

Jingpei Xie

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of Aging Temperature on the Mechanical Properties and Precipitation Behavior of a Pre-strained Al-Cu-Mg-Ag Alloy. <i>Metals and Materials International</i> , 2023, 29, 293-302.	3.4	1
2	Molecular dynamics study of deformation mechanism of interfacial microzone of Cu/Al ₂ Cu/Al composites under tension. <i>Nanotechnology Reviews</i> , 2022, 11, 1158-1166.	5.8	6
3	Design and Fabrication of a 5Ti5Zr5Nb1Sn High-Entropy Alloy as Metallic Biomedical Material. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	1
4	Vacancy-mediated effects for simultaneously enhancing the Cu/graphene/Al interfacial bonding strength and thermal conductance: a first-principles study. <i>Journal of Materials Science</i> , 2021, 56, 5697-5707.	3.7	8
5	Second phase structure analysis and wear behavior of the ultra-high manganese steel. <i>Materials Research Express</i> , 2021, 8, 076504.	1.6	1
6	Effect of CeO ₂ Content on Microstructure and Properties of SiCp/Al-Si Composites Prepared by Powder Metallurgy. <i>Materials</i> , 2021, 14, 4685.	2.9	1
7	Effects of Transition Element Additions on the Interfacial Interaction and Electronic Structure of Al(111)/6H-SiC(0001) Interface: A First-Principles Study. <i>Materials</i> , 2021, 14, 630.	2.9	8
8	Calculating Study on Properties of Al (111)/6H-SiC (0001) Interfaces. <i>Metals</i> , 2020, 10, 1197.	2.3	8
9	Effects of CeO ₂ on the Si Precipitation Mechanism of SiCp/Al-Si Composite Prepared by Powder Metallurgy. <i>Materials</i> , 2020, 13, 4365.	2.9	1
10	Hot-Deformation Behavior and Microstructure Evolution of the Dual-Scale SiCp/A356 Composites Based on Optimal Hot-Processing Parameters. <i>Materials</i> , 2020, 13, 2825.	2.9	3
11	Effects of CeO ₂ Content on Friction and Wear Properties of SiCp/Al-Si Composite Prepared by Powder Metallurgy. <i>Materials</i> , 2020, 13, 4547.	2.9	3
12	Effects of annealing temperature on the interfacial microstructure and bonding strength of Cu/Al clad sheets produced by twin-roll casting and rolling. <i>Journal of Materials Processing Technology</i> , 2020, 285, 116804.	6.3	32
13	Hot Deformation Behavior and Strain-Compensated Constitutive Equation of Nano-Sized SiC Particle-Reinforced Al-Si Matrix Composites. <i>Materials</i> , 2020, 13, 1812.	2.9	10
14	Nanofriction oscillation driven by sublayer indirect contact of silicon tip sliding on few-layer graphene. <i>AIP Advances</i> , 2019, 9, 055023.	1.3	0
15	First-principle calculations on the structure of 6H-SiC/Al interface. <i>Materials Research Express</i> , 2019, 6, 065015.	1.6	5
16	Effects of Bottom Layer Sputtering Pressures and Annealing Temperatures on the Microstructures, Electrical and Optical Properties of Mo Bilayer Films Deposited by RF/DC Magnetron Sputtering. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1395.	2.5	4
17	Electronic and mechanical properties of Al (100)/6H-SiC (0001) interfaces: a first-principles study. <i>Materials Research Express</i> , 2019, 6, 126316.	1.6	3
18	Effect of Graphene Oxide Concentration in Electrolyte on Corrosion Behavior of Electrodeposited Zn-Electrochemical Reduction Graphene Composite Coatings. <i>Coatings</i> , 2019, 9, 758.	2.6	13

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19	Interfacial microstructure and bonding strength of copper/aluminum clad sheets produced by horizontal twin-roll casting and annealing. <i>Materials Research Express</i> , 2019, 6, 016505.	1.6	7
20	Effects of vacancies at Al(111)/6H-SiC(0001) interfaces on deformation behavior: A first-principle study. <i>Computational Materials Science</i> , 2019, 158, 110-116.	3.0	16
21	First-principles study of the structure properties of Al(111)/6H-SiC(0001) interfaces. <i>Surface Science</i> , 2018, 670, 1-7.	1.9	16
22	Effect of Deformation Temperature, Strain Rate and Strain on the Strain Hardening Exponent of Copper/Aluminum Laminated Composites. <i>Advanced Composites Letters</i> , 2018, 27, 096369351802700.	1.3	4
23	Effects of thickness ratios and sputtering mode on the structural, electrical and optical properties of bilayer molybdenum thin films. <i>AIP Advances</i> , 2018, 8, 095028.	1.3	4
24	Study on Interface Structure of Cu/Al Clad Plates by Roll Casting. <i>Metals</i> , 2018, 8, 770.	2.3	11
25	Interfacial Characterization and Bonding Properties of Copper/Aluminum Clad Sheets Processed by Horizontal Twin-Roll Casting, Multi-Pass Rolling, and Annealing. <i>Metals</i> , 2018, 8, 645.	2.3	13
26	Effects of Heating Mode and Temperature on the Microstructures, Electrical and Optical Properties of Molybdenum Thin Films. <i>Materials</i> , 2018, 11, 1634.	2.9	13
27	Contact resistance and arc erosion of tungsten-copper contacts in direct currents. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 816-822.	1.0	8
28	Effect of heat treatment on microstructure and mechanical properties of SiCp/2024 aluminum matrix composite. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 1229-1233.	1.0	10
29	Effect of consolidation parameters and heat treatment on microstructures and mechanical properties of SiCp/2024 Al composites. <i>Science and Engineering of Composite Materials</i> , 2015, 22, .	1.4	2
30	Dynamic recrystallization model of 30%SiCp/Al composite. <i>Journal of Alloys and Compounds</i> , 2015, 649, 865-871.	5.5	26
31	Thermal expansion and mechanical properties of middle reinforcement content SiCp/Al composites fabricated by PM technology. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 660-664.	1.0	10
32	Preparation, Properties and Microstructure of SiC Particle Reinforced Al–Si Matrix Composite. <i>Materials Transactions</i> , 2014, 55, 750-753.	1.2	3
33	Tensile properties and strengthening mechanisms of SiCp-reinforced aluminum matrix composites as a function of relative particle size ratio. <i>Journal of Materials Research</i> , 2013, 28, 2047-2055.	2.6	16
34	Effect of cooling rate on the microstructure of ZA48 alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 811-813.	1.0	0
35	The computer solidification simulation of the end cover of large ball mill. , 2006, , .		0