin Film/1060 Al Joints. Key Engineering Materials, 2017, 727, 972-976.	0.4	0
103	Resistance Spot Welding Process and Properties of Hot Dip Galvanized DP590 High Strength Steel. Lecture Notes in Mechanical Engineering, 2018, , 743-749.	0.4	0
104	Effect of SiC Additions on Microstructure Evolution and Mechanical Properties of W-Based Composite Prepared by Arc-Melting. Materials Science Forum, 0, 944, 531-536.	0.3	0
105	Effect of Ni interlayer on diffusion bonding of a W alloy and a Ta alloy. Materialpruefung/Materials Testing, 2017, 59, 744-748.	2.2	0
106	Numerical Simulation and Experimental Investigation of SiC/Ti-6Al-4V Metal Matrix Composites Produced by Laser Melt Injection. Coatings, 2022, 12, 808.	2.6	0
107	Numerical simulation of polymethylâ€methacrylate supercritical fluid foaming process: Bubble growth dynamics. Journal of Applied Polymer Science, 0, , .	2.6	0