

Jieshi Chen

List of Publications by Year in descending order

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28
papers

450
citations

687363

13
h-index

752698

20
g-index

29
all docs

29
docs citations

29
times ranked

249
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of solder thickness on interface behavior and nanoindentation characteristics in Cu/Sn/Cu microbumps. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 973-983.	2.5	46
2	The Zn accumulation behavior, phase evolution and void formation in Sn-xZn/Cu systems by considering trace Zn: a combined experimental and theoretical study. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4141-4150.	5.8	43
3	Effects of doping trace Ni element on interfacial behavior of Sn/Ni (polycrystal/single-crystal) joints. <i>Soldering and Surface Mount Technology</i> , 2022, 34, 124-133.	1.5	38
4	Fracture Morphologies of Advanced High Strength Steel During Deformation. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014, 27, 101-106.	2.9	31
5	A review on the effect of laser pulse shaping on the microstructure and hot cracking behavior in the welding of alloys. <i>Optics and Laser Technology</i> , 2021, 140, 107094.	4.6	28
6	Optimization of hot stamping cooling system using segmented model. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 1357-1365.	3.0	26
7	Effect of substrates on the formation of Kirkendall voids in Sn/Cu joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 751-757.	2.5	23
8	Effect of boron on the structural stability, mechanical properties, and electronic structures of β -Ni ₃ Al in TLP joints of nickel-based single-crystal alloys. <i>Materials Today Communications</i> , 2022, 31, 103375.	1.9	22
9	Multi-scale simulation of nanoindentation on cast Inconel 718 and NbC precipitate for mechanical properties prediction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 662, 385-394.	5.6	21
10	Diode Laser Welding/Brazing of Aluminum Alloy to Steel Using a Nickel Coating. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 922.	2.5	19
11	Electronic and mechanical properties of monocrystalline silicon doped with trace content of N or P: A first-principles study. <i>Solid State Sciences</i> , 2021, 120, 106723.	3.2	19
12	Forming mechanism and growth of Kirkendall voids of Sn/Cu joints for electronic packaging: A recent review. <i>Journal of Advanced Joining Processes</i> , 2022, 6, 100125.	2.7	16
13	Weld penetration in situ prediction from keyhole dynamic behavior under time-varying VPPAW pools via the OS-ELM model. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 3929-3941.	3.0	15
14	Interface Growth and Void Formation in Sn/Cu and Sn0.7Cu/Cu Systems. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2703.	2.5	13
15	Phase stability, elasticity, hardness and electronic structures for binary M _n B _m (M = Ni, Ti) Phase Transitions, 2020, 93, 158-174.	1.3	13
16	Study of curvature and pre-damage effects on the edge stretchability of advanced high strength steel based on a new simulation model. <i>International Journal of Material Forming</i> , 2016, 9, 269-276.	2.0	12
17	Interfacial transfer and phase evolution between Cu and Sn solder doped with minor Cu, Ag and Ni: experimental and theoretical investigations. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	12
18	Effects of additive elements on structural and electronic properties of Sn-based intermetallics by first principles. <i>Materials Research Express</i> , 2014, 1, 025702.	1.6	10

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19	Systematically investigate mechanical and electrical properties of Bi ₂ O ₂ Se by Te atom substitution and compare it with homologue Bi ₂ O ₂ Te from first-principles calculations. <i>Materials Today Communications</i> , 2020, 24, 101182.	1.9	9
20	Effects of Co dopant on the mechanical and magnetic properties of Cr ₂₃ C ₆ by using first principles calculation. <i>Journal of Alloys and Compounds</i> , 2019, 804, 538-548.	5.5	6
21	Effect of crystal structure of nickel substrates on interfacial behaviors in Sn/Ni soldered joints. <i>Materials Letters</i> , 2020, 278, 128424.	2.6	6
22	Phase stability, brittle-ductile transition, and electronic structures of the TiAl alloying with Fe, Ru, Ge, and Sn: a first-principle investigation. <i>Journal of Molecular Modeling</i> , 2020, 26, 320.	1.8	6
23	Forming Limit Evaluation for AA5182 Aluminum Alloy at Warm Temperatures Based on M ² K Model. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1176-1184.	2.5	5
24	Microstructure and mechanical properties of rhenium and GH3128 superalloy dissimilar welded joints by electron beam welding. <i>Materials Research Express</i> , 2021, 8, 056512.	1.6	4
25	A new method to reliably determine elastic strain of various crystal structures from atomic-resolution images. <i>Scientific Reports</i> , 2019, 9, 16399.	3.3	3
26	Effect of solution treatment on the microstructure of dissimilar welding joints of Ta-10W and GH3128. <i>Materials Research Express</i> , 2021, 8, 066527.	1.6	2
27	Structural stability, elasticity, thermodynamics, and electronic structures of L12-type Ni ₃ X (X = Al, Ti, V). <i>Journal of Materials Research</i> , 2021, 32, 107843.	1.8	2
28	Effects of the beam offset on microstructure and properties of electron beam welded tantalum and Inconel 718 joints. <i>Materials Research Express</i> , 2021, 8, 046537.	1.6	0