

Niloofer Eftekhari

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The effects of friction-stir process parameters on the fabrication of Ti/SiC nano-composite surface layer. <i>Surface and Coatings Technology</i> , 2011, 206, 1372-1381. | 4.8 | 107 |
| 2 | A comparative study on the capability of Johnsonâ€“Cook and Arrhenius-type constitutive equations to describe the flow behavior of Mgâ€“6Alâ€“1Zn alloy. <i>Mechanics of Materials</i> , 2014, 71, 52-61. | 3.2 | 103 |
| 3 | Hot deformation characterization of duplex low-density steel through 3D processing map development. <i>Materials Characterization</i> , 2015, 107, 293-301. | 4.4 | 73 |
| 4 | Flow softening and dynamic recrystallization behavior of BT9 titanium alloy: A study using process map development. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1706-1718. | 5.5 | 69 |
| 5 | Microstructure and superior mechanical properties of a multi-axially forged WE magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2017, 693, 406-413. | 5.5 | 64 |
| 6 | Modified constitutive analysis and activation energy evolution of a low-density steel considering the effects of deformation parameters. <i>Mechanics of Materials</i> , 2016, 95, 60-70. | 3.2 | 62 |
| 7 | Effect of the Zenerâ€“Hollomon parameter on the microstructure evolution of dual phase TWIP steel subjected to friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 15-19. | 5.6 | 61 |
| 8 | The effect of thermomechanical parameters on the eutectic silicon characteristics in a non-modified cast A356 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 549, 93-99. | 5.6 | 57 |
| 9 | Constitutive description of high temperature flow behavior of Sanicro-28 super-austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 589, 76-82. | 5.6 | 56 |
| 10 | The high temperature flow behavior modeling of NiTi shape memory alloy employing phenomenological and physical based constitutive models: A comparative study. <i>Intermetallics</i> , 2014, 53, 140-149. | 3.9 | 55 |
| 11 | Enhancing the strength and ductility in accumulative back extruded WE43 magnesium alloy through achieving bimodal grain size distribution and texture weakening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 218-229. | 5.6 | 54 |
| 12 | Hot ductility behavior of an extruded 7075 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 637, 107-122. | 5.6 | 53 |
| 13 | Reversible dislocation movement, martensitic transformation and nano-twinning during elastic cyclic loading of a metastable high entropy alloy. <i>Acta Materialia</i> , 2020, 185, 474-492. | 7.9 | 48 |
| 14 | Temperature dependence of plastic deformation mechanisms in a modified transformation-twinning induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 579, 150-156. | 5.6 | 46 |
| 15 | Strain induced transformation, dynamic recrystallization and texture evolution during hot compression of an extruded Mg-Cd-Y-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 778, 139021. | 5.6 | 41 |
| 16 | Room temperature mechanical properties and microstructure of a low alloyed TRIP-assisted steel subjected to one-step and two-step quenching and partitioning process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 341-349. | 5.6 | 39 |
| 17 | An investigation into the fracture mechanisms of twinning-induced-plasticity steel sheets under various strain paths. <i>Journal of Materials Processing Technology</i> , 2015, 224, 102-116. | 6.3 | 35 |
| 18 | The Grain Structure and Phase Transformations of TWIP Steel During Friction Stir Processing. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2826-2835. | 2.5 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Latest Developments in Modeling and Characterization of Joining Metal Based Hybrid Materials. Advanced Engineering Materials, 2018, 20, 1800048. | 3.5 | 32 |
| 20 | An investigation into the mechanical behavior of a new transformation-twinning induced plasticity steel. Materials & Design, 2012, 39, 279-284. | 5.1 | 31 |
| 21 | Production of in-situ hard Ti/TiN composite surface layers on CP-Ti using reactive friction stir processing under nitrogen environment. Surface and Coatings Technology, 2013, 218, 62-70. | 4.8 | 29 |
| 22 | In situ identification of elastic-plastic strain distribution in a microalloyed transformation induced plasticity steel using digital image correlation. Optics and Lasers in Engineering, 2014, 54, 79-87. | 3.8 | 29 |
| 23 | The Correlation of Macrostructure, Microstructure, and Texture with Room Temperature Mechanical Properties of a Twinning-Induced Plasticity Automotive Steel after Friction Stir Spot Welding/Processing. Steel Research International, 2018, 89, 1800245. | 1.8 | 29 |
| 24 | The enhanced static recrystallization kinetics of a non-equiatom high entropy alloy through the reverse transformation of strain induced martensite. Journal of Alloys and Compounds, 2019, 806, 1550-1563. | 5.5 | 29 |
| 25 | High Temperature Formability Prediction of Dual Phase Brass Using Phenomenological and Physical Constitutive Models. Journal of Materials Engineering and Performance, 2015, 24, 209-220. | 2.5 | 28 |
| 26 | High-temperature flow characterization and microstructural evolution of Ti6242 alloy: Yield drop phenomenon. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 346-354. | 5.6 | 26 |
| 27 | The Mg ₂ Si phase evolution during thermomechanical processing of in-situ aluminum matrix macro-composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 310-317. | 5.6 | 25 |
| 28 | Flow Characterization of a Duplex near α/β Ti6242 Alloy through Interrelation of Microstructural Evolution, 3D Activation Energy Map, and Processing Map. Advanced Engineering Materials, 2016, 18, 1075-1085. | 3.5 | 25 |
| 29 | Evolution of microstructure and mechanical properties in a cold deformed nitrogen bearing TRIP-assisted duplex stainless steel after reversion annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 683, 83-89. | 5.6 | 25 |
| 30 | Poly(lactic Acid) Piezo-Biopolymers: Chemistry, Structural Evolution, Fabrication Methods, and Tissue Engineering Applications. Journal of Functional Biomaterials, 2021, 12, 71. | 4.4 | 25 |
| 31 | Dynamic restoration of the ferrite and austenite phases during hot compressive deformation of a lean duplex stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139400. | 5.6 | 23 |
| 32 | Dynamic dissolution and transformation of LPSO phase during thermomechanical processing of a GWZ magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 85-98. | 5.6 | 22 |
| 33 | Microstructural evolution and mechanical properties of thermomechanically processed AZ31 magnesium alloy reinforced by micro-graphite and nano-graphene particles. Journal of Alloys and Compounds, 2020, 815, 152231. | 5.5 | 22 |
| 34 | The high temperature mechanical properties and the correlated microstructure/ texture evolutions of a TWIP high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140600. | 5.6 | 22 |
| 35 | Transformation and twinning induced plasticity in an advanced high Mn austenitic steel processed by martensite reversion treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 511-519. | 5.6 | 21 |
| 36 | Dynamic recrystallization behavior of new transformation-twinning induced plasticity steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 397-408. | 5.6 | 20 |

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| 37 | Approving Restoration Mechanism in 7075 Aluminum Alloy through Constitutive Flow Behavior Modeling. <i>Advanced Engineering Materials</i> , 2016, 18, 989-1000. | 3.5 | 20 |
| 38 | On the Stacking Fault Energy Evaluation and Deformation Mechanism of Sanicro-28 Super-Austenitic Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2335-2340. | 2.5 | 19 |
| 39 | Comprehensive Deformation Analysis of a Newly Designed Ni-Free Duplex Stainless Steel with Enhanced Plasticity by Optimizing Austenite Stability. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3675-3691. | 2.2 | 19 |
| 40 | The sequential twinning-transformation induced plasticity effects in a thermomechanically processed high Mn austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 242-249. | 5.6 | 18 |
| 41 | Thermal stability of an ultrafine-grained dual phase TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 5-14. | 5.6 | 17 |
| 42 | Characterization of twin-like structure in a ferrite-based lightweight steel. <i>Metals and Materials International</i> , 2016, 22, 810-816. | 3.4 | 17 |
| 43 | The wear induced crystallographic texture transition in Ti-29Nb-14Ta-4.5Zr alloy. <i>Applied Surface Science</i> , 2019, 491, 360-373. | 6.1 | 16 |
| 44 | Room-temperature micro and macro mechanical properties of the metastable Ti-29Nb-14Ta-4.5Zr alloy holding nano-sized precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138583. | 5.6 | 16 |
| 45 | An investigation into microstructure and high-temperature mechanical properties of selective laser-melted 316L stainless steel toward the development of hybrid Ampliforge process. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 383-394. | 3.0 | 16 |
| 46 | A new insight into LPSO transformation during multi-axial forging in Mg-Gd-Y-Zn-Zr alloy. <i>Materials Letters</i> , 2020, 269, 127625. | 2.6 | 16 |
| 47 | Unraveling the effect of deformation-induced phase transformation on microstructure and micro-texture evolution of a multi-axially forged Mg-Gd-Y-Zn-Zr alloy containing the LPSO phase. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2088-2101. | 5.8 | 16 |
| 48 | On the microstructure and RE-texture evolution during hot tensile deformation of Mg-Gd-Y-Zn-Zr alloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6974-6989. | 5.8 | 16 |
| 49 | Evaluating the Hot Deformation Behavior of a Super-Austenitic Steel Through Microstructural and Neural Network Analysis. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2412-2421. | 2.5 | 15 |
| 50 | Hot Deformation and Dynamic Recrystallization of Ti-6Al-7Nb Biomedical Alloy in Single-Phase β^2 Region. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1799-1808. | 2.5 | 15 |
| 51 | The enhancement of transformation induced plasticity effect through preferentially oriented substructure development in a high entropy alloy. <i>Intermetallics</i> , 2019, 109, 145-156. | 3.9 | 15 |
| 52 | An investigation into the polylactic acid texturization through thermomechanical processing and the improved d33 piezoelectric outcome of the fabricated scaffolds. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6356-6366. | 5.8 | 15 |
| 53 | The microstructure evolution and room temperature deformation behavior of ferrite-based lightweight steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 665, 10-16. | 5.6 | 14 |
| 54 | The grain boundary character distribution in thermomechanically processed rare earth bearing magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2019, 798, 158-166. | 5.5 | 14 |

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| 55 | High-Temperature Wear Mechanisms of a Severely Plastic Deformed Al/Mg ₂ Si Composite. <i>Journal of Tribology</i> , 2019, 141, . | 1.9 | 14 |
| 56 | On the microstructural-textural characterization and deformation analysis of a nano/ultrafine grained Fe-20Cr-8Mn-0.3N duplex alloy with superior mechanical properties. <i>Materials Characterization</i> , 2019, 156, 109878. | 4.4 | 13 |
| 57 | Outstanding Mild Wear Performance of Ti-29Nb-14Ta-4.5Zr Alloy Through Subsurface Grain Refinement and Supporting Effect of Transformation Induced Plasticity. <i>Metals and Materials International</i> , 2020, 26, 467-476. | 3.4 | 13 |
| 58 | The high temperature deformation behavior of a triplex (ferrite+ austenite+ martensite) low density steel. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1388-1401. | 5.8 | 13 |
| 59 | On the warm temperature strain accommodation mechanisms of Ti-6Al-4V alloy holding different starting microstructures. <i>Journal of Materials Research and Technology</i> , 2021, 14, 496-506. | 5.8 | 13 |
| 60 | Effects of ferrite phase characteristics on microstructure and mechanical properties of thermomechanically-processed low-silicon content TRIP-assisted steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 229-236. | 5.6 | 12 |
| 61 | Processing Map Development through Elaborating Phenomenological and Physical Constitutive Based Models. <i>Advanced Engineering Materials</i> , 2016, 18, 572-581. | 3.5 | 12 |
| 62 | An investigation into the warm deformation behavior of Ti-6Al-1.5Cr-2.5Mo-0.5Fe-0.3Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 654, 264-270. | 5.6 | 12 |
| 63 | Grain Refinement through Shear Banding in Severely Plastic Deformed A206 Aluminum Alloy. <i>Advanced Engineering Materials</i> , 2018, 20, 1700502. | 3.5 | 12 |
| 64 | The effect of nano-size second precipitates on the structure, apatite-inducing ability and in-vitro biocompatibility of Ti-29Nb-14Ta-4.5Zr alloy. <i>Materials Science and Engineering C</i> , 2020, 109, 110561. | 7.3 | 12 |
| 65 | Decelerated grain growth kinetic and effectiveness of Hall-Petch relationship in a cold-rolled non-equiatomic high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021, 874, 159849. | 5.5 | 12 |
| 66 | The enhanced warm temperature ductility of Ti-6Al-4V alloy through strain induced martensite reversion and recrystallization. <i>Materials Letters</i> , 2021, 302, 130405. | 2.6 | 12 |
| 67 | The Enhanced Shape Memory Effect and Mechanical Properties in Thermomechanically Processed Semi-Equiatomic NiTi Shape Memory Alloy. <i>Advanced Engineering Materials</i> , 2016, 18, 251-258. | 3.5 | 11 |
| 68 | Deformation behavior of a high-plasticity nano/ultrafine-grained N-bearing duplex stainless steel: Twin/twin-like induced plasticity effect. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 637-640. | 5.6 | 11 |
| 69 | Substructure Development and Deformation Twinning Stimulation through Regulating the Processing Path during Multi-Axial Forging of Twinning Induced Plasticity Steel. <i>Advanced Engineering Materials</i> , 2018, 20, 1800453. | 3.5 | 11 |
| 70 | In-situ frictional grain refinement of Ti-29Nb-14Ta-4.5Zr bio-alloy during high-speed sliding wear. <i>Materials Letters</i> , 2020, 261, 127083. | 2.6 | 11 |
| 71 | Stress-relaxation viewpoint to study the room-temperature cyclic deformation behavior of a low-density steel. <i>International Journal of Fatigue</i> , 2020, 139, 105673. | 5.7 | 11 |
| 72 | An investigation into the room temperature mechanical properties and microstructural evolution of thermomechanically processed TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 596, 200-206. | 5.6 | 10 |

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| 73 | Correlation of Strain Accommodation Factor with the State of Microstructural Components in a Multiphase Steel. <i>ISIJ International</i> , 2015, 55, 2406-2415. | 1.4 | 10 |
| 74 | Effect of Intercritical Thermomechanical Processing on Austenite Retention and Mechanical Properties in a Multiphase TRIP-Assisted Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 436-449. | 2.2 | 10 |
| 75 | Surface Modification of Titanium by Producing Ti/TiN Surface Composite Layers via FSP. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 550-557. | 2.9 | 10 |
| 76 | Microstructural Evolution and Texture Analysis in a Thermomechanically Processed Low SFE Superâ€Austenitic Steel (Alloyâ€28). <i>Advanced Engineering Materials</i> , 2018, 20, 1700928. | 3.5 | 10 |
| 77 | Microstructural evolution and mechanical properties of accumulative back extruded duplex ($\hat{1}\hat{+}\hat{+}\hat{2}$) brass. <i>Materials Characterization</i> , 2019, 152, 101-114. | 4.4 | 10 |
| 78 | The strain accommodation in Tiâ€28Nbâ€12Taâ€5Zr alloy during warm deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 592, 57-63. | 5.6 | 9 |
| 79 | Optimum Deformation Criteria and Flow Behavior Description of Boron-Alloyed Steel through Numerical Approach. <i>Steel Research International</i> , 2016, 87, 1657-1669. | 1.8 | 9 |
| 80 | Effect of Severe Plastic Deformation and Subsequent Silicon Spheroidizing Treatment on the Microstructure and Mechanical Properties of an Alâ€Siâ€Mg Alloy. <i>Advanced Engineering Materials</i> , 2017, 19, 1700064. | 3.5 | 9 |
| 81 | Ductility improvement in AZ31 magnesium alloy using constrained compression testing technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 576, 74-81. | 5.6 | 8 |
| 82 | High-Temperature Deformation Characteristics of a $\hat{2}$ -Type Ti-29Nb-13Ta-4.6Zr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1554-1561. | 2.5 | 8 |
| 83 | Correlation between warm deformation characteristics and mechanical properties of a new TRIP-assisted Feâ€Mnâ€Ni steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 27-34. | 5.6 | 8 |
| 84 | Toward Unraveling the High Temperature Microstructure Processing Properties Relationship in a Niâ€Free High Nitrogen Bearing Duplex Stainless Steel. <i>Steel Research International</i> , 2018, 89, 1700532. | 1.8 | 8 |
| 85 | Dynamic strain aging and twin formation during warm deformation of a novel medium-entropy lightweight steel. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1628-1641. | 5.8 | 8 |
| 86 | Microstructural evolution and room temperature mechanical properties of AZ31 alloy processed through hot constrained compression. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 2307-2317. | 3.0 | 7 |
| 87 | Asymmetrical superelastic behavior of thermomechanically processed semi-equiatomic NiTi alloy in tensile and compressive modes of deformation. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160443. | 5.5 | 7 |
| 88 | The Microstructure Evolution of a High Zrâ€Containing WE Magnesium Alloy Through Isothermal Semiâ€Solid Treatment. <i>Advanced Engineering Materials</i> , 2015, 17, 1623-1630. | 3.5 | 6 |
| 89 | High-Temperature Deformation Behavior of a Ti-6Al-7Nb Alloy in Dual-Phase ($\hat{1}\hat{+}\hat{+}\hat{2}$) and Single-Phase ($\hat{2}$) Regions. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 46-58. | 2.5 | 6 |
| 90 | Hybrid metallic composite materials fabricated by sheathed powder compaction. <i>Journal of Materials Science</i> , 2016, 51, 3118-3124. | 3.7 | 6 |

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| 91 | The Local Characterization of Individual Phase Mechanical Properties Using Nano-Indentation and In Situ Scanning Probe Microscopy in an Advanced High Strength Steel. Steel Research International, 2017, 88, 1600274. | 1.8 | 6 |
| 92 | Novel analytical approach for evaluating the mechanical properties of friction stir spot joints through constitutive modeling. Engineering Fracture Mechanics, 2019, 216, 106522. | 4.3 | 6 |
| 93 | The Effect of Martensiteâ€Austenite Constituent Characteristics on the Mechanical Behavior of Quenchedâ€Partitioned Steel at Room Temperature. Steel Research International, 2019, 90, 1800399. | 1.8 | 6 |
| 94 | Bi-directional ferrite to austenite transformation through warm temperature deformation of a ferrite-based low density steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 821, 141596. | 5.6 | 6 |
| 95 | Toward superior fatigue and corrosion fatigue crack initiation resistance of Sanicro 28 pipe super austenitic stainless steel. Journal of Materials Research and Technology, 2022, 17, 1672-1685. | 5.8 | 6 |
| 96 | D03 Ordered Phase Strengthening in Dual Phase Twinning-Induced Plasticity Steel. Journal of Materials Engineering and Performance, 2015, 24, 2085-2090. | 2.5 | 5 |
| 97 | Characterization of semisolid deformation behavior of a high Zr-containing WE magnesium alloy. Rare Metals, 2022, 41, 4201-4208. | 7.1 | 5 |
| 98 | EBSO Study of Deformation Microstructure of an Asâ€Homogenized Austenitic Mn Steel after Hot Compression. Advanced Engineering Materials, 2018, 20, 1800327. | 3.5 | 5 |
| 99 | The Effect of Aging Temperature on Microstructure and Tensile Properties of a Novel Designed Feâ€12Mnâ€3Ni Maragingâ€TRIP Steel. Steel Research International, 2019, 90, 1800282. | 1.8 | 5 |
| 100 | Tribological Performance and Electrochemical Behavior of Tiâ€29Nbâ€14Taâ€4.5Zr Alloy in Simulated Physiological Solution. Advanced Engineering Materials, 2020, 22, 1900758. | 3.5 | 5 |
| 101 | Inner Architecture of Bonded Splats under Combined High Pressure and Shear. Advanced Engineering Materials, 2016, 18, 501-505. | 3.5 | 4 |
| 102 | Qualitative and Quantitative Analysis of Thermomechanical Behavior of an Al4Srâ€Dispersed In Situ Composite. Journal of Materials Engineering and Performance, 2017, 26, 1236-1244. | 2.5 | 4 |
| 103 | Duality in dislocation density-superelasticity correlation in a TNTZ bio alloy processed by cold rolling and subsequent annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 782, 139181. | 5.6 | 4 |
| 104 | The correlation of austenite stability and sequence of strain accommodation during room temperature deformation of a duplex lightweight steel. Journal of Materials Research and Technology, 2021, 13, 1923-1932. | 5.8 | 4 |
| 105 | Microstructural evolution and corrosion behavior of Sanicro 28 during thermomechanical processing. Materials Today Communications, 2020, 24, 101228. | 1.9 | 4 |
| 106 | Nanoscale partitioning of Mn between austenite and martensite revealed by Curie temperature variations. Philosophical Magazine Letters, 2018, 98, 55-63. | 1.2 | 3 |
| 107 | The Shear Punch Jump Testâ€a Novel Application of a Small Specimen Testing Technique for Rapid Evaluation of Deformation Mechanisms. Experimental Mechanics, 2015, 55, 1569-1573. | 2.0 | 2 |
| 108 | Effect of Post-deformation Annealing Treatment on the Microstructural Evolution of a Cold-Worked Corrosion-Resistant Superalloy (CRSA) Steel. Journal of Materials Engineering and Performance, 2018, 27, 1168-1176. | 2.5 | 2 |

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| 109 | Throughput study of diffusion along the twin boundaries in Mg-5Sn-0.3Li as-cast alloy and its effect on the homogenization during hot deformation. <i>Materials Letters</i> , 2020, 281, 128446. | 2.6 | 2 |
| 110 | The valuation of microstructural evolution in a thermo-mechanically processed transformation-twinning induced plasticity steel during strain hardening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 799-810. | 5.6 | 1 |
| 111 | Comparing the mechanical properties, microstructure, texture and in-vitro degradation behavior of TNTZ/nano-fluorapatite composite and TNTZ bioalloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 117, 104402. | 3.1 | 1 |
| 112 | Microstructural-constraint induced ferrite refinement during compressive deformation of a triplex ferrite-based low density steel. <i>Vacuum</i> , 2021, 193, 110534. | 3.5 | 1 |