

R Taherzadeh Mousavian

List of Publications by Year in descending order

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57
papers

1,813
citations

304743

22
h-index

276875

41
g-index

57
all docs

57
docs citations

57
times ranked

1401
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced tensile properties of aluminium matrix composites reinforced with graphene encapsulated SiC nanoparticles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 68, 155-163.	7.6	217
2	Stir casting process for manufacture of Al-SiC composites. <i>Rare Metals</i> , 2017, 36, 581-590.	7.1	171
3	Fabrication of aluminum matrix composites reinforced with nano- to micrometer-sized SiC particles. <i>Materials and Design</i> , 2016, 89, 58-70.	7.0	143
4	Strengthening mechanisms of graphene sheets in aluminium matrix nanocomposites. <i>Materials and Design</i> , 2015, 88, 983-989.	7.0	138
5	Revealing relationships between microstructure and hardening nature of additively manufactured 316L stainless steel. <i>Materials and Design</i> , 2021, 198, 109385.	7.0	97
6	Microstructural and mechanical properties of Al-4.5wt% Cu reinforced with alumina nanoparticles by stir casting method. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 978-985.	4.9	63
7	Study of the plastic deformation mechanism of TRIP-TWIP high entropy alloys at the atomic level. <i>International Journal of Plasticity</i> , 2020, 127, 102649.	8.8	59
8	Enhanced mechanical properties of in situ aluminium matrix composites reinforced by alumina nanoparticles. <i>Archives of Civil and Mechanical Engineering</i> , 2018, 18, 215-226.	3.8	58
9	Advanced production routes for metal matrix composites. <i>Engineering Reports</i> , 2021, 3, e12330.	1.7	56
10	Tensile properties of AlCrCoFeCuNi glassy alloys: A molecular dynamics simulation study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 143-151.	5.6	53
11	Mechanical properties of rolled A356 based composites reinforced by Cu-coated bimodal ceramic particles. <i>Materials and Design</i> , 2015, 83, 678-688.	7.0	52
12	Effect of interfacial-active elements addition on the incorporation of micron-sized SiC particles in molten pure aluminum. <i>Ceramics International</i> , 2014, 40, 8323-8332.	4.8	49
13	Effect of electroless coating parameters and ceramic particle size on fabrication of a uniform Ni-P coating on SiC particles. <i>Ceramics International</i> , 2014, 40, 12149-12159.	4.8	47
14	Graphene sheets encapsulating SiC nanoparticles: A roadmap towards enhancing tensile ductility of metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 92-103.	5.6	44
15	Determination of atomic-scale structure and compressive behavior of solidified Al _x CrCoFeCuNi high entropy alloys. <i>International Journal of Mechanical Sciences</i> , 2020, 171, 105389.	6.7	33
16	Cyclic response of additive manufactured 316L stainless steel: The role of cell structures. <i>Scripta Materialia</i> , 2021, 205, 114190.	5.2	33
17	A comparison study of applying metallic coating on SiC particles for manufacturing of cast aluminum matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 433-444.	3.0	28
18	Failure analysis of a shell and tube oil cooler. <i>Engineering Failure Analysis</i> , 2011, 18, 202-211.	4.0	27

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19	A Novel Method for Incorporation of Micron-Sized SiC Particles into Molten Pure Aluminum Utilizing a Co Coating. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 12-19.	2.1	27
20	Solvothermal-assisted graphene encapsulation of SiC nanoparticles: A new horizon toward toughening aluminium matrix nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 653, 99-107.	5.6	27
21	Microwave-assisted combustion synthesis in a mechanically activated Al-TiO ₂ -H ₃ BO ₃ system. <i>International Journal of Refractory Metals and Hard Materials</i> , 2011, 29, 281-288.	3.8	26
22	Manufacturing of cast A356 matrix composite reinforced with nano- to micrometer-sized SiC particles. <i>Rare Metals</i> , 2017, 36, 46-54.	7.1	24
23	Superior low cycle fatigue property from cell structures in additively manufactured 316L stainless steel. <i>Journal of Materials Science and Technology</i> , 2022, 111, 268-278.	10.7	24
24	Post-treatment of additively manufactured Fe-Cr-Ni stainless steels by high pressure torsion: TRIP effect. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 811, 141086.	5.6	22
25	Mechanical activation process for self-propagation high-temperature synthesis of ceramic-based composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 123-133.	3.6	20
26	Effect of mechanical activation of reagents mixture on the high-temperature synthesis of Al ₂ O ₃ -TiB ₂ composite powder. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 1063-1070.	3.6	19
27	Strength-ductility trade-off via SiC nanoparticle dispersion in A356 aluminium matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138639.	5.6	19
28	Incorporation of SiC Ceramic Nanoparticles into the Aluminum Matrix by a Novel Method: Production of a Metal Matrix Composite. <i>Metals and Materials International</i> , 2021, 27, 2968-2976.	3.4	19
29	Electroless deposition (ED) of copper coating on micron-sized SiC particles. <i>Surface Engineering</i> , 2014, 30, 747-751.	2.2	18
30	Empirical model to predict mass gain of cobalt electroless deposition on ceramic particles using response surface methodology. <i>Rare Metals</i> , 2017, 36, 209-219.	7.1	17
31	Molecular dynamic simulation of edge dislocation-void interaction in pure Al and Al-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 82-90.	5.6	16
32	Microstructure and morphological study of ball-milled metal matrix nanocomposites. <i>Physics of Metals and Metallography</i> , 2017, 118, 749-758.	1.0	14
33	Microstructural characterization of ball-milled metal matrix nanocomposites (Cr, Ni, Ti)-25 wt% (Al ₂ O ₃ , SiC). <i>Particulate Science and Technology</i> , 2018, 36, 72-83.	2.1	13
34	Improving precision in the prediction of laser texturing and surface interference of 316L assessed by neural network and adaptive neuro-fuzzy inference models. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 4571-4580.	3.0	12
35	Study on the incorporation of ceramic nanoparticles into the semi-solid A356 melt. <i>Materials Chemistry and Physics</i> , 2019, 230, 25-36.	4.0	12
36	Dynamic recrystallization's role in strength-ductility trade-off in polycrystalline Fe-Cr-Ni stainless steels produced by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141214.	5.6	11

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37	Effect of SiC particle morphology on Co-P electroless coating characteristics. <i>Surface Engineering</i> , 2016, 32, 391-396.	2.2	10
38	Fabrication of an r-Al ₂ Ti intermetallic matrix composite reinforced with $\hat{\text{I}}\pm$ -Al ₂ O ₃ ceramic by discontinuous mechanical milling for thermite reaction. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 1037-1043.	4.9	9
39	Effect of Fe ₂ O ₃ as an accelerator on the reaction mechanism of Al-TiO ₂ nanothermite system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 711-719.	3.6	9
40	Incorporation of Silicon Carbide and Alumina Particles into the Melt of A356 via Electroless Metallic Coating Followed by Stir Casting. <i>Silicon</i> , 2018, 10, 2353-2359.	3.3	8
41	Nano-scale simulation of directional solidification in TWIP stainless steels: A focus on plastic deformation mechanisms. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 812, 140999.	5.6	8
42	Sintering behavior and microwave dielectric properties of SiO ₂ -MgO-Al ₂ O ₃ -TiO ₂ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 3570-3575.	2.2	7
43	Filling ratio of vial. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 1097-1103.	3.6	6
44	A comparison between hot-rolling process and twin-screw rheo-extrusion process for fabrication of aluminum matrix nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 760, 152-157.	5.6	6
45	Effect of Hydrogen on the Tensile Behavior of Austenitic Stainless Steels 316L Produced by Laser-Powder Bed Fusion. <i>Metals</i> , 2021, 11, 586.	2.3	6
46	Corrosion behaviour of rolled A356 matrix composite reinforced with ceramic particles. <i>International Journal of Materials Research</i> , 2016, 107, 1100-1111.	0.3	5
47	Fabrication of A356-based rolled composites reinforced by Ni-P-coated bimodal ceramic particles. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018, 232, 803-815.	1.1	5
48	Manufacturing of copper coated SiC ceramic particles for metal matrix composites: optimizing the electroless deposition parameters. <i>Materials Research Express</i> , 2018, 5, 106515.	1.6	5
49	Development of BMG-B2 nanocomposite structure in HAZ during laser surface processing of ZrCuNiAlTi bulk metallic glasses. <i>Applied Surface Science</i> , 2020, 505, 144535.	6.1	5
50	A three-step synthesis process of submicron boron carbide powders using microwave energy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 579-588.	3.6	4
51	High-resolution EBSD characterisation of friction stir welded nickel-copper alloy: effect of the initial microstructure on microstructural evolution and mechanical properties. <i>Philosophical Magazine</i> , 2020, 100, 337-352.	1.6	4
52	Thermal analysis of mechanically activated Al-(Fe ₂ O ₃ , MoO ₃ , and MnO ₂) metastable intermolecular composites. <i>Materials Research Express</i> , 2019, 6, 055516.	1.6	3
53	Dry Milling of Aluminum and Ceramic Nanoparticles for a Particulate-Injection Casting of Aluminum Matrix Nanocomposites. <i>Silicon</i> , 2020, 12, 913-920.	3.3	3
54	Optimizing the mass gain percentage during Ni electroless deposition on the SiC ceramic particles. <i>Materials Research Express</i> , 2018, 5, 096506.	1.6	2

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55	Hot rolling effects on as-cast aluminum matrix nanocomposites reinforced by nano-sized ceramic powders. AIP Conference Proceedings, 2019, , .	0.4	0
56	Semi-solid stirring of modified ceramic nanoparticles using iron and nickel in an aluminum A356 melt. Materials Research Express, 2019, 6, 096553.	1.6	0
57	Enhanced organic species identification via laser structuring of carbon monolithic surfaces. Applied Surface Science, 2019, 493, 829-837.	6.1	0