

Javad Mola

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Non-cube-on-cube orientation relationship between M23C6 and austenite in an austenitic stainless steel. Scripta Materialia, 2022, 213, 114597. | 2.6 | 11 |
| 2 | Temperature dependence of tensile deformation behavior and strain hardening of lean duplex stainless steels. Journal of Materials Research and Technology, 2022, 20, 330-342. | 2.6 | 6 |
| 3 | Fatigue Improvement of AlSi10Mg Fabricated by Laser-Based Powder Bed Fusion through Heat Treatment. Metals, 2021, 11, 683. | 1.0 | 14 |
| 4 | On the effect of Mn-content on the strength-ductility balance in Ni-free high N transformation induced plasticity steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141260. | 2.6 | 10 |
| 5 | Dynamic strain aging mechanisms in a metastable austenitic stainless steel. Acta Materialia, 2021, 212, 116888. | 3.8 | 48 |
| 6 | Correlation between mechanical stability and hardness of austenite in martensite/austenite mixtures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 822, 141687. | 2.6 | 9 |
| 7 | Influence of Carbon on the Microstructure Evolution and Hardness of Fe ^x Cr ^{1-x} C (x = 0-0.7 wt.%) Stainless Steel. Materials, 2021, 14, 5063. | 1.3 | 1 |
| 8 | Effect of Deformation during Austempering on Bainite Transformation and Retained Austenite in a Medium-Carbon Bainitic Steel. Steel Research International, 2020, 91, 1900353. | 1.0 | 1 |
| 9 | Focused ion beam-induced displacive phase transformation from austenite to martensite during fabrication of quenched and partitioned steel micro-pillar. Journal of Alloys and Compounds, 2020, 812, 152061. | 2.8 | 13 |
| 10 | Impact of Al addition on deformation behavior of Fe-Cr-Ni-Mn-C austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140084. | 2.6 | 11 |
| 11 | Neutron diffraction analysis of stress and strain partitioning in a two-phase microstructure with parallel-aligned phases. Scientific Reports, 2020, 10, 13536. | 1.6 | 3 |
| 12 | Design of High Alloy Austenitic CrMnNi Steels Exhibiting TRIP/TWIP Properties. Springer Series in Materials Science, 2020, , 41-75. | 0.4 | 0 |
| 13 | Thermodynamic-Mechanical Modeling of Metastable High Alloy Austenitic CrMnNi Steels. Springer Series in Materials Science, 2020, , 651-678. | 0.4 | 1 |
| 14 | Damage characterization of heat-treated titanium bio-alloy (Ti-6Al-4V) based on micromechanical modeling. Surface Topography: Metrology and Properties, 2020, 8, 045016. | 0.9 | 3 |
| 15 | Tempering Reactions and Elemental Redistribution During Tempering of Martensitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3663-3673. | 1.1 | 12 |
| 16 | Thermal Analysis of the Formation and Dissolution of Cr-Rich Carbides in Al-Alloyed Stainless Steels. Advanced Engineering Materials, 2019, 21, 1800658. | 1.6 | 8 |
| 17 | Constituent-specific properties in quenching and partitioning (Q&P) processed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 740-741, 439-444. | 2.6 | 19 |
| 18 | Ultra High Strength Stainless Steels Obtained by Quenching&Deformation&Partitioning (QDP) Processing. Advanced Engineering Materials, 2019, 21, 1800571. | 1.6 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | On the Critical Driving Force for Deformation-Induced ϵ -Martensite Formation in Austenitic Cr-Mn-Ni Steels. <i>Advanced Engineering Materials</i> , 2019, 21, 1800676. | 1.6 | 16 |
| 20 | Nanoscale partitioning of Mn between austenite and martensite revealed by Curie temperature variations. <i>Philosophical Magazine Letters</i> , 2018, 98, 55-63. | 0.5 | 3 |
| 21 | Tensile Deformation Behavior of Medium Manganese Steels with High Carbon Concentrations and Austenitic Microstructures. <i>Metals</i> , 2018, 8, 902. | 1.0 | 2 |
| 22 | Cementite evolution in medium manganese twinning-induced plasticity steels. <i>Materialia</i> , 2018, 2, 138-147. | 1.3 | 7 |
| 23 | Austenitic Nickel- and Manganese-Free Fe-15Cr-1Mo-0.4N-0.3C Steel: Tensile Behavior and Deformation-Induced Processes between 298K and 503K (25°C and 230°C). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 1033-1052. | 1.1 | 17 |
| 24 | Tensile elongation of lean-alloy austenitic stainless steels: Transformation-induced plasticity versus planar glide. <i>Materials Science and Technology</i> , 2017, 33, 1224-1230. | 0.8 | 10 |
| 25 | Micro-plasticity of medium Mn austenitic steel: Perfect dislocation plasticity and deformation twinning. <i>Acta Materialia</i> , 2017, 135, 112-123. | 3.8 | 46 |
| 26 | Quenching and partitioning (Q&P) processing of fully austenitic stainless steels. <i>Acta Materialia</i> , 2017, 133, 346-355. | 3.8 | 58 |
| 27 | Tempering of Martensite and Subsequent Redistribution of Cr, Mn, Ni, Mo, and Si Between Cementite and Martensite Studied by Magnetic Measurements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5805-5812. | 1.1 | 14 |
| 28 | Dilatometry Analysis of Dissolution of Cr-Rich Carbides in Martensitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5771-5777. | 1.1 | 19 |
| 29 | Volumetric changes associated with B ₂ -(Ni,Fe)Al dissolution in an Al-alloyed ferritic steel. <i>Materials and Design</i> , 2016, 111, 640-645. | 3.3 | 12 |
| 30 | Anomalous stabilization of austenitic stainless steels at cryogenic temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 415-420. | 2.6 | 28 |
| 31 | Microstructural Evolution of an Al-Alloyed Duplex Stainless Steel During Tensile Deformation Between 77 K and 473 K (~196°C and 200°C). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 2705-2716. | 1.1 | 12 |
| 32 | Influence of Martensite Fraction on Tensile Properties of Quenched and Partitioned (Q&P) Martensitic Stainless Steels. <i>Steel Research International</i> , 2016, 87, 1082-1094. | 1.0 | 33 |
| 33 | Contributions of μ and ϵ TRIP Effects to the Strength and Ductility of AISI 304 (X5CrNi18-10) Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 112-122. | 1.1 | 31 |
| 34 | Influence of Martensite Fraction on the Stabilization of Austenite in Austenitic-Martensitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 1947-1959. | 1.1 | 24 |
| 35 | Influence of Al on the temperature dependence of strain hardening behavior and glide planarity in Fe-Cr-Ni-Mn-C austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 301-312. | 2.6 | 31 |
| 36 | Effect of Vanadium Nitride Precipitation on Martensitic Transformation and Mechanical Properties of CrMnNi Cast Austenitic Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 139-151. | 1.1 | 10 |

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|----|---|-----|-----------|
| 37 | Quantification of deformation induced ϵ -martensite in Fe-19Cr-3Mn-4Ni-0.15C-0.15N austenitic steel by <i>in situ</i> magnetic measurements. <i>Materials Science and Technology</i> , 2015, 31, 1473-1478. | 0.8 | 30 |
| 38 | Thermal and deformation-induced phase transformation behavior of Fe-15Cr-3Mn-3Ni-0.1N-(0.05-0.25)C austenitic and austenitic-martensitic cast stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 645, 28-39. | 2.6 | 32 |
| 39 | Segregation-Induced Enhancement of Low-Temperature Tensile Ductility in a Cast High-Nitrogen Austenitic Stainless Steel Exhibiting Deformation-Induced ϵ^2 Martensite Formation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1450-1454. | 1.1 | 24 |
| 40 | Experimental Quantification of the Austenite-Stabilizing Effect of Mn in Cr-M-Ni Austenitic Stainless Steels. <i>Steel Research International</i> , 2014, 85, 803-810. | 1.0 | 24 |
| 41 | Microstructure and mechanical properties of Al-alloyed Fe-Cr-Ni-Mn-C stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 618, 46-55. | 2.6 | 24 |
| 42 | Quenching and Partitioning (Q&P) Processing of Martensitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 946-967. | 1.1 | 95 |
| 43 | Effect of Manganese on Microstructure and Mechanical Properties of Cast High Alloyed Cr-M-Ni Steels. <i>Advanced Engineering Materials</i> , 2013, 15, 558-565. | 1.6 | 48 |
| 44 | Conversion Model for the Martensitic Transformation of Banded Austenite in a Ferrite Matrix. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4921-4925. | 1.1 | 5 |
| 45 | Ridging Control in Transformable Ferritic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 228-244. | 1.1 | 31 |
| 46 | Quenching and partitioning processing of transformable ferritic stainless steels. <i>Scripta Materialia</i> , 2011, 65, 834-837. | 2.6 | 49 |
| 47 | Dilatometric Analysis of Anisotropic Dimensional Changes in a 16%Cr Stainless Steel with a Planar Banded Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1429-1440. | 1.1 | 18 |
| 48 | Influence of the Cold Rolling and Annealing Sequence on the Ridging Behaviour of Ti-Stabilized 18% Cr Ferritic Stainless Steel. <i>Steel Research International</i> , 2010, 81, 1089-1096. | 1.0 | 23 |
| 49 | Characterisation of phase segregation during back extrusion of ZA27 semisolid alloy. <i>Materials Science and Technology</i> , 2007, 23, 113-118. | 0.8 | 4 |
| 50 | Phase Segregation Susceptibility of ZA27 Alloy at Different Shear Rates. <i>Solid State Phenomena</i> , 2006, 116-117, 225-230. | 0.3 | 1 |
| 51 | Joining Metals by Combining Mechanical Stirring and Thermomechanical Treatment to Form a Globular Weld Structure. <i>Solid State Phenomena</i> , 2006, 116-117, 397-401. | 0.3 | 17 |
| 52 | Influence of Texture on Ridging and Formability of 16%Cr Ferritic Stainless Steel. <i>Solid State Phenomena</i> , 0, 160, 153-158. | 0.3 | 8 |
| 53 | Considerations in the Design of Formable Austenitic Stainless Steels Based on Deformation-Induced Processes. , 0, , . | | 2 |
| 54 | Joining Metals by Combining Mechanical Stirring and Thermomechanical Treatment to Form a Globular Weld Structure. <i>Solid State Phenomena</i> , 0, , 397-401. | 0.3 | 0 |