Javad Mola

List of Publications by Year in descending order

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54	988	430754	477173
papers	citations	18 h-index	29 g-index

56	56	56	508
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quenching and Partitioning (Q&P) Processing of Martensitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 946-967.	1.1	95
2	Quenching and partitioning (Q&P) processing of fully austenitic stainless steels. Acta Materialia, 2017, 133, 346-355.	3.8	58
3	Quenching and partitioning processing of transformable ferritic stainless steels. Scripta Materialia, 2011, 65, 834-837.	2.6	49
4	Effect of Manganese on Microstructure and Mechanical Properties of Cast High Alloyed Cr<scp>M</scp>n<scp>N</scp>iâ€<scp>N</scp> Steels. Advanced Engineering Materials, 2013, 15, 558-565.	1.6	48
5	Dynamic strain aging mechanisms in a metastable austenitic stainless steel. Acta Materialia, 2021, 212, 116888.	3.8	48
6	Micro-plasticity of medium Mn austenitic steel: Perfect dislocation plasticity and deformation twinning. Acta Materialia, 2017, 135, 112-123.	3.8	46
7	Influence of Martensite Fraction on Tensile Properties of Quenched and Partitioned (Q&P) Martensitic Stainless Steels. Steel Research International, 2016, 87, 1082-1094.	1.0	33
8	Thermal and deformation-induced phase transformation behavior of Feâ€“15Crâ€“3Mnâ€“3Niâ€“0.1Nâ€“(0.05â€“0.25)C austenitic and austeniticâ€“martensitic cast stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 645, 28-39.	2.6	32
9	Ridging Control in Transformable Ferritic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 228-244.	1.1	31
10	Contributions of Îµ and Î±â€² TRIP Effects to the Strength and Ductility of AISI 304 (X5CrNi18-10) Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 112-122.	1.1	31
11	Influence of Al on the temperature dependence of strain hardening behavior and glide planarity in Feâ€“Crâ€“Niâ€“Mnâ€“C austenitic stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 301-312.	2.6	31
12	Quantification of deformation induced Î±â€™-martensite in Feâ€“19Crâ€“3Mnâ€“4Niâ€“0.15Câ€“0.15N austenitic steel by in situ magnetic measurements. Materials Science and Technology, 2015, 31, 1473-1478.	0.8	30
13	Anomalous stabilization of austenitic stainless steels at cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 675, 415-420.	2.6	28
14	Experimental Quantification of the Austeniteâ€<scp>S</scp>tabilizing Effect of Mn in Cr<scp>M</scp>n<scp>N</scp>i Asâ€<scp>C</scp>ast Stainless Steels. Steel Research International, 2014, 85, 803-810.	1.0	24
15	Microstructure and mechanical properties of Al-alloyed Feâ€“Crâ€“Niâ€“Mnâ€“C stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 46-55.	2.6	24
16	Segregation-Induced Enhancement of Low-Temperature Tensile Ductility in a Cast High-Nitrogen Austenitic Stainless Steel Exhibiting Deformation-Induced Î±â€² Martensite Formation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1450-1454.	1.1	24
17	Influence of Martensite Fraction on the Stabilization of Austenite in Austeniticâ€“Martensitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1947-1959.	1.1	24
18	Influence of the Cold Rolling and Annealing Sequence on the Ridging Behaviour of Tiâ€Stabilized 18% Cr Ferritic Stainless Steel. Steel Research International, 2010, 81, 1089-1096.	1.0	23

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19	Dilatometry Analysis of Dissolution of Cr-Rich Carbides in Martensitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5771-5777.	1.1	19
20	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
21	Dilatometric Analysis of Anisotropic Dimensional Changes in a 16ÂPct Cr Stainless Steel with a Planar Banded Structure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1429-1440.	1.1	18
22	Joining Metals by Combining Mechanical Stirring and Thermomechanical Treatment to Form a Globular Weld Structure. Solid State Phenomena, 2006, 116-117, 397-401.	0.3	17
23	Austenitic Nickel- and Manganese-Free Fe-15Cr-1Mo-0.4N-0.3C Steel: Tensile Behavior and Deformation-Induced Processes between 298ÂK and 503ÂK (25ÂÂ°C and 230ÂÂ°C). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1033-1052.	1.1	17
24	On the Critical Driving Force for Deformationâ€Induced Î±â€²â€Martensite Formation in Austenitic Crâ€“Mnâ€“Ni Steels. Advanced Engineering Materials, 2019, 21, 1800676.	1.6	16
25	Tempering of Martensite and Subsequent Redistribution of Cr, Mn, Ni, Mo, and Si Between Cementite and Martensite Studied by Magnetic Measurements. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5805-5812.	1.1	14
26	Fatigue Improvement of AlSi10Mg Fabricated by Laser-Based Powder Bed Fusion through Heat Treatment. Metals, 2021, 11, 683.	1.0	14
27	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
28	Volumetric changes associated with B2-(Ni,Fe)Al dissolution in an Al-alloyed ferritic steel. Materials and Design, 2016, 111, 640-645.	3.3	12
29	Microstructural Evolution of an Al-Alloyed Duplex Stainless Steel During Tensile Deformation Between 77 K and 473 K (â^'196ÂÂ°C and 200ÂÂ°C). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2705-2716.	1.1	12
30	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
31	Impact of Al addition on deformation behavior of Feâ€“Crâ€“Niâ€“Mnâ€“C austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140084.	2.6	11
32	Non-cube-on-cube orientation relationship between M23C6 and austenite in an austenitic stainless steel. Scripta Materialia, 2022, 213, 114597.	2.6	11
33	Effect of Vanadium Nitride Precipitation on Martensitic Transformation and Mechanical Properties of CrMnNi Cast Austenitic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 139-151.	1.1	10
34	Tensile elongation of lean-alloy austenitic stainless steels: Transformation-induced plasticity versus planar glide. Materials Science and Technology, 2017, 33, 1224-1230.	0.8	10
35	Ultra High Strength Stainless Steels Obtained by Quenchingâ€Deformationâ€Partitioning (QDP) Processing. Advanced Engineering Materials, 2019, 21, 1800571.	1.6	10
36	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

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37	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
38	Influence of Texture on Ridging and Formability of 16%Cr Ferritic Stainless Steel. Solid State Phenomena, 0, 160, 153-158.	0.3	8
39	Thermal Analysis of the Formation and Dissolution of Crâ€Rich Carbides in Alâ€Alloyed Stainless Steels. Advanced Engineering Materials, 2019, 21, 1800658.	1.6	8
40	Cementite evolution in medium manganese twinning-induced plasticity steels. Materialia, 2018, 2, 138-147.	1.3	7
41	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
42	Conversion Model for the Martensitic Transformation of Banded Austenite in a Ferrite Matrix. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4921-4925.	1.1	5
43	Characterisation of phase segregation during back extrusion of ZA27 semisolid alloy. Materials Science and Technology, 2007, 23, 113-118.	0.8	4
44	Nanoscale partitioning of Mn between austenite and martensite revealed by Curie temperature variations. Philosophical Magazine Letters, 2018, 98, 55-63.	0.5	3
45	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
46	Damage characterization of heat-treated titanium bio-alloy (Tiâ€“6Alâ€“4V) based on micromechanical modeling. Surface Topography: Metrology and Properties, 2020, 8, 045016.	0.9	3
47	Considerations in the Design of Formable Austenitic Stainless Steels Based on Deformation-Induced Processes. , 0, , .		2
48	Tensile Deformation Behavior of Medium Manganese Steels with High Carbon Concentrations and Austenitic Microstructures. Metals, 2018, 8, 902.	1.0	2
49	Phase Segregation Susceptibility of ZA27 Alloy at Different Shear Rates. Solid State Phenomena, 2006, 116-117, 225-230.	0.3	1
50	Effect of Deformation during Austempering on Bainite Transformation and Retained Austenite in a Mediumâ€Carbon Bainitic Steel. Steel Research International, 2020, 91, 1900353.	1.0	1
51	Influence of Carbon on the Microstructure Evolution and Hardness of Feâ€“13Crâ€“xC (x = 0â€“0.7 wt.%) Stainless Steel. Materials, 2021, 14, 5063.	1.3	1
52	Thermodynamic-Mechanical Modeling of Metastable High Alloy Austenitic CrMnNi Steels. Springer Series in Materials Science, 2020, , 651-678.	0.4	1
53	Joining Metals by Combining Mechanical Stirring and Thermomechanical Treatment to Form a Globular Weld Structure. Solid State Phenomena, 0, , 397-401.	0.3	0
54	Design of High Alloy Austenitic CrMnNi Steels Exhibiting TRIP/TWIP Properties. Springer Series in Materials Science, 2020, , 41-75.	0.4	0