

Amir Mostafaei

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4915275/publications.pdf>

Version: 2024-02-01

52
papers

3,226
citations

185998

28
h-index

189595

50
g-index

54
all docs

54
docs citations

54
times ranked

2613
citing authors

#	ARTICLE	IF	CITATIONS
1	Binder jet 3D printing Process parameters, materials, properties, modeling, and challenges. Progress in Materials Science, 2021, 119, 100707.	16.0	412
2	Synthesis and characterization of conducting polyaniline nanocomposites containing ZnO nanorods. Progress in Natural Science: Materials International, 2012, 22, 273-280.	1.8	386
3	Epoxy/polyaniline ZnO nanorods hybrid nanocomposite coatings: Synthesis, characterization and corrosion protection performance of conducting paints. Progress in Organic Coatings, 2014, 77, 146-159.	1.9	248
4	Defects and anomalies in powder bed fusion metal additive manufacturing. Current Opinion in Solid State and Materials Science, 2022, 26, 100974.	5.6	157
5	Friction stir welding joint of dissimilar materials between AZ31B magnesium and 6061 aluminum alloys: Microstructure studies and mechanical characterizations. Materials Characterization, 2015, 101, 189-207.	1.9	153
6	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
7	Powder bed binder jet printed alloy 625: Densification, microstructure and mechanical properties. Materials and Design, 2016, 108, 126-135.	3.3	130
8	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
9	A comparative study of oxide scales grown on stainless steel and nickel-based superalloys in ultra-high temperature supercritical water at 800 °C. Corrosion Science, 2016, 106, 188-207.	3.0	121
10	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
11	Resistance spot welding joints of AISI 316L austenitic stainless steel sheets: Phase transformations, mechanical properties and microstructure characterizations. Materials & Design, 2014, 61, 251-263.	5.1	87
12	Tool geometry, rotation and travel speeds effects on the properties of dissimilar magnesium/aluminum friction stir welded lap joints. Materials & Design, 2015, 75, 95-112.	5.1	82
13	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
14	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
15	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
16	Preparation and characterization of a novel conducting nanocomposite blended with epoxy coating for antifouling and antibacterial applications. Journal of Coatings Technology Research, 2013, 10, 679-694.	1.2	61
17	Binder jetting of a complex-shaped metal partial denture framework. Additive Manufacturing, 2018, 21, 63-68.	1.7	47
18	Synergetic photocatalytic effect of high purity ZnO pod shaped nanostructures with H ₂ O ₂ on methylene blue dye degradation. Journal of Alloys and Compounds, 2020, 845, 156333.	2.8	47

#	ARTICLE	IF	CITATIONS
19	A comparative study on the oxidation of austenitic alloys 304 and 304-oxide dispersion strengthened steel in supercritical water at 650 Å°C. <i>Journal of Supercritical Fluids</i> , 2017, 119, 245-260.	1.6	43
20	Caustic corrosion in a boiler waterside tube: Root cause and mechanism. <i>Engineering Failure Analysis</i> , 2013, 28, 69-77.	1.8	42
21	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
22	Corrosion behavior of alloy 316L stainless steel after exposure to supercritical water at 500 Å°C for 20,000 h. <i>Journal of Supercritical Fluids</i> , 2017, 127, 191-199.	1.6	40
23	Characterizing surface finish and fatigue behavior in binder-jet 3D-printed nickel-based superalloy 625. <i>Additive Manufacturing</i> , 2018, 24, 200-209.	1.7	37
24	Internal oxidation and crack susceptibility of alloy 310S stainless steel after long term exposure to supercritical water at 500Å°C. <i>Journal of Supercritical Fluids</i> , 2017, 120, 161-172.	1.6	34
25	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
26	Comparison of characterization methods for differently atomized nickel-based alloy 625 powders. <i>Powder Technology</i> , 2018, 333, 180-192.	2.1	31
27	Microstructural evolution and resulting properties of differently sintered and heat-treated binder-jet 3D-printed Stellite 6. <i>Materials Science and Engineering C</i> , 2019, 102, 276-288.	3.8	31
28	Growth mechanism and charge transport properties of hybrid Au/ZnO nanoprisms. <i>Journal of Alloys and Compounds</i> , 2019, 777, 1386-1395.	2.8	27
29	Tribological behavior of ZK60 magnesium matrix composite reinforced by hybrid MWCNTs/B4C prepared by stir casting method. <i>Tribology International</i> , 2022, 165, 107299.	3.0	27
30	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
31	Data on the densification during sintering of binder jet printed samples made from water- and gas-atomized alloy 625 powders. <i>Data in Brief</i> , 2017, 10, 116-121.	0.5	26
32	Highly porous, flexible and robust cellulose acetate/Au/ZnO as a hybrid photocatalyst. <i>Applied Surface Science</i> , 2020, 526, 146237.	3.1	26
33	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
34	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
35	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
36	Influence of powder type and binder saturation on binder jet 3Dâ€“printed and sintered Inconel 625 samples. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 3827-3838.	1.5	19

#	ARTICLE	IF	CITATIONS
37	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
38	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. <i>Materials Characterization</i> , 2017, 131, 532-543.	1.9	16
39	Effect of heat treatment on microstructural evolution and hardness homogeneity in laser powder bed fusion of alloy 718. <i>Additive Manufacturing</i> , 2020, 35, 101282.	1.7	15
40	In-situ formation of TiN-TiO ₂ composite layer on NiTi shape memory alloy via fluidized bed reactor. <i>Ceramics International</i> , 2020, 46, 21097-21106.	2.3	15
41	Brief data overview of differently heat treated binder jet printed samples made from argon atomized alloy 625 powder. <i>Data in Brief</i> , 2016, 9, 556-562.	0.5	11
42	One-step synthesis of high purity ZnO micro/nanostructures from pure Zn and pre-alloyed brass powders by vapor phase transport. <i>Ceramics International</i> , 2020, 46, 11689-11697.	2.3	9
43	Effect of binder saturation and drying time on microstructure and resulting properties of sinter-HIP binder-jet 3D-printed WC-Co composites. <i>Additive Manufacturing</i> , 2021, 46, 102128.	1.7	7
44	Mastering a 1.2ÅK hysteresis for martensitic para-ferromagnetic partial transformation in Ni-Mn(Cu)-Ga magnetocaloric material via binder jet 3D printing. <i>Additive Manufacturing</i> , 2021, 37, 101560.	1.7	6
45	Production of Metal Matrix Composites Via Additive Manufacturing. , 2021, , 605-614.		5
46	Study of printability and porosity formation in laser powder bed fusion built hydride-dehydride (HDH) Ti-6Al-4V. <i>Additive Manufacturing</i> , 2021, 47, 102323.	1.7	4
47	Powder Characterization for Metal Additive Manufacturing. , 2020, , 172-179.		4
48	Characterizing Changes in Grain Growth, Mechanical Properties, and Transformation Properties in Differently Sintered and Annealed Binder-Jet 3D Printed 14M NiÅMnÅGa Magnetic Shape Memory Alloys. <i>Metals</i> , 2022, 12, 724.	1.0	3
49	Binder Jet-Metals. , 2022, , 120-133.		2
50	Additive Manufacturing of Cobalt Alloys. , 2020, , 374-379.		2
51	Grain Growth, Porosity, and Hardness Changes in Sintered and Annealed Binder-jet 3D Printed Ni-Mn-Ga Magnetic Shape Memory Alloys. <i>Microscopy and Microanalysis</i> , 2020, 26, 3082-3085.	0.2	1
52	Microstructure evolution for isothermal sintering of binder jet 3D printed alloy 625 above and below the solidus temperature. <i>Additive Manufacturing</i> , 2021, , 102276.	1.7	1