

# Zhan-Yong Zhao

## List of Publications by Year in descending order

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51  
papers

1,426  
citations

471509

17  
h-index

330143

37  
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51  
all docs

51  
docs citations

51  
times ranked

1044  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Temperature Oxidation Behavior of NiCoCrAlY Coatings Deposited by Laser Cladding on 304 Stainless Steel. <i>Metals and Materials International</i> , 2022, 28, 412-420.	3.4	6
2	Effect of Heat Treatment on the Microstructure and Properties of Inconel 718 Alloy Fabricated by Selective Laser Melting. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 353-364.	2.5	5
3	Fabrication of magnesium-coated graphene and its effect on the microstructure of reinforced AZ91 magnesium-matrix composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 504-512.	21.1	23
4	EBSD investigation on the microstructure of Ti48Al2Cr2Nb alloy hot isostatic pressing formed by Selective laser melting (SLM). <i>Materials Letters</i> , 2022, 309, 131334.	2.6	7
5	AZ91 alloy nanocomposites reinforced with Mg-coated graphene: Phases distribution, interfacial microstructure, and property analysis. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163484.	5.5	41
6	Effect of Solution Temperature on the Microstructure and Properties of 17-4PH High-Strength Steel Samples Formed by Selective Laser Melting. <i>Metals</i> , 2022, 12, 425.	2.3	6
7	First Principle Study of MgSnLa Compounds in Mg-3Sn-1Mn-1La Alloy Processed by Rheo-Rolling. <i>Materials</i> , 2022, 15, 1361.	2.9	1
8	Microstructure and Properties of Porous 17-4PH Stainless Steel Prepared by Selective Laser Melting. <i>Transactions of the Indian Institute of Metals</i> , 2022, 75, 1641-1648.	1.5	3
9	Solidified behavior and microstructure of high-strength Mg alloy under electromagnetic field simulated by direct current. <i>Journal of Materials Research</i> , 2022, 37, 1115-1124.	2.6	0
10	Three-dimensional printing of the copper sulfate hybrid composites for supercapacitor electrodes with ultra-high areal and volumetric capacitances. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1537-1547.	21.1	78
11	Microstructure evolution of Zn-0.2Mg-0.8Mn(wt-%) alloys with different initial textures during room-temperature compression. <i>Materials Science and Technology</i> , 2022, 38, 1368-1375.	1.6	1
12	The interfacial structure of $\sqrt{3}\times\sqrt{3}$ -Ti/TiC in graphene-reinforced Ti6Al4V matrix composite coating prepared by laser cladding: first-principles and experimental. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3
13	Effects of alloying elements X (Cr, Mn, Mo, Ni, Si) on the interface stability of TiC (001)/ $\sqrt{3}\times\sqrt{3}$ -Fe (001) in TiC/316L stainless steel composite formed by selective laser melting: first principles and experiments. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 195-204.	21.1	30
14	Microstructure and Properties of In situ Synthesized TiC/Graphene/Ti6Al4V Composite Coating by Laser Cladding. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 891-899.	1.5	6
15	First Principle Study of TiB2 (0001)/ $\sqrt{3}\times\sqrt{3}$ -Fe (111) Interfacial Strength and Heterogeneous Nucleation. <i>Materials</i> , 2021, 14, 1573.	2.9	8
16	Microstructure and properties of periodic porous Inconel 718 alloy prepared by selective laser melting. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 332-338.	21.1	18
17	Tribological Behavior of In Situ TiC/Graphene/Graphite/Ti6Al4V Matrix Composite Through Laser Cladding. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1317-1330.	2.9	38
18	First-Principles Study on Graphene/Mg2Si Interface of Selective Laser Melting Graphene/Aluminum Matrix Composites. <i>Metals</i> , 2021, 11, 941.	2.3	3

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19	Interfacial structures and strengthening mechanisms of in situ synthesized TiC reinforced Ti6Al4V composites by selective laser melting. <i>Ceramics International</i> , 2021, 47, 34127-34136.	4.8	21
20	Compression properties of porous Inconel 718 alloy formed by selective laser melting. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 1309-1321.	21.1	9
21	Deformation strengthening mechanism of in situ TiC/TC4 alloy nanocomposites produced by selective laser melting. <i>Composites Part B: Engineering</i> , 2021, 225, 109305.	12.0	29
22	Wear resistance of graphene nano-platelets (GNPs) reinforced AlSi10Mg matrix composite prepared by SLM. <i>Applied Surface Science</i> , 2020, 503, 144156.	6.1	87
23	Failure Analysis of the Tree Column Structures Type AlSi10Mg Alloy Branches Manufactured by Selective Laser Melting. <i>Materials</i> , 2020, 13, 3969.	2.9	3
24	Microstructure characterisation of in-situ synthesised TiC/Ti6Al4V composite coating by laser cladding. <i>Philosophical Magazine Letters</i> , 2020, 100, 588-595.	1.2	1
25	Interfacial Stability of TiC/Fe in TiC/316L Stainless Steel Composites Prepared by Selective Laser Melting: First Principles and Experiment. <i>Metals</i> , 2020, 10, 1225.	2.3	7
26	Formability and hardness studies of selective laser melting of GH4169 Ni-based alloy powders. <i>Emerging Materials Research</i> , 2020, 9, 758-769.	0.7	2
27	The Compressive Behavior of Porous TC4 Alloy Scaffolds Manufactured by Selective Laser Melting. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 2861-2867.	1.5	9
28	An overview of graphene and its derivatives reinforced metal matrix composites: Preparation, properties and applications. <i>Carbon</i> , 2020, 170, 302-326.	10.3	169
29	The Evolution of Microstructure, Mechanical Properties and Fracture Behavior with Increasing Lanthanum Content in AZ91 Alloy. <i>Metals</i> , 2020, 10, 1256.	2.3	7
30	Influence of rhenium and tungsten on the microstructure and performance of GH4169 alloy through heat treatment. <i>Emerging Materials Research</i> , 2020, 9, 705-715.	0.7	1
31	The Interfacial Characteristics of Graphene/Al4C3 in Graphene/AlSi10Mg Composites Prepared by Selective Laser Melting: First Principles and Experimental Results. <i>Materials</i> , 2020, 13, 702.	2.9	14
32	In-situ synthesis of TiC/graphene/Ti6Al4V composite coating by laser cladding. <i>Materials Letters</i> , 2020, 270, 127711.	2.6	33
33	Microstructure and tribological behavior of graphene/Al composites produced by selective laser melting. <i>Materials Research Express</i> , 2019, 6, 1065c1.	1.6	17
34	Tribological Behavior of TiC Particles Reinforced 316Lss Composite Fabricated Using Selective Laser Melting. <i>Materials</i> , 2019, 12, 950.	2.9	17
35	AlSi10Mg alloy nanocomposites reinforced with aluminum-coated graphene: Selective laser melting, interfacial microstructure and property analysis. <i>Journal of Alloys and Compounds</i> , 2019, 792, 203-214.	5.5	147
36	The Reaction Thermodynamics during Plating Al on Graphene Process. <i>Materials</i> , 2019, 12, 330.	2.9	43

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37	Microstructure and Mechanical Properties of TiC-Reinforced 316L Stainless Steel Composites Fabricated Using Selective Laser Melting. <i>Metals</i> , 2019, 9, 267.	2.3	71
38	Microstructural evolution and mechanical properties of IN718 alloy fabricated by selective laser melting following different heat treatments. <i>Journal of Alloys and Compounds</i> , 2019, 772, 861-870.	5.5	108
39	Microstructure and properties of Ti/TiBCN coating on 7075 aluminum alloy by laser cladding. <i>Surface and Coatings Technology</i> , 2018, 334, 142-149.	4.8	63
40	Friction and wear behaviour of Inconel 718 alloy fabricated by selective laser melting after heat treatments. <i>Philosophical Magazine Letters</i> , 2018, 98, 547-555.	1.2	10
41	Temperature distribution and its influence on microstructure of Mg-3Sn-1Mn alloy during rheo-rolling process. <i>Philosophical Magazine</i> , 2018, 98, 2367-2379.	1.6	2
42	Analysis of Geometrical Characteristics and Properties of Laser Cladding 85 wt.% Ti + 15 wt.% TiBCN Powder on 7075 Aluminum Alloy Substrate. <i>Materials</i> , 2018, 11, 1551.	2.9	14
43	Simulation of Stress Field during the Selective Laser Melting Process of the Nickel-Based Superalloy, GH4169. <i>Materials</i> , 2018, 11, 1525.	2.9	19
44	Microstructural evolution and mechanical strengthening mechanism of Mg-3Sn-1Mn-1La alloy after heat treatments. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 734, 200-209.	5.6	91
45	The Heat Treatment Influence on the Microstructure and Hardness of TC4 Titanium Alloy Manufactured via Selective Laser Melting. <i>Materials</i> , 2018, 11, 1318.	2.9	64
46	Effects of Process Parameters of Semisolid Stirring on Microstructure of Mg-3Sn-1Mn-3SiC (wt%) Strip Processed by Rheo-rolling. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 66-72.	2.9	76
47	Formation of yttrium oxide in cemented carbides. <i>Philosophical Magazine Letters</i> , 2017, 97, 469-475.	1.2	1
48	Microstructure and deformation behavior of Ti-10V-2Fe-3Al alloy during hot forming process. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 1332-1337.	1.0	1
49	Mathematical model and theoretical research of flow shear constitutive relation during rheo-rolling of semisolid alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 1049-1055.	1.0	0
50	Boundary layer distributions and cooling rate of cooling sloping plate process. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 701-705.	1.0	5
51	Microstructure evolution and solidification behaviors of A2017 alloy during cooling/stirring and rolling process. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 2871-2876.	4.2	8