

Abdollah Saboori

List of Publications by Year in descending order

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56
papers

2,468
citations

249298

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232693

48
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all docs

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docs citations

57
times ranked

2056
citing authors

#	ARTICLE	IF	CITATIONS
1	Tribological behaviour of AZ31 magnesium alloy reinforced by bimodal size B4C after precipitation hardening. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 3267-3280.	5.5	32
2	A comparative study of dry and cryogenic milling for Directed Energy Deposited IN718 components: effect on process and part quality. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 745-758.	1.5	15
3	An investigation on the processing conditions of Ti-6Al-2Sn-4Zr-2Mo by electron beam powder bed fusion: Microstructure, defect distribution, mechanical properties and dimensional accuracy. <i>Additive Manufacturing</i> , 2022, 50, 102564.	1.7	8
4	The role of substrate preheating on the microstructure, roughness, and mechanical performance of AISI 316L produced by directed energy deposition additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 7159-7174.	1.5	13
5	Microstructure and Corrosion Properties of CP-Ti Processed by Laser Powder Bed Fusion under Similar Energy Densities. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 1453-1464.	1.5	8
6	In-situ alloying of a fine grained fully equiaxed Ti-based alloy via electron beam powder bed fusion additive manufacturing process. <i>Additive Manufacturing</i> , 2022, 56, 102878.	1.7	2
7	Effect of Aging and Cooling Path on the Super Î ² -Transus Heat-Treated Ti-6Al-4V Alloy Produced via Electron Beam Melting (EBM). <i>Materials</i> , 2022, 15, 4067.	1.3	5
8	Hybrid additive manufacturing of an electron beam powder bed fused Ti6Al4V by transient liquid phase bonding. <i>Journal of Materials Research and Technology</i> , 2022, 20, 180-194.	2.6	8
9	Comparative Insight into the Interfacial Phase Evolutions during Solution Treatment of Dissimilar Friction Stir Welded AA2198-AA7475 and AA2198-AA6013 Aluminum Sheets. <i>Materials</i> , 2021, 14, 1290.	1.3	22
10	A Comprehensive Overview on the Latest Progress in the Additive Manufacturing of Metal Matrix Composites: Potential, Challenges, and Feasible Solutions. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1173-1200.	1.5	44
11	Electron beam melting of Ti-6Al-4V lattice structures: correlation between post heat treatment and mechanical properties. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 3535-3547.	1.5	12
12	In-situ alloying in laser-based additive manufacturing processes: A critical review. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159567.	2.8	113
13	On the effect of rapid annealing on the microstructure and mechanical behavior of additively manufactured stainless steel by Laser Powder Bed Fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 828, 142109.	2.6	33
14	Fabrication and Characterization of the Modified EV31-Based Metal Matrix Nanocomposites. <i>Metals</i> , 2021, 11, 125.	1.0	6
15	Innovative Approach to Evaluate the Mechanical Performance of Ti-6Al-4V Lattice Structures Produced by Electron Beam Melting Process. <i>Metals and Materials International</i> , 2021, 27, 55-67.	1.8	30
16	Recent Progress in Beam-Based Metal Additive Manufacturing from a Materials Perspective: A Review of Patents. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8689-8699.	1.2	12
17	On the processability of copper components via powder-based additive manufacturing processes: Potentials, challenges and feasible solutions. <i>Journal of Manufacturing Processes</i> , 2021, 72, 320-337.	2.8	32
18	The role of texturing and microstructure evolution on the tensile behavior of heat-treated Inconel 625 produced via laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 769, 138500.	2.6	101

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19	Laser powder bed fusion of a Zr-alloy: Tensile properties and biocompatibility. <i>Materials Letters</i> , 2020, 259, 126897.	1.3	34
20	Critical Features in the Microstructural Analysis of AISI 316L Produced By Metal Additive Manufacturing. <i>Metallography, Microstructure, and Analysis</i> , 2020, 9, 92-96.	0.5	19
21	The Influence of the Process Parameters on the Densification and Microstructure Development of Laser Powder Bed Fused Inconel 939. <i>Metals</i> , 2020, 10, 882.	1.0	28
22	The role of Directed Energy Deposition atmosphere mode on the microstructure and mechanical properties of 316L samples. <i>Additive Manufacturing</i> , 2020, 34, 101274.	1.7	25
23	Microstructure and Mechanical Properties of AISI 316L Produced by Directed Energy Deposition-Based Additive Manufacturing: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3310.	1.3	105
24	Microstructural Evolutions and its Impact on the Corrosion Behaviour of Explosively Welded Al/Cu Bimetal. <i>Metals</i> , 2020, 10, 634.	1.0	42
25	An investigation on the effect of deposition pattern on the microstructure, mechanical properties and residual stress of 316L produced by Directed Energy Deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 780, 139179.	2.6	101
26	Ti-6Al-4V lattice structures produced by EBM: Heat treatment and mechanical properties. <i>Procedia CIRP</i> , 2020, 88, 411-416.	1.0	13
27	Hot deformation behavior and flow stress modeling of Ti-6Al-4V alloy produced via electron beam melting additive manufacturing technology in single β -phase field. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139822.	2.6	55
28	Microstructure and Mechanical Performance of Ti-6Al-4V Lattice Structures Manufactured via Electron Beam Melting (EBM): A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 183-203.	1.5	75
29	On the Effect of Deposition Patterns on the Residual Stress, Roughness and Microstructure of AISI 316L Samples Produced by Directed Energy Deposition. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 206-212.	0.3	6
30	Effect of second-phase particles evolution and lattice transformations while ultrafine graining and annealing on the corrosion resistance and electrical conductivity of Al-Mn-Si alloy. <i>Materials Research Express</i> , 2019, 6, 1065d9.	0.8	26
31	Reactive spontaneous infiltration of Al-activated TiO ₂ by molten aluminum. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 657-666.	1.7	7
32	Development of Novel AlSi10Mg Based Nanocomposites: Microstructure, Thermal and Mechanical Properties. <i>Metals</i> , 2019, 9, 1000.	1.0	5
33	An Overview of the Recent Developments in Metal Matrix Nanocomposites Reinforced by Graphene. <i>Materials</i> , 2019, 12, 2823.	1.3	61
34	An investigation on the effect of powder recycling on the microstructure and mechanical properties of AISI 316L produced by Directed Energy Deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138360.	2.6	104
35	Application of Directed Energy Deposition-Based Additive Manufacturing in Repair. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3316.	1.3	265
36	How the nozzle position affects the geometry of the melt pool in directed energy deposition process. <i>Powder Metallurgy</i> , 2019, 62, 213-217.	0.9	20

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37	New Aluminum Alloys Specifically Designed for Laser Powder Bed Fusion: A Review. <i>Materials</i> , 2019, 12, 1007.	1.3	162
38	Laser Powder Bed Fusion of Inconel 718: Residual Stress Analysis Before and After Heat Treatment. <i>Metals</i> , 2019, 9, 1290.	1.0	75
39	Novel AM60-SiO ₂ Nanocomposite Produced via Ultrasound-Assisted Casting; Production and Characterization. <i>Materials</i> , 2019, 12, 3976.	1.3	12
40	Effect of Graphene Nanoplatelets on Microstructure and Mechanical Properties of AlSi10Mg Nanocomposites Produced by Hot Extrusion. <i>Powder Metallurgy and Metal Ceramics</i> , 2018, 56, 647-655.	0.4	16
41	A Novel Cu-GNPs Nanocomposite with Improved Thermal and Mechanical Properties. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 148-152.	1.5	22
42	A Novel Approach to Enhance the Mechanical Strength and Electrical and Thermal Conductivity of Cu-GNP Nanocomposites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 333-345.	1.1	38
43	An Overview of Key Challenges in the Fabrication of Metal Matrix Nanocomposites Reinforced by Graphene Nanoplatelets. <i>Metals</i> , 2018, 8, 172.	1.0	55
44	Determination of critical condition for initiation of dynamic recrystallisation in Zr-1%Nb alloy. <i>Journal of Alloys and Compounds</i> , 2018, 757, 1-7.	2.8	9
45	Production of Single Tracks of Ti-6Al-4V by Directed Energy Deposition to Determine the Layer Thickness for Multilayer Deposition. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	16
46	An Overview of Metal Matrix Nanocomposites Reinforced with Graphene Nanoplatelets; Mechanical, Electrical and Thermophysical Properties. <i>Metals</i> , 2018, 8, 423.	1.0	57
47	Novel Magnesium Elektron21-AlN Nanocomposites Produced by Ultrasound-Assisted Casting; Microstructure, Thermal and Electrical Conductivity. <i>Materials</i> , 2018, 11, 27.	1.3	23
48	An Investigation on the Sinterability and the Compaction Behavior of Aluminum/Graphene Nanoplatelets (GNPs) Prepared by Powder Metallurgy. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 993-999.	1.2	53
49	Development of Al- and Cu-based nanocomposites reinforced by graphene nanoplatelets: Fabrication and characterization. <i>Frontiers of Materials Science</i> , 2017, 11, 171-181.	1.1	28
50	Hot deformation behavior of Zr-1%Nb alloy: Flow curve analysis and microstructure observations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 366-373.	2.6	19
51	Microstructure and Thermal Conductivity of Al-Graphene Composites Fabricated by Powder Metallurgy and Hot Rolling Techniques. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 675-687.	1.5	74
52	Effect of Sample Preparation on the Microstructural Evaluation of Al-GNPs Nanocomposites. <i>Metallography, Microstructure, and Analysis</i> , 2017, 6, 619-622.	0.5	10
53	Studying the age hardening kinetics of A357 aluminum alloys through the Johnson-Mehl-Avrami theory. <i>Metal Powder Report</i> , 2017, 72, 420-424.	0.3	18
54	Effect of Solution Treatment on Precipitation Behaviors, Age Hardening Response and Creep Properties of Elektron21 Alloy Reinforced by AlN Nanoparticles. <i>Materials</i> , 2017, 10, 1380.	1.3	26

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55	New Nanocomposite Materials with Improved Mechanical Strength and Tailored Coefficient of Thermal Expansion for Electro-Packaging Applications. <i>Metals</i> , 2017, 7, 536.	1.0	28
56	An Overview of Additive Manufacturing of Titanium Components by Directed Energy Deposition: Microstructure and Mechanical Properties. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 883.	1.3	240