

Dianwu Zhou

List of Publications by Year in descending order

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34
papers

692
citations

759055

12
h-index

552653

26
g-index

34
all docs

34
docs citations

34
times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	Stacking fault energy and ductility in a new zirconium alloys: A combined experimental and first-principles study. <i>Computational Materials Science</i> , 2022, 202, 110974.	1.4	1
2	Effect of beam oscillation on intermetallic compounds and mechanical properties of steel/aluminum laser welded joint. <i>Journal of Manufacturing Processes</i> , 2022, 73, 40-53.	2.8	8
3	Hybrid joining mechanism of rivet plug oscillating laser welding for dual-phase steel and magnesium alloy. <i>Journal of Manufacturing Processes</i> , 2022, 77, 652-664.	2.8	5
4	Influence of laser-Sn powder coupling on microstructure and mechanical properties of fusion welded AZ31B-alloy to DP590-steel. <i>Optics and Laser Technology</i> , 2022, 152, 108091.	2.2	7
5	Improvement of laser welded joint properties of AZ31B magnesium alloy to DP590 dual-phase steel produced by external magnetic field. <i>Journal of Manufacturing Processes</i> , 2022, 79, 270-283.	2.8	11
6	Numerical and experimental investigation of magnesium/aluminum laser welding with magnetic field. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 545-559.	1.5	9
7	Effect of laser-Ti foil coupling on microstructure and mechanical property of steel/aluminum fusion welding joints. <i>Optics and Laser Technology</i> , 2021, 141, 107114.	2.2	8
8	Microstructure and mechanical properties of laser welding of AZ31B magnesium alloy and DP590 dual-phase steel with concave groove joint. <i>Journal of Manufacturing Processes</i> , 2021, 72, 227-239.	2.8	9
9	Improving compactness and reaction kinetics of MoS ₂ @C anodes by introducing Fe ₉ S ₁₀ core for superior volumetric sodium/potassium storage. <i>Energy Storage Materials</i> , 2020, 24, 208-219.	9.5	140
10	Effect of Ti foil on microstructure and mechanical properties of laser fusion welding of DP590 dual-phase steel to 6022 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 139929.	2.6	13
11	Boosting the Potassium-Ion Storage Performance in Soft Carbon Anodes by the Synergistic Effect of Optimized Molten Salt Medium and N/S Dual-Doping. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20838-20848.	4.0	88
12	Microstructure and Mechanical Properties of Adding Adhesive-Layer Laser-Welded Joints of DP590 Dual-Phase Steel and 6061 Aluminum Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 3295-3304.	0.7	2
13	Effects of Sn-foil addition on the microstructure and mechanical properties of laser welding joint for dual phase steel and magnesium alloy. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	4
14	Improving the cycle stability of FeCl ₃ -graphite intercalation compounds by polar Fe ₂ O ₃ trapping in lithium-ion batteries. <i>Nano Research</i> , 2019, 12, 1836-1844.	5.8	35
15	Periodic root humps in thick-plate laser welding using steady electromagnetic force. <i>Journal of Materials Processing Technology</i> , 2019, 273, 116247.	3.1	12
16	FeCl ₃ Intercalated Microcrystalline Graphite Enables High Volumetric Capacity and Good Cycle Stability for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1801091.	1.8	20
17	Investigation on the microscopic mechanism of potassium permanganate modification and the properties of ramie fiber/polypropylene composites. <i>Polymer Composites</i> , 2018, 39, 3353-3362.	2.3	20
18	Microscopic mechanism of amino silicone oil modification and modification effect with different amino group contents based on molecular dynamics simulation. <i>Applied Surface Science</i> , 2018, 440, 331-340.	3.1	9

#	ARTICLE	IF	CITATIONS
19	Microstructure and Mechanical Properties of Deep Penetration Laser Welding Joints in Steel/Aluminum with Si Powder Addition. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2018, 54, 58.	0.7	4
20	Microstructure, mechanical properties, and electronic simulations of steel/aluminum alloy joint during deep penetration laser welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 377-387.	1.5	9
21	Synergetic Effects toward Catalysis and Confinement of Magnesium Hydride on Modified Graphene: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18401-18411.	1.5	13
22	Research on laser weld bonding of dual phase steel to aluminium alloy. <i>International Journal of Manufacturing Research</i> , 2016, 11, 209.	0.1	2
23	Laser lap welding quality of steel/aluminum dissimilar metal joint and its electronic simulations. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 2231-2242.	1.5	11
24	Analysis of the Adhesive Layer of Laser Weld Bonding Joints in Dual Phase Steel/ Aluminum Alloy. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2016, 52, 25.	0.7	5
25	Effects of amino silicone oil modification on properties of ramie fiber and ramie fiber/polypropylene composites. <i>Materials & Design</i> , 2015, 77, 142-148.	5.1	50
26	First-principles investigation of the binary intermetallics in Mg-Al-Sr alloy: Stability, elastic properties and electronic structure. <i>Computational Materials Science</i> , 2014, 86, 24-29.	1.4	36
27	MICROSTRUCTURE AND MECHANICAL PROPERTY OF STEEL/Al ALLOY LASER WELDING WITH Sn POWDER ADDITION. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2013, 49, 959.	0.3	5
28	Thermal stability and elastic properties of Mg ₂ X (X = Si, Ge, Sn, Pb) phases from first-principle calculations. <i>Computational Materials Science</i> , 2012, 51, 409-414.	1.4	86
29	First-Principles Calculation on Dehydrogenating Properties of LiBH ₄ -X (X = 1/4 O, F, Cl) Systems. <i>Acta Chimica Sinica</i> , 2012, 70, 71.	0.5	2
30	FIRST-PRINCIPLES CALCULATIONS OF STRUCTURAL STABILITIES AND ELASTIC PROPERTIES OF AB ₂ TYPE INTERMETALLICS IN ZA62 MAGNESIUM ALLOY. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2010, 2010, 97-103.	0.3	10
31	Study on hydrogen atom adsorption and diffusion properties on Mg (0001) surface. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1897-1905.	0.9	12
32	Study on H atoms diffusion and adsorption properties of MgH ₂ -V systems. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 979-988.	0.9	3
33	First-principles calculation of dehydrogenating properties of MgH ₂ -V systems. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 129-136.	0.9	42
34	Effect of Pre-straining and Subsequent Annealing on Microstructure and Mechanical Property of Zr-Sn-Nb-Fe Zirconium Alloy. <i>Metals and Materials International</i> , 0, , 1.	1.8	1