

# 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	Influence of Process on 7075 Al-Alloy by Composite Arc Additive Manufacturing. Transactions of the Indian Institute of Metals, 2022, 75, 545-554.	1.5	1
2	A Novel Prediction and Planning Model for the Benefit of Irrigation Water Allocation Based on Deep Learning and Uncertain Programming. Water (Switzerland), 2022, 14, 689.	2.7	2
3	An Estimation of the Discharge Exponent of a Drip Irrigation Emitter by Response Surface Methodology and Machine Learning. Water (Switzerland), 2022, 14, 1034.	2.7	1
4	Performance Comparison of Solid Lead Ion Electrodes with Different Carbon-Based Nanomaterials as Electron-Ion Exchangers. Sensors, 2021, 21, 1663.	3.8	2
5	Research on Automated Defect Classification Based on Visual Sensing and Convolutional Neural Network-Support Vector Machine for GTA-Assisted Droplet Deposition Manufacturing Process. Metals, 2021, 11, 639.	2.3	4
6	Numerical simulation and application of micro-nano bubble releaser for irrigation. Materials Express, 2021, 11, 1007-1015.	0.5	3
7	Slicing Algorithm and Partition Scanning Strategy for 3D Printing Based on GPU Parallel Computing. Materials, 2021, 14, 4297.	2.9	3
8	High-Sensitivity Enzymatic Glucose Sensor Based on ZnO Urchin-like Nanostructure Modified with Fe <sub>3</sub> O <sub>4</sub> Magnetic Particles. Micromachines, 2021, 12, 977.	2.9	8
9	Analysis of Heat Transfer Characteristics of a Heat Exchanger Based on a Lattice Filling. Coatings, 2021, 11, 1089.	2.6	6
10	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
11	Laser Powder Bed Fusion of Pure Tungsten: Effects of Process Parameters on Morphology, Densification, Microstructure. Materials, 2021, 14, 165.	2.9	10
12	Multi-user Random Water Distribution in Greenhouse Based on Hybrid Intelligent Algorithm. , 2021, , .		0
13	A 3D computational model of perfusion seeding for investigating cell transport and adhesion within a porous scaffold. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1461-1475.	2.8	2
14	An all-solid-state NO <sub>3</sub> - ion-selective electrode with gold nanoparticles solid contact layer and molecularly imprinted polymer membrane. PLoS ONE, 2020, 15, e0240173.	2.5	8
15	Numerical analysis of aluminum alloy fused coating process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	1
16	Micromechanical Behavior of Transformation-Induced Plasticity-Assisted Annealed Martensitic Steel Using In Situ Neutron Diffraction. Steel Research International, 2020, 91, 1900631.	1.8	1
17	Preparation, microstructure, and microhardness of selective laser-melted W-3Ta sample. Journal of Materials Research, 2020, 35, 2016-2024.	2.6	6
18	UV irradiation-promoted wet etching of ZnO nanorods to nanotubes. Micro and Nano Letters, 2020, 15, 96-100.	1.3	0

#	ARTICLE	IF	CITATIONS
19	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
20	Densification, Microstructure and Properties of 90W-7Ni-3Fe Fabricated by Selective Laser Melting. <i>Metals</i> , 2019, 9, 884.	2.3	18
21	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
22	Soybean protein hydrolysate-formaldehyde-urea block copolymer for controlled release fertilizer. <i>Environmental Pollutants and Bioavailability</i> , 2019, 31, 94-102.	3.0	7
23	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
24	Numerical simulation and experimental research on fused-coating additive manufacturing of Sn63Pb37 thin-walled structures. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	3
25	Numerical analysis of arc driving forces and temperature distribution in pulsed TIG welding. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	14
26	Thermal dynamic behavior during selective laser melting of K418 superalloy: numerical simulation and experimental verification. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	42
27	CFD-DEM combined the fictitious domain method with monte carlo method for studying particle sediment in fluid. <i>Particulate Science and Technology</i> , 2018, 36, 920-933.	2.1	9
28	Effects of membrane deformability and bond formation/dissociation rates on adhesion dynamics of a spherical capsule in shear flow. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 223-234.	2.8	12
29	Forming and defect analysis for single track scanning in selective laser melting of Ti6Al4V. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	40
30	Experimental analysis of component morphology by fused coating process. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 2773-2779.	1.5	3
31	Thermal behavior in single track during selective laser melting of AlSi10Mg powder. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	66
32	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
33	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
34	Experimental Research on Selective Laser Melting AlSi10Mg Alloys: Process, Densification and Performance. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 5897-5905.	2.5	22
35	Doping Ag in ZnO Nanorods to Improve the Performance of Related Enzymatic Glucose Sensors. <i>Sensors</i> , 2017, 17, 2214.	3.8	28
36	Morphology Analysis of a Multilayer Single Pass via Novel Metal Thin-Wall Coating Forming. <i>Metals</i> , 2016, 6, 313.	2.3	6

#	ARTICLE	IF	CITATIONS
37	Building of nested components by a double-nozzle droplet deposition process. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	1
38	Visualization investigation on flow field of journal bearing with partial texture surface. Lubrication Science, 2016, 28, 423-432.	2.1	1
39	Numerical and experimental investigation of molten metal droplet deposition applied to rapid prototyping. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	5
40	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
41	A novel high-efficiency methodology for metal additive manufacturing. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	13
42	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
43	Optimal Design of Nozzle for Supersonic Atmosphere Plasma Spraying. High Temperature Materials and Processes, 2016, 35, 685-696.	1.4	1
44	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
45	Visualisation study on flow field of bearing lubrication. Lubrication Science, 2015, 27, 127-134.	2.1	6
46	Numerical Investigation of Pileup Process in Metal Microdroplet Deposition Manufacture. Micromachines, 2014, 5, 1429-1444.	2.9	11
47	Investigation of resist filling behavior in microimprint lithography by computational fluid dynamics simulation and defocusing digital particle image velocimetry. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 021601.	1.2	2
48	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
49	Flow characteristics and diaphragm deformation of pressure-compensating drip irrigation emitters*. Irrigation and Drainage, 0, , .	1.7	2