

# Chao Liu

## List of Publications by Year in descending order

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23  
papers

388  
citations

933447

10  
h-index

794594

19  
g-index

23  
all docs

23  
docs citations

23  
times ranked

261  
citing authors

#	ARTICLE	IF	CITATIONS
1	The coupling effect of vacuum, pressure and temperature on microstructure and mechanical properties of PM aluminum alloy. <i>Vacuum</i> , 2022, 196, 110728.	3.5	10
2	Effect of Second Phase on the Pitting Corrosion of ZL101A Aluminum Alloy in Thin Electrolyte Layer Environment Containing Cl. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 13857-13872.	3.0	4
3	Microstructure, mechanical properties and deformation mechanism of powder metallurgy AZ31 magnesium alloy during rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 844, 143042.	5.6	15
4	Effects of Heat Treatment on the Microstructure and Properties of Graded-Density Powder Aluminum Alloys. <i>Metal Science and Heat Treatment</i> , 2022, 63, 590-598.	0.6	5
5	Investigation on microstructure, mechanical properties and fracture mechanism of Mg/Al laminated composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143410.	5.6	21
6	Microstructure and mechanical properties of 7055 Al alloy prepared under different sintering conditions using powder by-products. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 805, 140562.	5.6	9
7	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
8	Microstructures and mechanical properties of AZ31 magnesium alloys fabricated via vacuum hot-press sintering. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159473.	5.5	28
9	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
10	Effect of aging treatment on microstructure, mechanical and corrosion properties of 7055 aluminum alloy prepared using powder by-product. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 822, 141606.	5.6	27
11	Microstructure and tensile properties of aluminum powder metallurgy alloy prepared by a novel low-pressure sintering. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1419-1429.	5.8	13
12	Microstructure and mechanical properties of powder metallurgy 2024 aluminum alloy during cold rolling. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3337-3348.	5.8	24
13	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
14	The mechanical properties and formation mechanism of Al/Mg composite interface prepared by spark plasma sintering under different sintering pressures. <i>Vacuum</i> , 2020, 176, 109300.	3.5	16
15	Novel approach for fabrication and characterisation of porosity-graded material. <i>Materials Science and Technology</i> , 2019, 35, 1583-1591.	1.6	4
16	Influence of 1/4-size WC on the Corrosion Behavior of Ultrafine WC/WC-Co Cemented Carbides. <i>Journal of Superhard Materials</i> , 2019, 41, 334-344.	1.2	5
17	Effects of CeO <sub>2</sub> on the microstructure and properties of 2A12 porous aluminum. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	0
18	Optimization of parameters in laser powder deposition AlSi10Mg alloy using Taguchi method. <i>Optics and Laser Technology</i> , 2019, 111, 470-480.	4.6	76

#	ARTICLE	IF	CITATIONS
19	New method for preparing micron porous aluminium via powder metallurgy. Materials Science and Technology, 2018, 34, 1295-1302.	1.6	3
20	Microstructure and properties of Ti/Al lightweight graded material by direct laser deposition. Materials Science and Technology, 2018, 34, 945-951.	1.6	39
21	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
22	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
23	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