Amir Hadadzadeh

List of Publications by Citations

57 papers	1,138 citations	22 h-index	32 g-index
58 ext. papers	1,499 ext. citations	4.3 avg, IF	5.27 L-index

#	Paper	IF	Citations
57	Strengthening mechanisms in direct metal laser sintered AlSi10Mg: Comparison between virgin and recycled powders. *Additive Manufacturing*, **2018**, 23, 108-120	6.1	83
56	A new grain orientation spread approach to analyze the dynamic recrystallization behavior of a cast-homogenized Mg-Zn-Zr alloy using electron backscattered diffraction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 709, 285-289	5.3	73
55	Columnar to equiaxed transition during direct metal laser sintering of AlSi10Mg alloy: Effect of building direction. *Additive Manufacturing*, **2018**, 23, 121-131	6.1	72
54	Contribution of Mg2Si precipitates to the strength of direct metal laser sintered AlSi10Mg. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2019**, 739, 295-300	5.3	70
53	Role of compression direction on recrystallization behavior and texture evolution during hot deformation of extruded ZK60 magnesium alloy. *Journal of Alloys and Compounds*, **2017**, 702, 274-289	5.7	49
52	Dynamic loading of direct metal laser sintered AlSi10Mg alloy: Strengthening behavior in different building directions. *Materials and Design*, **2018**, 159, 201-211	8.1	46
51	Role of hierarchical microstructure of additively manufactured AlSi10Mg on dynamic loading behavior. *Additive Manufacturing*, **2019**, 28, 1-13	6.1	43
50	Post heat treatment of additive manufactured AlSi10Mg: On silicon morphology, texture and small-scale properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 783, 139296	5.3	40
49	Constitutive modeling of Mg□Li□Al□Sr□Y at elevated temperatures. *Mechanics of Materials*, **2015**, 89, 241-253	3.3	38
48	Microstructure and corrosion behavior of a novel additively manufactured maraging stainless steel. *Electrochimica Acta*, **2020**, 339, 135925	6.7	37
47	Hot deformation behavior and processing map of a superlight dual-phase Mg□i alloy. *Journal of Alloys and Compounds*, **2018**, 766, 460-469	5.7	37
46	Analysis of the hot deformation of ZK60 magnesium alloy. *Journal of Magnesium and Alloys*, **2017**, 5, 369-387	8.8	35
45	Deformation mechanism during dynamic loading of an additively manufactured AlSi10Mg_200C. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2018**, 722, 263-268	5.3	31
44	Additive manufacturing of maraging steel-H13 bimetals using laser powder bed fusion technique. *Additive Manufacturing*, **2019**, 29, 100797	6.1	31
43	Mathematical modeling of thermo-mechanical behavior of strip during twin roll casting of an AZ31 magnesium alloy. *Journal of Magnesium and Alloys*, **2013**, 1, 101-114	8.8	30
42	A trade-off between powder layer thickness and mechanical properties in additively manufactured maraging steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 776, 139041	5.3	27
41	High temperature deformation behavior of extruded AZ31B magnesium alloy. *Journal of Materials Processing Technology*, **2018**, 251, 360-368	5.3	27

40	Modeling dynamic recrystallization during hot deformation of a cast-homogenized Mg-Zn-Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 720, 180-188	5.3	26
39	Microstructure evolution and simulation study of a duplex Mg□i alloy during Double Change Channel Angular Pressing. *Materials and Design*, **2016**, 90, 266-275	8.1	25
38	Additive manufacturing of an Fe□rNi□Al maraging stainless steel: Microstructure evolution, heat treatment, and strengthening mechanisms. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 787, 139470	5.3	23
37	Microstructural evolution and mechanical behavior of nickel aluminum bronze Cu-9Al-4Fe-4Ni-1Mn fabricated through wire-arc additive manufacturing. *Additive Manufacturing*, **2019**, 30, 100872	6.1	23
36	Deformation behavior and constitutive model for dual-phase Mg□i alloy at elevated temperatures. *Transactions of Nonferrous Metals Society of China*, **2016**, 26, 508-518	3.3	22
35	Selective laser melted stainless steel CX: Role of built orientation on microstructure and micro-mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 786, 139365	5.3	21
34	Deformation mechanisms and fracture of electron beam melted Ti□Al□V. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 771, 138652	5.3	20
33	Bimodal grain microstructure development during hot compression of a cast-homogenized Mg-Zn-Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 724, 421-430	5.3	19
32	Microstructural investigation and mechanical behavior of a two-material component fabricated through selective laser melting of AlSi10Mg on an Al-Cu-Ni-Fe-Mg cast alloy substrate. *Additive Manufacturing*, **2020**, 31, 100937	6.1	17
31	The effect of gas tungsten arc welding and pulsed-gas tungsten arc welding processes□parameters on the heat affected zone-softening behavior of strain-hardened Al□.7Mg alloy. *Materials & Design*, **2014**, 55, 335-342		14
30	Scale-up modeling of the twin roll casting process for AZ31 magnesium alloy. *Journal of Manufacturing Processes*, **2014**, 16, 468-478	5	14
29	Development of a mathematical model to study the feasibility of creating a clad AZ31 magnesium sheet via twin roll casting. *International Journal of Advanced Manufacturing Technology*, **2014**, 73, 449-463	3.2	13
28	Solidification behavior of dilute Mg-Zn-Nd alloys. *Journal of Alloys and Compounds*, **2019**, 782, 132-148	5.7	13
27	Thermal fluid mathematical modelling of twin roll casting (TRC) process for AZ31 magnesium alloy. *International Journal of Cast Metals Research*, **2013**, 26, 228-238	1	12
26	Influence of I-phase and W-phase on microstructure and mechanical properties of Mg□Li□Zn alloy. *Transactions of Nonferrous Metals Society of China*, **2015**, 25, 713-720	3.3	11
25	Analysis of compressibility behavior and development of a plastic yield model for uniaxial die compaction of sponge titanium powder. *Journal of Materials Processing Technology*, **2017**, 243, 92-99	5.3	10
24	Corrosion resistance of 13wt.% Cr martensitic stainless steels: Additively manufactured CX versus wrought Ni-containing AISI 420. *Corrosion Science*, **2021**, 184, 109362	6.8	10
23	Influence of build orientation on small-scale properties of electron beam melted Ti-6Al-4V. *Materials Letters*, **2020**, 266, 126970	3.3	9

22	Impact of homogenization heat treatment on the high temperature deformation behavior of cast AZ31B magnesium alloy. *Journal of Materials Processing Technology*, **2018**, 254, 238-247	5.3	7
21	HAZ softening behavior of strain-hardened Al-6.7Mg alloy welded by GMAW and pulsed GMAW processes. *International Journal of Advanced Manufacturing Technology*, **2017**, 92, 2255-2265	3.2	6
20	Additive manufactured versus cast AlSi10Mg alloy: Microstructure and micromechanics. *Results in Materials*, **2021**, 10, 100178	2.3	6
19	Warm and Hot Deformation Behavior of As-Cast ZEK100 Magnesium Alloy. *Experimental Mechanics*, **2016**, 56, 259-271	2.6	5
18	Mathematical Modeling of the Twin Roll Casting Process for AZ31 Magnesium Alloy Effect of Set-Back Distance141-144		5
17	Dynamic compressive response of electron beam melted Ti6Al4V under elevated strain rates: Microstructure and constitutive models. *Additive Manufacturing*, **2020**, 35, 101347	6.1	4
16	Twin Roll Casting (TRC) of Magnesium Alloys Opportunities and Challenges. *Materials Science Forum*, **2014**, 783-786, 527-533	0.4	4
15	Microstructure and Texture Evolution During Hot Deformation of Cast-Homogenized ZK60 Magnesium Alloy. *Minerals, Metals and Materials Series*, **2017**, 513-519	0.3	3
14	Microstructure Evolution in Direct Metal Laser Sintered Corrax Maraging Stainless Steel. *Minerals, Metals and Materials Series*, **2019**, 455-462	0.3	3
13	Inverse and centreline segregation formation in twin roll cast AZ31 magnesium alloy. *Materials Science and Technology*, **2015**, 31, 1715-1726	1.5	3
12	Microstructure evolution and mechanical properties of Mg9Li3Al2Sr alloy in change channel angular pressing. *Materials Science and Technology*, **2015**, 31, 1757-1763	1.5	3
11	Thermomechanical processing of an ultralight Mg-14Li-1Al alloy. *International Journal of Advanced Manufacturing Technology*, **2020**, 110, 3221-3239	3.2	3
10	Microstructural consistency in the additive manufactured metallic materials: A study on the laser powder bed fusion of AlSi10Mg. *Additive Manufacturing*, **2021**, 46, 102166	6.1	3
9	Characterization and analysis of hot compression behaviors of an ultralight Mg-Li-Al alloy. *International Journal of Lightweight Materials and Manufacture*, **2019**, 2, 217-226	2.2	2
8	The Morphology, Crystallography, and Chemistry of Phases in Wire-Arc Additively Manufactured Nickel Aluminum Bronze. *Minerals, Metals and Materials Series*, **2019**, 443-453	0.3	2
7	Indentation-derived mechanical properties of Ti-6Al-4V: Laser-powder bed fusion versus electron beam melting. *Materials Letters*, **2021**, 301, 130273	3.3	2
6	Indentation-derived creep response of cast and laser powder bed fused AlSi10Mg alloy: Air temperature. *Micron*, **2021**, 150, 103145	2.3	2
5	On the Effect of Building Direction on the Microstructure and Grain Morphology of a Selective Laser Melted Maraging Stainless Steel. *Minerals, Metals and Materials Series*, **2020**, 285-295	0.3	1

4	Indentation strain rate sensitivity of laser-powder bed fused and electron beam melted Ti6Al4V. *Vacuum*, **2021**, 195, 110690	3.7	1
3	Microstructure and Texture Evolution During Hot Compression of Cast and Extruded AZ80 Magnesium Alloy. *Minerals, Metals and Materials Series*, **2019**, 89-94	0.3	1
2	A hybrid additively manufactured martensitic-maraging stainless steel with superior strength and corrosion resistance for plastic injection molding dies. *Additive Manufacturing*, **2021**, 45, 102068	6.1	1
1	Evolution of a Gradient Microstructure in Direct Metal Laser Sintered AlSi10Mg. *Minerals, Metals and Materials Series*, **2019**, 331-338	0.3	