Alireza Zargaran

List of Publications by Year in descending order

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| | | 236833 | 265120 |
|----------|-----------------|--------------|----------------|
| 52 | 1,920 citations | 25 | 42 |
| papers | citations | h-index | g-index |
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| 53 | 53 | 53 | 1114 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|-------------|-----------|
| 1 | 1.7 Gpa tensile strength in ferrous medium entropy alloy via martensite and precipitation. Materials Letters, 2022, 307, 130958. | 1.3 | 7 |
| 2 | Deformation-induced grain boundary segregation mediated high-strain rate superplasticity in medium entropy alloy. Scripta Materialia, 2022, 207, 114239. | 2.6 | 32 |
| 3 | Architectured heterogeneous alloys with selective laser melting. Scripta Materialia, 2022, 208, 114332. | 2.6 | 27 |
| 4 | Superlative room temperature and cryogenic tensile properties of nanostructured CoCrFeNi medium-entropy alloy fabricated by powder high-pressure torsion. Scripta Materialia, 2022, 213, 114631. | 2.6 | 12 |
| 5 | Role of cellular structure on deformation twinning and hetero-deformation induced strengthening of laser powder-bed fusion processed CuSn alloy. Additive Manufacturing, 2022, 54, 102744. | 1.7 | 5 |
| 6 | The subsurface deformed region and superficial protective tribo-oxide layer during wear in a non-equiatomic CoCrFeNiV high entropy alloy. Materials and Design, 2022, 218, 110685. | 3.3 | 17 |
| 7 | A powder-metallurgy-based fabrication route towards achieving high tensile strength with ultra-high ductility in high-entropy alloy. Scripta Materialia, 2021, 190, 69-74. | 2.6 | 50 |
| 8 | Enhanced cryogenic tensile properties with multi-stage strain hardening through partial recrystallization in a ferrous medium-entropy alloy. Scripta Materialia, 2021, 194, 113653. | 2.6 | 36 |
| 9 | Unusual strain-induced martensite and absence of conventional grain refinement in twinning induced plasticity high-entropy alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140570. | 2.6 | 17 |
| 10 | Effect of 1Al addition on deformation behavior of Mg. Journal of Magnesium and Alloys, 2021, 9, 489-498. | 5.5 | 24 |
| 11 | Effects of Al addition on tensile properties of partially recrystallized austenitic TRIP/TWIP steels. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2021, 806, 140823. | 2.6 | 24 |
| 12 | Architectured multi-metal CoCrFeMnNi-Inconel 718 lamellar composite by high-pressure torsion. Scripta Materialia, 2021, 195, 113722. | 2.6 | 28 |
| 13 | Synergetic strengthening from grain refinement and nano-scale precipitates in non-equiatomic CoCrFeNiMo medium-entropy alloy. Intermetallics, 2021, 135, 107212. | 1.8 | 20 |
| 14 | Aluminum-alloyed lightweight stainless steels strengthened by B2-(Ni,Fe)Al precipitates. Materials and Design, 2021, 206, 109813. | 3.3 | 6 |
| 15 | Simultaneous effects of deformation-induced plasticity and precipitation hardening in metastable non-equiatomic FeNiCoMnTiSi ferrous medium-entropy alloy at room and liquid nitrogen temperatures. Scripta Materialia, 2021, 202, 114013. | 2.6 | 28 |
| 16 | \hat{P} -Carbide assisted nucleation of B2: A novel pathway to develop high specific strength steels. Acta Materialia, 2021, 220, 117349. | 3.8 | 23 |
| 17 | Deformation behavior of a Co-Cr-Fe-Ni-Mo medium-entropy alloy at extremely low temperatures. Materials Today, 2021, 50, 55-68. | 8. 3 | 51 |
| 18 | 2.3 GPa cryogenic strength through thermal-induced and deformation-induced body-centered cubic martensite in a novel ferrous medium entropy alloy. Scripta Materialia, 2021, 204, 114157. | 2.6 | 26 |

| # | Article | IF | Citations |
|----|--|-----|-----------|
| 19 | Delayed deformation-induced martensite transformation and enhanced cryogenic tensile properties in laser additive manufactured 316L austenitic stainless steel. Additive Manufacturing, 2021, 47, 102314. | 1.7 | 13 |
| 20 | TiC-reinforced CoCrFeMnNi composite processed by cold-consolidation and subsequent annealing. Materials Letters, 2021, 303, 130503. | 1.3 | 13 |
| 21 | Nano-scale heterogeneity-driven metastability engineering in ferrous medium-entropy alloy induced by additive manufacturing. Acta Materialia, 2021, 221, 117426. | 3.8 | 58 |
| 22 | Metastability engineering of partially recrystallized C-doped non-equiatomic CoCrFeNiMo medium-entropy alloy. Applied Physics Letters, 2021, 119, . | 1.5 | 16 |
| 23 | Microstructure and Tensile Properties of Ferritic Lightweight Steel Produced by Twin-Roll Casting. Metals and Materials International, 2020, 26, 75-82. | 1.8 | 16 |
| 24 | Effect of Initial Grain Size on Deformation Mechanism during Highâ€Pressure Torsion in V 10 Cr 15 Mn 5 Fe 35 Co 10 Ni 25 Highâ€Entropy Alloy. Advanced Engineering Materials, 2020, 22, 1900587. | 1.6 | 21 |
| 25 | Novel precipitation and enhanced tensile properties in selective laser melted Cu-Sn alloy. Materialia, 2020, 13, 100861. | 1.3 | 21 |
| 26 | Ultrahigh high-strain-rate superplasticity in a nanostructured high-entropy alloy. Nature Communications, 2020, 11, 2736. | 5.8 | 116 |
| 27 | Improvement of strength – ductility balance of B2-strengthened lightweight steel. Acta Materialia, 2020, 191, 1-12. | 3.8 | 100 |
| 28 | Effects of Cu addition on formability and surface delamination phenomenon in high-strength high-Mn steels. Journal of Materials Science and Technology, 2020, 43, 44-51. | 5.6 | 9 |
| 29 | Effect of Initial Grain Size on Deformation Mechanism during Highâ€Pressure Torsion in V ₁₀ Cr ₁₅ Mn ₅ Fe ₃₅ Co ₁₀ Ni ₂₅ Highâ€Entropy Alloy. Advanced Engineering Materials, 2020, 22, 2070002. | 1.6 | 1 |
| 30 | Effect of annealing conditions on the microstructure and tensile properties of 0.5â€√ containing Fe-16Mn-0.8C-0.5Si steel. Scripta Materialia, 2019, 172, 125-129. | 2.6 | 7 |
| 31 | Exceptional cryogenic strength-ductility synergy in Al0.3CoCrNi medium-entropy alloy through heterogeneous grain structure and nano-scale precipitates. Materials Science & Dipineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138372. | 2.6 | 50 |
| 32 | Achieving high strength and high ductility in Al0.3CoCrNi medium-entropy alloy through multi-phase hierarchical microstructure. Materialia, 2019, 8, 100442. | 1.3 | 47 |
| 33 | FCC to BCC transformation-induced plasticity based on thermodynamic phase stability in novel V10Cr10Fe45CoxNi35â^'x medium-entropy alloys. Scientific Reports, 2019, 9, 2948. | 1.6 | 71 |
| 34 | Effect of B2 morphology on the mechanical properties of B2-strengthened lightweight steels. Scripta Materialia, 2019, 165, 68-72. | 2.6 | 48 |
| 35 | Cu addition effects on TRIP to TWIP transition and tensile property improvement of ultra-high-strength austenitic high-Mn steels. Acta Materialia, 2019, 166, 246-260. | 3.8 | 50 |
| 36 | Effect of grain size on the tensile behavior of V10Cr15Mn5Fe35Co10Ni25 high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 610-617. | 2.6 | 51 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Effects of solute segregation on tensile properties and serration behavior in ultra-high-strength high-Mn TRIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 740-741, 16-27. | 2.6 | 28 |
| 38 | Utilization of brittle if phase for strengthening and strain hardening in ductile VCrFeNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 665-674. | 2.6 | 67 |
| 39 | Novel medium-Mn (austeniteÂ+Âmartensite) duplex hot-rolled steel achieving 1.6ÂGPa strength with 20 % ductility by Mn-segregation-induced TRIP mechanism. Acta Materialia, 2018, 147, 247-260. | 3.8 | 114 |
| 40 | Exceptional combination of ultra-high strength and excellent ductility by inevitably generated Mn-segregation in austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 737, 69-76. | 2.6 | 12 |
| 41 | Designing a magnesium alloy with high strength and high formability. Nature Communications, 2018, 9, 2522. | 5.8 | 321 |
| 42 | Effect of stacking faults on the ductility of Fe-18Mn-1.5Al-0.6C twinning-induced plasticity steel at low temperatures. Scripta Materialia, 2017, 137, 18-21. | 2.6 | 34 |
| 43 | Improvement of impact toughness of 5Mn-1Al-0.5Ti steel by intercritical annealing. Metals and Materials International, 2017, 23, 283-289. | 1.8 | 14 |
| 44 | Effect of C content on the microstructure and tensile properties of lightweight ferritic Fe-8Al-5Mn-0.1Nb alloy. Metals and Materials International, 2015, 21, 79-84. | 1.8 | 25 |
| 45 | Microstructural evolution and deformation behavior of twinning-induced plasticity (TWIP) steel during wire drawing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 41-52. | 2.6 | 58 |
| 46 | Effect of reduction of area on microstructure and mechanical properties of twinning-induced plasticity steel during wire drawing. Metals and Materials International, 2015, 21, 815-822. | 1.8 | 33 |
| 47 | Effects of Nb and C additions on the microstructure and tensile properties of lightweight ferritic Fe–8Al–5Mn alloy. Scripta Materialia, 2014, 89, 37-40. | 2.6 | 45 |
| 48 | The hot formability of an Al-Cu-Mg-Fe-Ni forging disk. Jom, 2010, 62, 37-41. | 0.9 | 4 |
| 49 | High temperature tensile behavior of a PH stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4727-4732. | 2.6 | 12 |
| 50 | Low-cycle fatigue behavior of AA2618-T61 forged disk. Materials & Design, 2010, 31, 4104-4109. | 5.1 | 11 |
| 51 | A Powder-Metallurgy-Based Fabrication Route Towards Achieving High Tensile Strength with Ultra-High Ductility in High-Entropy Alloy. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 52 | The influence of laser powder-bed fusion microstructures on the corrosion behavior of CuSn alloy. Journal of Materials Science, 0, , 1. | 1.7 | 1 |