

# Amir Mostafaei

## List of Publications by Year in descending order

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52  
papers

3,226  
citations

185998

28  
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189595

50  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binder Jet-Metals. , 2022, , 120-133.		2
2	Tribological behavior of ZK60 magnesium matrix composite reinforced by hybrid MWCNTs/B4C prepared by stir casting method. Tribology International, 2022, 165, 107299.	3.0	27
3	Defects and anomalies in powder bed fusion metal additive manufacturing. Current Opinion in Solid State and Materials Science, 2022, 26, 100974.	5.6	157
4	Characterizing Changes in Grain Growth, Mechanical Properties, and Transformation Properties in Differently Sintered and Annealed Binder-Jet 3D Printed 14M Niâ€“Mnâ€“Ga Magnetic Shape Memory Alloys. Metals, 2022, 12, 724.	1.0	3
5	Binder jet 3D printingâ€“Process parameters, materials, properties, modeling, and challenges. Progress in Materials Science, 2021, 119, 100707.	16.0	412
6	Production of Metal Matrix Composites Via Additive Manufacturing. , 2021, , 605-614.		5
7	Mastering a 1.2â€“K hysteresis for martensitic para-ferromagnetic partial transformation in Ni-Mn(Cu)-Ga magnetocaloric material via binder jet 3D printing. Additive Manufacturing, 2021, 37, 101560.	1.7	6
8	Influence of powder type and binder saturation on binder jet 3Dâ€“printed and sintered Inconel 625 samples. International Journal of Advanced Manufacturing Technology, 2021, 116, 3827-3838.	1.5	19
9	Microstructure evolution for isothermal sintering of binder jet 3D printed alloy 625 above and below the solidus temperature. Additive Manufacturing, 2021, , 102276.	1.7	1
10	Effect of binder saturation and drying time on microstructure and resulting properties of sinter-HIP binder-jet 3D-printed WC-Co composites. Additive Manufacturing, 2021, 46, 102128.	1.7	7
11	Study of printability and porosity formation in laser powder bed fusion built hydride-dehydride (HDH) Ti-6Al-4V. Additive Manufacturing, 2021, 47, 102323.	1.7	4
12	Grain Growth, Porosity, and Hardness Changes in Sintered and Annealed Binder-jet 3D Printed Ni-Mn-Ga Magnetic Shape Memory Alloys. Microscopy and Microanalysis, 2020, 26, 3082-3085.	0.2	1
13	Effect of heat treatment on microstructural evolution and hardness homogeneity in laser powder bed fusion of alloy 718. Additive Manufacturing, 2020, 35, 101282.	1.7	15
14	Synergetic photocatalytic effect of high purity ZnO pod shaped nanostructures with H2O2 on methylene blue dye degradation. Journal of Alloys and Compounds, 2020, 845, 156333.	2.8	47
15	One-step synthesis of high purity ZnO micro/nanostructures from pure Zn and pre-alloyed brass powders by vapor phase transport. Ceramics International, 2020, 46, 11689-11697.	2.3	9
16	Highly porous, flexible and robust cellulose acetate/Au/ZnO as a hybrid photocatalyst. Applied Surface Science, 2020, 526, 146237.	3.1	26
17	In-situ formation of TiN-TiO2 composite layer on NiTi shape memory alloy via fluidized bed reactor. Ceramics International, 2020, 46, 21097-21106.	2.3	15
18	Additive Manufacturing of Cobalt Alloys. , 2020, , 374-379.		2

#	ARTICLE	IF	CITATIONS
19	Powder Characterization for Metal Additive Manufacturing. , 2020, , 172-179.		4
20	Varied heat treatments and properties of laser powder bed printed Inconel 718. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 755, 170-180.	2.6	80
21	Microstructural evolution and resulting properties of differently sintered and heat-treated binder-jet 3D-printed Stellite 6. Materials Science and Engineering C, 2019, 102, 276-288.	3.8	31
22	Growth mechanism and charge transport properties of hybrid Au/ZnO nanoprisms. Journal of Alloys and Compounds, 2019, 777, 1386-1395.	2.8	27
23	Effect of powder size distribution on densification and microstructural evolution of binder-jet 3D-printed alloy 625. Materials and Design, 2019, 162, 375-383.	3.3	134
24	Binder jetting of a complex-shaped metal partial denture framework. Additive Manufacturing, 2018, 21, 63-68.	1.7	47
25	Comparison of characterization methods for differently atomized nickel-based alloy 625 powders. Powder Technology, 2018, 333, 180-192.	2.1	31
26	Characterizing surface finish and fatigue behavior in binder-jet 3D-printed nickel-based superalloy 625. Additive Manufacturing, 2018, 24, 200-209.	1.7	37
27	Sintering regimes and resulting microstructure and properties of binder jet 3D printed Ni-Mn-Ga magnetic shape memory alloys. Acta Materialia, 2018, 154, 355-364.	3.8	75
28	Microstructural evolution and mechanical properties of differently heat-treated binder jet printed samples from gas- and water-atomized alloy 625 powders. Acta Materialia, 2017, 124, 280-289.	3.8	125
29	Data on the densification during sintering of binder jet printed samples made from water- and gas-atomized alloy 625 powders. Data in Brief, 2017, 10, 116-121.	0.5	26
30	Corrosion behavior of alloy 316L stainless steel after exposure to supercritical water at 500 Å°C for 20,000 h. Journal of Supercritical Fluids, 2017, 127, 191-199.	1.6	40
31	Microstructural evolution and magnetic properties of binder jet additive manufactured Ni-Mn-Ga magnetic shape memory alloy foam. Acta Materialia, 2017, 131, 482-490.	3.8	102
32	Characterization of oxide layer and micro-crack initiation in alloy 316L stainless steel after 20,000 h exposure to supercritical water at 500 Å°C. Materials Characterization, 2017, 131, 532-543.	1.9	16
33	Internal oxidation and crack susceptibility of alloy 310S stainless steel after long term exposure to supercritical water at 500Å°C. Journal of Supercritical Fluids, 2017, 120, 161-172.	1.6	34
34	A comparative study on the oxidation of austenitic alloys 304 and 304-oxide dispersion strengthened steel in supercritical water at 650 Å°C. Journal of Supercritical Fluids, 2017, 119, 245-260.	1.6	43
35	Brief data overview of differently heat treated binder jet printed samples made from argon atomized alloy 625 powder. Data in Brief, 2016, 9, 556-562.	0.5	11
36	Effect of solutionizing and aging on the microstructure and mechanical properties of powder bed binder jet printed nickel-based superalloy 625. Materials and Design, 2016, 111, 482-491.	3.3	69

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37	Characterization of oxide scales grown on alloy 310S stainless steel after long term exposure to supercritical water at 500 Å°C. <i>Materials Characterization</i> , 2016, 120, 273-284.	1.9	31
38	Powder bed binder jet printed alloy 625: Densification, microstructure and mechanical properties. <i>Materials and Design</i> , 2016, 108, 126-135.	3.3	130
39	A comparative study of oxide scales grown on stainless steel and nickel-based superalloys in ultra-high temperature supercritical water at 800 Å°C. <i>Corrosion Science</i> , 2016, 106, 188-207.	3.0	121
40	Friction stir welding joint of dissimilar materials between AZ31B magnesium and 6061 aluminum alloys: Microstructure studies and mechanical characterizations. <i>Materials Characterization</i> , 2015, 101, 189-207.	1.9	153
41	Tool geometry, rotation and travel speeds effects on the properties of dissimilar magnesium/aluminum friction stir welded lap joints. <i>Materials &amp; Design</i> , 2015, 75, 95-112.	5.1	82
42	Metallurgical investigations and corrosion behavior of failed weld joint in AISI 1518 low carbon steel pipeline. <i>Engineering Failure Analysis</i> , 2015, 53, 78-96.	1.8	41
43	Epoxy/polyanilineâ€ZnO nanorods hybrid nanocomposite coatings: Synthesis, characterization and corrosion protection performance of conducting paints. <i>Progress in Organic Coatings</i> , 2014, 77, 146-159.	1.9	248
44	Assessment of localized corrosion in carbon steel tube-grade AISI 1045 used in output oilâ€gas separator vessel of desalination unit in oil refinery industry. <i>Engineering Failure Analysis</i> , 2014, 40, 75-88.	1.8	25
45	Resistance spot welding joints of AISI 316L austenitic stainless steel sheets: Phase transformations, mechanical properties and microstructure characterizations. <i>Materials &amp; Design</i> , 2014, 61, 251-263.	5.1	87
46	Effect of Welding Current and Time on the Microstructure, Mechanical Characterizations, and Fracture Studies of Resistance Spot Welding Joints of AISI 316L Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4423-4442.	1.1	26
47	An optimization study on the leaching of zinc cathode melting furnace slag in ammonium chloride by Taguchi design and synthesis of ZnO nanorods via precipitation methods. <i>Materials Research Bulletin</i> , 2013, 48, 4235-4247.	2.7	18
48	Preparation and characterization of a novel conducting nanocomposite blended with epoxy coating for antifouling and antibacterial applications. <i>Journal of Coatings Technology Research</i> , 2013, 10, 679-694.	1.2	61
49	Caustic corrosion in a boiler waterside tube: Root cause and mechanism. <i>Engineering Failure Analysis</i> , 2013, 28, 69-77.	1.8	42
50	Failure analysis of monel packing in atmospheric distillation tower under the service in the presence of corrosive gases. <i>Engineering Failure Analysis</i> , 2013, 28, 241-251.	1.8	19
51	Electrochemical study of epoxy coating containing novel conducting nanocomposite comprising polyanilineâ€ZnO nanorods on low carbon steel. <i>Corrosion Engineering Science and Technology</i> , 2013, 48, 513-524.	0.7	22
52	Synthesis and characterization of conducting polyaniline nanocomposites containing ZnO nanorods. <i>Progress in Natural Science: Materials International</i> , 2012, 22, 273-280.	1.8	386