

R Taherzadeh Mousavian

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | Advanced production routes for metal matrix composites. <i>Engineering Reports</i> , 2021, 3, e12330. | 1.7 | 56 |
| 4 | Revealing relationships between microstructure and hardening nature of additively manufactured 316L stainless steel. <i>Materials and Design</i> , 2021, 198, 109385. | 7.0 | 97 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Cyclic response of additive manufactured 316L stainless steel: The role of cell structures. <i>Scripta Materialia</i> , 2021, 205, 114190. | 5.2 | 33 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Hot rolling effects on as-cast aluminum matrix nanocomposites reinforced by nano-sized ceramic powders. <i>AIP Conference Proceedings</i> , 2019, , . | 0.4 | 0 |
| 17 | Semi-solid stirring of modified ceramic nanoparticles using iron and nickel in an aluminum A356 melt. <i>Materials Research Express</i> , 2019, 6, 096553. | 1.6 | 0 |
| 18 | Enhanced organic species identification via laser structuring of carbon monolithic surfaces. <i>Applied Surface Science</i> , 2019, 493, 829-837. | 6.1 | 0 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | Fabrication of A356-based rolled composites reinforced by Ni ²⁺ -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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Stir casting process for manufacture of Al ²⁺ -SiC composites. <i>Rare Metals</i> , 2017, 36, 581-590. | 7.1 | 171 |
| 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 | 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 |
| 32 | 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 |
| 33 | Microstructure and morphological study of ball-milled metal matrix nanocomposites. <i>Physics of Metals and Metallography</i> , 2017, 118, 749-758. | 1.0 | 14 |
| 34 | Effect of SiC particle morphology on Co ²⁺ -P electroless coating characteristics. <i>Surface Engineering</i> , 2016, 32, 391-396. | 2.2 | 10 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Filling ratio of vial. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 1097-1103. | 3.6 | 6 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Strengthening mechanisms of graphene sheets in aluminium matrix nanocomposites. <i>Materials and Design</i> , 2015, 88, 983-989. | 7.0 | 138 |
| 47 | 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 |
| 48 | 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 |
| 49 | Fabrication of an r-Al2Ti intermetallic matrix composite reinforced with $\hat{\text{I}}\pm\text{-Al}_2\text{O}_3$ ceramic by discontinuous mechanical milling for thermite reaction. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 1037-1043. | 4.9 | 9 |
| 50 | 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 |
| 51 | Effect of Fe2O3 as an accelerator on the reaction mechanism of Al-TiO2 nanothermite system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 711-719. | 3.6 | 9 |
| 52 | Electroless deposition (ED) of copper coating on micron-sized SiC particles. <i>Surface Engineering</i> , 2014, 30, 747-751. | 2.2 | 18 |
| 53 | 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 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | Microwave-assisted combustion synthesis in a mechanically activated Al-TiO ₂ -H ₃ BO ₃ system. International Journal of Refractory Metals and Hard Materials, 2011, 29, 281-288. | 3.8 | 26 |
| 56 | Effect of mechanical activation of reagents mixture on the high-temperature synthesis of Al ₂ O ₃ -TiB ₂ composite powder. Journal of Thermal Analysis and Calorimetry, 2011, 104, 1063-1070. | 3.6 | 19 |
| 57 | Failure analysis of a shell and tube oil cooler. Engineering Failure Analysis, 2011, 18, 202-211. | 4.0 | 27 |