

Chao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

388
citations

933447

10
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794594

19
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23
all docs

23
docs citations

23
times ranked

261
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of parameters in laser powder deposition AlSi10Mg alloy using Taguchi method. Optics and Laser Technology, 2019, 111, 470-480.	4.6	76
2	The effects of micron WC contents on the microstructure and mechanical properties of ultrafine WC (micron WC-Co) cemented carbides. Journal of Alloys and Compounds, 2014, 594, 76-81.	5.5	53
3	Microstructure and properties of Ti/Al lightweight graded material by direct laser deposition. Materials Science and Technology, 2018, 34, 945-951.	1.6	39
4	Microstructures and mechanical properties of AZ31 magnesium alloys fabricated via vacuum hot-press sintering. Journal of Alloys and Compounds, 2021, 870, 159473.	5.5	28
5	Effect of aging treatment on microstructure, mechanical and corrosion properties of 7055 aluminum alloy prepared using powder by-product. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 822, 141606.	5.6	27
6	Microstructure and wear resistance of compositionally graded Ti Al intermetallic coating on Ti6Al4V alloy fabricated by laser powder deposition. Surface and Coatings Technology, 2018, 353, 32-40.	4.8	26
7	Microstructure and mechanical properties of powder metallurgy 2024 aluminum alloy during cold rolling. Journal of Materials Research and Technology, 2021, 15, 3337-3348.	5.8	24
8	Investigation on microstructure, mechanical properties and fracture mechanism of Mg/Al laminated composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143410.	5.6	21
9	The mechanical properties and formation mechanism of Al/Mg composite interface prepared by spark plasma sintering under different sintering pressures. Vacuum, 2020, 176, 109300.	3.5	16
10	Microstructure, mechanical properties and deformation mechanism of powder metallurgy AZ31 magnesium alloy during rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 844, 143042.	5.6	15
11	Microstructure and tensile properties of aluminum powder metallurgy alloy prepared by a novel low-pressure sintering. Journal of Materials Research and Technology, 2021, 14, 1419-1429.	5.8	13
12	The coupling effect of vacuum, pressure and temperature on microstructure and mechanical properties of PM aluminum alloy. Vacuum, 2022, 196, 110728.	3.5	10
13	Microstructure and mechanical properties of 7055 Al alloy prepared under different sintering conditions using powder by-products. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140562.	5.6	9
14	Laser Powder Deposition Parametric Optimization and Property Development for Ti-6Al-4V Alloy. Journal of Materials Engineering and Performance, 2018, 27, 5613-5621.	2.5	8
15	Influence of 1/4-size WC on the Corrosion Behavior of Ultrafine WC/WC-Co Cemented Carbides. Journal of Superhard Materials, 2019, 41, 334-344.	1.2	5
16	Effects of Heat Treatment on the Microstructure and Properties of Graded-Density Powder Aluminum Alloys. Metal Science and Heat Treatment, 2022, 63, 590-598.	0.6	5
17	Novel approach for fabrication and characterisation of porosity-graded material. Materials Science and Technology, 2019, 35, 1583-1591.	1.6	4
18	Effect of Second Phase on the Pitting Corrosion of ZL101A Aluminum Alloy in Thin Electrolyte Layer Environment Containing Cl. Arabian Journal for Science and Engineering, 2022, 47, 13857-13872.	3.0	4

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19	New method for preparing micron porous aluminium via powder metallurgy. <i>Materials Science and Technology</i> , 2018, 34, 1295-1302.	1.6	3
20	Effect of Sodium Tungstate on the Microstructure and Properties of Micro-Arc Oxidized Coatings Formed on 2A12 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 7741-7751.	2.5	2
21	Effects of CeO ₂ on the microstructure and properties of 2A12 porous aluminum. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	0
22	Microstructure and Mechanical Properties of 7055 Al Alloy Prepared by Hot-Press Sintering of Powder Byproduct and Optimization of Sintering Parameters. <i>Jom</i> , 2021, 73, 2615-2624.	1.9	0
23	Focusing on the relationship between the precipitated phases and the pitting corrosion of ZL101A aluminum alloy. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 045047.	1.6	0