

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
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all docs

52
docs citations

52
times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	Texture, local misorientation, grain boundary and recrystallization fraction in pipeline steels related to hydrogen induced cracking. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 620, 97-106.	5.6	164
2	Effect of strain-induced martensite on the formation of nanocrystalline 316L stainless steel after cold rolling and annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 519, 46-50.	5.6	161
3	The mechanism of failure by hydrogen induced cracking in an acidic environment for API 5L X70 pipeline steel. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 1096-1107.	7.1	152
4	An extensive study of hydrogen-induced cracking susceptibility in an API X60 sour service pipeline steel. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4185-4197.	7.1	86
5	Formation of Nanocrystalline Structure in 301 Stainless Steel Produced by Martensite Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 2241-2249.	2.2	65
6	The prediction of hot deformation behavior in Fe-21Mn-2.5Si-1.5Al transformation-twinning induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 554, 72-78.	5.6	63
7	A focus on different factors affecting hydrogen induced cracking in oil and natural gas pipeline steel. <i>Engineering Failure Analysis</i> , 2017, 79, 351-360.	4.0	61
8	Effect of martensite to austenite reversion on the formation of nano/submicron grained AISI 301 stainless steel. <i>Materials Characterization</i> , 2009, 60, 1220-1223.	4.4	50
9	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
10	Corrosion Inhibition of L-Methionine Amino Acid as a Green Corrosion Inhibitor for Stainless Steel in the H ₂ SO ₄ Solution. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3983-3994.	2.5	43
11	Effect of different microstructural parameters on hydrogen induced cracking in an API X70 pipeline steel. <i>Metals and Materials International</i> , 2017, 23, 726-735.	3.4	42
12	Grain-orientation-dependent of ϵ transformation and twinning in a super-high-strength, high ductility austenitic Mn-steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 514-528.	5.6	38
13	Corrosion behavior of 316L stainless steel manufactured by laser powder bed fusion (L-PBF) in an alkaline solution. <i>Optics and Laser Technology</i> , 2021, 138, 106918.	4.6	37
14	Formation of nano-grained structure in a 301 stainless steel using a repetitive thermo-mechanical treatment. <i>Materials Letters</i> , 2009, 63, 1442-1444.	2.6	36
15	Microstructure, texture evolution and mechanical properties of X70 pipeline steel after different thermomechanical treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 703, 477-485.	5.6	36
16	In-situ strain localization analysis in low density transformation-twinning induced plasticity steel using digital image correlation. <i>Optics and Lasers in Engineering</i> , 2015, 67, 1-16.	3.8	33
17	Hydrogen-Induced Cracking Assessment in Pipeline Steels Through Permeation and Crystallographic Texture Measurements. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1781-1793.	2.5	32
18	In situ identification of elastic-plastic strain distribution in a microalloyed transformation induced plasticity steel using digital image correlation. <i>Optics and Lasers in Engineering</i> , 2014, 54, 79-87.	3.8	29

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19	Role of cold rolled followed by annealing on improvement of hydrogen induced cracking resistance in pipeline steel. <i>Engineering Failure Analysis</i> , 2018, 91, 172-181.	4.0	28
20	Microstructural aspects of intergranular and transgranular crack propagation in an API X65 steel pipeline related to fatigue failure. <i>Engineering Failure Analysis</i> , 2018, 94, 214-225.	4.0	28
21	Investigation in the corrosion behaviour of bulk nanocrystalline 316L austenitic stainless steel in NaCl solution. <i>Micro and Nano Letters</i> , 2012, 7, 380.	1.3	27
22	A systematic investigation on the role of microstructure on phase transformation behavior in Ni-Ti-Fe shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2015, 645, 213-222.	5.5	27
23	Effect of arisen dislocation density and texture components during cold rolling and annealing treatments on hydrogen induced cracking susceptibility in pipeline steel. <i>Journal of Materials Research</i> , 2016, 31, 3390-3400.	2.6	27
24	Mechanical behavior and high-resolution EBSD investigation of the microstructural evolution in AISI 321 stainless steel under dynamic loading condition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 400-416.	5.6	26
25	A Comparison Between Corrosion Behaviors of Fine-Grained and Coarse-Grained Structures of High-Mn Steel in NaCl Solution. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2484-2490.	2.5	25
26	Microstructure evolution and mechanical behavior of a new microalloyed high Mn austenitic steel during compressive deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 615, 424-435.	5.6	23
27	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
28	Development of Ultra-Fine-Grained Structure in AISI 321 Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5990-6012.	2.2	19
29	The effects of rolling parameters on the mechanical behavior of 6061 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 90-95.	5.6	18
30	Superhydrophobic Surface of AZ31 Alloy Fabricated by Chemical Treatment in the NiSO ₄ Solution. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 3951-3960.	2.5	18
31	Microstructure and texture evolution in 21Mn-2.5Si-1.6Al-Ti steel subjected to dynamic impact loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 622, 160-167.	5.6	17
32	Effect of Microstructural Parameters on Fatigue Crack Propagation in an API X65 Pipeline Steel. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4933-4940.	2.5	17
33	High-Resolution EBSD Study of Adiabatic Shear Band and Neighboring Grains After Dynamic Impact Loading of Mn-Steel Used in Vehicle Structure. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1611-1620.	2.5	17
34	Preferred Crystallographic Orientation Development in Nano/Ultrafine-Grained 316L Stainless Steel During Martensite to Austenite Reversion. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 644-653.	2.5	13
35	Effect of Annealing Treatments on the Microstructure and Texture Development in API 5L X60 Microalloyed Pipeline Steel. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2003-2013.	2.5	12
36	Effect of Accelerated Cooling Rate and Finish Rolling Temperature on the Occurrence of Arrowhead Markings in Drop-Weight Tear Test of API 5LX70 Linepipe Nb-V-Ti Steel Plate. <i>Metals and Materials International</i> , 2021, 27, 4802-4813.	3.4	12

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37	Strain Hardening During Hot Compression Through Planar Dislocation and Twin-Like Structure in a Low-Density High-Mn Steel. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3567-3576.	2.5	10
38	Understanding the effect of weld parameters on the microstructures and mechanical properties in dissimilar steel welds. <i>Procedia Manufacturing</i> , 2019, 35, 986-991.	1.9	10
39	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
40	Microstructural investigation on marforming and conventional cold deformation in Ni-Ti-Fe-based shape memory alloys. <i>International Journal of Materials Research</i> , 2015, 106, 852-862.	0.3	7
41	Alleviation of Mechanical Anisotropy in Ultrafine/Nano-grained AZ31 Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4270-4279.	2.5	7
42	High-strain-rate deformation behaviour of new high-Mn austenitic steel during impact shock-loading. <i>Materials Science and Technology</i> , 2019, 35, 77-88.	1.6	7
43	Effect of Cooling Rate and Finish Rolling Temperature on Structure and Strength of API 5LX70 Linepipe Steel Plate. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4275-4285.	2.5	7
44	Effect of Temperature on Mechanical Properties of Steel Bolts. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	2.9	7
45	Role of microstructure on phase transformation behavior in Ni-Ti-Fe shape memory alloys during thermal cycling. <i>Journal of Alloys and Compounds</i> , 2015, 652, 459-469.	5.5	6
46	Effect of Hot Deformation on Texture and Microstructure in Fe-Mn Austenitic Steel During Compression Loading. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1555-1569.	2.5	6
47	Electron Backscattered Diffraction Characterization of S900 HSLA Steel Welded Joints and Evolution of Mechanical Properties. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 3985-3997.	2.5	6
48	EBSD Study of Deformation Microstructure of an As-Homogenized Austenitic Mn Steel after Hot Compression. <i>Advanced Engineering Materials</i> , 2018, 20, 1800327.	3.5	5
49	Texture and Microstructure Development of Tensile Deformed High-Mn Steel during Early Stage of Recrystallization. <i>Physics of Metals and Metallography</i> , 2019, 120, 32-40.	1.0	5
50	Microstructure and texture of high manganese steel subjected to dynamic impact loading. <i>Materials Science and Technology</i> , 2020, 36, 1044-1056.	1.6	5
51	Comparison of corrosion resistance of nanostructured copper produced in vacuum and electrolytic solution in neutral chloride media. <i>Micro and Nano Letters</i> , 2011, 6, 402.	1.3	3
52	Addition of Silver to an Mg-Al-Zn Alloy Treated by Conventional and Chilled Solidification: A Microstructural Approach. <i>Physics of Metals and Metallography</i> , 2020, 121, 1393-1399.	1.0	0