Mostafa Eskandari

List of Publications by Year
in descending order

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52 papers	1,646 citations	257450 24 h-index	302126 39 g-index
52 all docs	52 docs citations	52 times ranked	1112 citing authors

#	Article	IF	Citations
1	Electron Backscattered Diffraction Characterization of S900 HSLA Steel Welded Joints and Evolution of Mechanical Properties. Journal of Materials Engineering and Performance, 2022, 31, 3985-3997.	2.5	6
2	Effect of Accelerated Cooling Rate and Finish Rolling Temperature on the Occurrence of Arrowhead Markings in Drop-Weight Tear Test of API 5LX70 Linepipe Nbâ€“Vâ€“Ti Steel Plate. Metals and Materials International, 2021, 27, 4802-4813.	3.4	12
3	Corrosion behavior of 316L stainless steel manufactured by laser powder bed fusion (L-PBF) in an alkaline solution. Optics and Laser Technology, 2021, 138, 106918.	4.6	37
4	Effect of Cooling Rate and Finish Rolling Temperature on Structure and Strength of API 5LX70 Linepipe Steel Plate. Journal of Materials Engineering and Performance, 2020, 29, 4275-4285.	2.5	7
5	Corrosion Inhibition of l-Methionine Amino Acid as a Green Corrosion Inhibitor for Stainless Steel in theÂH2SO4 Solution. Journal of Materials Engineering and Performance, 2020, 29, 3983-3994.	2.5	43
6	Effect of Temperature on Mechanical Properties of Steel Bolts. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	7
7	Microstructure and texture of high manganese steel subjected to dynamic impact loading. Materials Science and Technology, 2020, 36, 1044-1056.	1.6	5
8	Addition of Silver to an Mgâ€“Alâ€“Zn Alloy Treated by Conventional and Chilled Solidification: A Microstructural Approach. Physics of Metals and Metallography, 2020, 121, 1393-1399.	1.0	0
9	Understanding the effect of weld parameters on the microstructures and mechanical properties in dissimilar steel welds. Procedia Manufacturing, 2019, 35, 986-991.	1.9	10
10	Texture and Microstructure Development of Tensile Deformed High-Mn Steel during Early Stage of Recrystallization. Physics of Metals and Metallography, 2019, 120, 32-40.	1.0	5
11	High-strain-rate deformation behaviour of new high-Mn austenitic steel during impact shock-loading. Materials Science and Technology, 2019, 35, 77-88.	1.6	7
12	Role of cold rolled followed by annealing on improvement of hydrogen induced cracking resistance in pipeline steel. Engineering Failure Analysis, 2018, 91, 172-181.	4.0	28
13	Effect of Hot Deformation on Texture and Microstructure in Fe-Mn Austenitic Steel During Compression Loading. Journal of Materials Engineering and Performance, 2018, 27, 1555-1569.	2.5	6
14	Alleviation of Mechanical Anisotropy in Ultrafine/Nano-grained AZ31 Magnesium Alloy. Journal of Materials Engineering and Performance, 2018, 27, 4270-4279.	2.5	7
15	EBSD Study of Deformation Microstructure of an Asâ€Homogenized Austenitic Mn Steel after Hot Compression. Advanced Engineering Materials, 2018, 20, 1800327.	3.5	5
16	Superhydrophobic Surface of AZ31 Alloy Fabricated by Chemical Treatment in the NiSO4 Solution. Journal of Materials Engineering and Performance, 2018, 27, 3951-3960.	2.5	18
17	Microstructural aspects of intergranular and transgranular crack propagation in an API X65 steel pipeline related to fatigue failure. Engineering Failure Analysis, 2018, 94, 214-225.	4.0	28
18	Effect of Annealing Treatments on the Microstructure and Texture Development in API 5L X60 Microalloyed Pipeline Steel. Journal of Materials Engineering and Performance, 2017, 26, 2003-2013.	2.5	12

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19	A Comparison Between Corrosion Behaviors of Fine-Grained and Coarse-Grained Structures of High-Mn Steel in NaCl Solution. Journal of Materials Engineering and Performance, 2017, 26, 2484-2490.	2.5	25
20	A focus on different factors affecting hydrogen induced cracking in oil and natural gas pipeline steel. Engineering Failure Analysis, 2017, 79, 351-360.	4.0	61
21	Comprehensive Deformation Analysis of a Newly Designed Ni-Free Duplex Stainless Steel with Enhanced Plasticity by Optimizing Austenite Stability. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3675-3691.	2.2	19
22	Development of Ultra-Fine-Grained Structure in AISI 321 Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5990-6012.	2.2	19
23	Microstructure, texture evolution and mechanical properties of X70 pipeline steel after different thermomechanical treatments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 477-485.	5.6	36
24	Effect of different microstructural parameters on hydrogen induced cracking in an API X70 pipeline steel. Metals and Materials International, 2017, 23, 726-735.	3.4	42
25	Effect of arisen dislocation density and texture components during cold rolling and annealing treatments on hydrogen induced cracking susceptibility in pipeline steel. Journal of Materials Research, 2016, 31, 3390-3400.	2.6	27
26	Hydrogen-Induced Cracking Assessment in Pipeline Steels Through Permeation and Crystallographic Texture Measurements. Journal of Materials Engineering and Performance, 2016, 25, 1781-1793.	2.5	32
27	Grain-orientation-dependent of Î³â€“Îµâ€“Î±â€² transformation and twinning in a super-high-strength, high ductility austenitic Mn-steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 514-528.	5.6	38
28	Mechanical behavior and high-resolution EBSD investigation of the microstructural evolution in AISI 321 stainless steel under dynamic loading condition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 400-416.	5.6	26
29	Effect of Microstructural Parameters on Fatigue Crack Propagation in an API X65 Pipeline Steel. Journal of Materials Engineering and Performance, 2016, 25, 4933-4940.	2.5	17
30	High-Resolution EBSD Study of Adiabatic Shear Band and Neighboring Grains After Dynamic Impact Loading of Mn-Steel Used in Vehicle Structure. Journal of Materials Engineering and Performance, 2016, 25, 1611-1620.	2.5	17
31	An extensive study of hydrogen-induced cracking susceptibility in an API X60 sour service pipeline steel. International Journal of Hydrogen Energy, 2016, 41, 4185-4197.	7.1	86
32	A systematic investigation on the role of microstructure on phase transformation behavior in Niâ€“Tiâ€“Fe shape memory alloys. Journal of Alloys and Compounds, 2015, 645, 213-222.	5.5	27
33	Microstructural investigation on marforming and conventional cold deformation in Niâ€“Tiâ€“Fe-based shape memory alloys. International Journal of Materials Research, 2015, 106, 852-862.	0.3	7
34	Role of microstructure on phase transformation behavior in Niâ€“Tiâ€“Fe shape memory alloys during thermal cycling. Journal of Alloys and Compounds, 2015, 652, 459-469.	5.5	6
35	Preferred Crystallographic Orientation Development in Nano/Ultrafine-Grained 316L Stainless Steel During Martensite to Austenite Reversion. Journal of Materials Engineering and Performance, 2015, 24, 644-653.	2.5	13
36	The mechanism of failure by hydrogen induced cracking in an acidic environment for API 5L X70 pipeline steel. International Journal of Hydrogen Energy, 2015, 40, 1096-1107.	7.1	152

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37	In-situ strain localization analysis in low density transformation-twinning induced plasticity steel using digital image correlation. Optics and Lasers in Engineering, 2015, 67, 1-16.	3.8	33
38	Microstructure and texture evolution in 21Mnâ€“2.5Siâ€“1.6Alâ€“Ti steel subjected to dynamic impact loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 622, 160-167.	5.6	17
39	Texture, local misorientation, grain boundary and recrystallization fraction in pipeline steels related to hydrogen induced cracking. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 97-106.	5.6	164
40	Strain Hardening During Hot Compression Through Planar Dislocation and Twin-Like Structure in a Low-Density High-Mn Steel. Journal of Materials Engineering and Performance, 2014, 23, 3567-3576.	2.5	10
41	Microstructure evolution and mechanical behavior of a new microalloyed high Mn austenitic steel during compressive deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 424-435.	5.6	23
42	In situ identification of elasticâ€“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
43	Temperature dependence of plastic deformation mechanisms in a modified transformation-twinning induced plasticity steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 150-156.	5.6	46
44	The effects of rolling parameters on the mechanical behavior of 6061 aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 578, 90-95.	5.6	18
45	Ductility improvement in AZ31 magnesium alloy using constrained compression testing technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 74-81.	5.6	8
46	The prediction of hot deformation behavior in Feâ€“21Mnâ€“2.5Siâ€“1.5Al transformation-twinning induced plasticity steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 554, 72-78.	5.6	63
47	Investigation in the corrosion behaviour of bulk nanocrystalline 316L austenitic stainless steel in NaCl solution. Micro and Nano Letters, 2012, 7, 380.	1.3	27
48	Comparison of corrosion resistance of nanostructured copper produced in vacuum and electrolytic solution in neutral chloride media. Micro and Nano Letters, 2011, 6, 402.	1.3	3
49	Effect of martensite to austenite reversion on the formation of nano/submicron grained AISI 301 stainless steel. Materials Characterization, 2009, 60, 1220-1223.	4.4	50
50	Formation of nano-grained structure in a 301 stainless steel using a repetitive thermo-mechanical treatment. Materials Letters, 2009, 63, 1442-1444.	2.6	36
51	Effect of strain-induced martensite on the formation of nanocrystalline 316L stainless steel after cold rolling and annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 519, 46-50.	5.6	161
52	Formation of Nanocrystalline Structure in 301 Stainless Steel Produced by Martensite Treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2241-2249.	2.2	65