

Zhengying Wei

List of Publications by Year in descending order

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49
papers

548
citations

759233

12
h-index

677142

22
g-index

49
all docs

49
docs citations

49
times ranked

620
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal behavior in single track during selective laser melting of AlSi10Mg powder. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	66
2	Free-face-Assisted Rock Breaking Method Based on the Multi-stage Tunnel Boring Machine (TBM) Cutterhead. Rock Mechanics and Rock Engineering, 2016, 49, 4459-4472.	5.4	53
3	Numerical and experimental study on hydraulic performance of emitters with arc labyrinth channels. Computers and Electronics in Agriculture, 2007, 56, 120-129.	7.7	42
4	Thermal dynamic behavior during selective laser melting of K418 superalloy: numerical simulation and experimental verification. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	42
5	Forming and defect analysis for single track scanning in selective laser melting of Ti6Al4V. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	40
6	Doping Ag in ZnO Nanorods to Improve the Performance of Related Enzymatic Glucose Sensors. Sensors, 2017, 17, 2214.	3.8	28
7	Depositing reduced graphene oxide on ZnO nanorods to improve the performance of enzymatic glucose sensors. Materials Science in Semiconductor Processing, 2021, 121, 105391.	4.0	27
8	Experimental Research on Selective Laser Melting AlSi10Mg Alloys: Process, Densification and Performance. Journal of Materials Engineering and Performance, 2017, 26, 5897-5905.	2.5	22
9	The fusion process of successive droplets impinging onto a substrate surface. Applied Physics A: Materials Science and Processing, 2015, 120, 35-42.	2.3	19
10	Densification, Microstructure and Properties of 90W-7Ni-3Fe Fabricated by Selective Laser Melting. Metals, 2019, 9, 884.	2.3	18
11	Effects of the slip surface on the tribological performances of high-speed hybrid journal bearings. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2016, 230, 1149-1156.	1.8	14
12	Numerical analysis of arc driving forces and temperature distribution in pulsed TIG welding. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	14
13	A novel high-efficiency methodology for metal additive manufacturing. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	13
14	Effects of membrane deformability and bond formation/dissociation rates on adhesion dynamics of a spherical capsule in shear flow. Biomechanics and Modeling in Mechanobiology, 2018, 17, 223-234.	2.8	12
15	Numerical Investigation of Pileup Process in Metal Microdroplet Deposition Manufacture. Micromachines, 2014, 5, 1429-1444.	2.9	11
16	Laser Powder Bed Fusion of Pure Tungsten: Effects of Process Parameters on Morphology, Densification, Microstructure. Materials, 2021, 14, 165.	2.9	10
17	CFD-DEM combined the fictitious domain method with monte carlo method for studying particle sediment in fluid. Particulate Science and Technology, 2018, 36, 920-933.	2.1	9
18	An all-solid-state NO ₃ ⁻ ion-selective electrode with gold nanoparticles solid contact layer and molecularly imprinted polymer membrane. PLoS ONE, 2020, 15, e0240173.	2.5	8

#	ARTICLE	IF	CITATIONS
19	High-Sensitivity Enzymatic Glucose Sensor Based on ZnO Urchin-like Nanostructure Modified with Fe ₃ O ₄ Magnetic Particles. <i>Micromachines</i> , 2021, 12, 977.	2.9	8
20	Soybean protein hydrolysate-formaldehyde-urea block copolymer for controlled release fertilizer. <i>Environmental Pollutants and Bioavailability</i> , 2019, 31, 94-102.	3.0	7
21	Research on interlayer remelting process of multi-layer forming by metal fused-coating additive manufacturing. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 759-764.	1.5	7
22	Visualisation study on flow field of bearing lubrication. <i>Lubrication Science</i> , 2015, 27, 127-134.	2.1	6
23	Morphology Analysis of a Multilayer Single Pass via Novel Metal Thin-Wall Coating Forming. <i>Metals</i> , 2016, 6, 313.	2.3	6
24	Effects of Welding Speed and Pulse Frequency on Surface Depression in Variable Polarity Gas Tungsten Arc Welding of Aluminum Alloy. <i>Metals</i> , 2019, 9, 114.	2.3	6
25	Preparation, microstructure, and microhardness of selective laser-melted Wâ€“3Ta sample. <i>Journal of Materials Research</i> , 2020, 35, 2016-2024.	2.6	6
26	Analysis of Heat Transfer Characteristics of a Heat Exchanger Based on a Lattice Filling. <i>Coatings</i> , 2021, 11, 1089.	2.6	6
27	Numerical and experimental investigation of molten metal droplet deposition applied to rapid prototyping. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	5
28	Numerical investigation of adhesion dynamics of a deformable cell pair on an adhesive substrate in shear flow. <i>Physical Review E</i> , 2019, 100, 033111.	2.1	5
29	Research on Automated Defect Classification Based on Visual Sensing and Convolutional Neural Network-Support Vector Machine for GTA-Assisted Droplet Deposition Manufacturing Process. <i>Metals</i> , 2021, 11, 639.	2.3	4
30	Research on the manufacturing of electrical power fittings based on metal droplet deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	3
31	Experimental analysis of component morphology by fused coating process. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 2773-2779.	1.5	3
32	Numerical simulation and experimental research on fused-coating additive manufacturing of Sn ₆₃ Pb ₃₇ thin-walled structures. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	3
33	Numerical simulation and application of micro-nano bubble releaser for irrigation. <i>Materials Express</i> , 2021, 11, 1007-1015.	0.5	3
34	Slicing Algorithm and Partition Scanning Strategy for 3D Printing Based on GPU Parallel Computing. <i>Materials</i> , 2021, 14, 4297.	2.9	3
35	Investigation of resist filling behavior in microimprint lithography by computational fluid dynamics simulation and defocusing digital particle image velocimetry. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 021601.	1.2	2
36	Different etching evolution from initial to etched ZnO nanorods on substrates of dissimilar geometries. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	2

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37	A 3D computational model of perfusion seeding for investigating cell transport and adhesion within a porous scaffold. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1461-1475.	2.8	2
38	Performance Comparison of Solid Lead Ion Electrodes with Different Carbon-Based Nanomaterials as Electron-Ion Exchangers. <i>Sensors</i> , 2021, 21, 1663.	3.8	2
39	Flow characteristics and diaphragm deformation of pressure-compensating drip irrigation emitters*. <i>Irrigation and Drainage</i> , 0, , .	1.7	2
40	A Novel Prediction and Planning Model for the Benefit of Irrigation Water Allocation Based on Deep Learning and Uncertain Programming. <i>Water (Switzerland)</i> , 2022, 14, 689.	2.7	2
41	Building of nested components by a double-nozzle droplet deposition process. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	1
42	Visualization investigation on flow field of journal bearing with partial texture surface. <i>Lubrication Science</i> , 2016, 28, 423-432.	2.1	1
43	Optimal Design of Nozzle for Supersonic Atmosphere Plasma Spraying. <i>High Temperature Materials and Processes</i> , 2016, 35, 685-696.	1.4	1
44	Numerical analysis of aluminum alloy fused coating process. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	1
45	Micromechanical Behavior of Transformation-Induced Plasticity-Assisted Annealed Martensitic Steel Using In Situ Neutron Diffraction. <i>Steel Research International</i> , 2020, 91, 1900631.	1.8	1
46	Influence of Process on 7075 Al-Alloy by Composite Arc Additive Manufacturing. <i>Transactions of the Indian Institute of Metals</i> , 2022, 75, 545-554.	1.5	1
47	An Estimation of the Discharge Exponent of a Drip Irrigation Emitter by Response Surface Methodology and Machine Learning. <i>Water (Switzerland)</i> , 2022, 14, 1034.	2.7	1
48	Multi-user Random Water Distribution in Greenhouse Based on Hybrid Intelligent Algorithm. , 2021, , .		0
49	UV irradiation-promoted wet etching of ZnO nanorods to nanotubes. <i>Micro and Nano Letters</i> , 2020, 15, 96-100.	1.3	0