

Atef Hamada

List of Publications by Year in descending order

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53
papers

1,573
citations

304602

22
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315616

38
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all docs

53
docs citations

53
times ranked

1022
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of aluminum on hot deformation behavior and tensile properties of high-Mn TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 467, 114-124.	2.6	215
2	Fatigue behavior of high-Mn TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 517, 68-77.	2.6	128
3	Hot ductility behaviour of high-Mn TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1819-1827.	2.6	86
4	Contribution of deformation mechanisms to strength and ductility in two Cr&Mn grade austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 336-344.	2.6	85
5	Effects of reversion and recrystallization on microstructure and mechanical properties of Nb-alloyed low-Ni high-Mn austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 657, 359-370.	2.6	79
6	Electrochemical corrosion behaviour of a novel submicron-grained austenitic stainless steel in an acidic NaCl solution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 431, 211-217.	2.6	76
7	High-cycle fatigue behavior of ultrafine-grained austenitic stainless and TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5715-5722.	2.6	73
8	On the current research progress of metallic materials fabricated by laser powder bed fusion process: a review. <i>Journal of Materials Research and Technology</i> , 2022, 20, 681-707.	2.6	63
9	Enhancement of mechanical properties of a TRIP-aided austenitic stainless steel by controlled reversion annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 154-159.	2.6	49
10	High Temperature Flow Stress and Recrystallization Behavior of High-Mn TWIP Steels. <i>ISIJ International</i> , 2007, 47, 907-912.	0.6	40
11	Effect of Al content and cold rolling on the microstructure and mechanical properties of Al5Cr12Fe35Mn28Ni20 high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 380-390.	2.6	39
12	Indentation property and corrosion resistance of electroless nickel&phosphorus coatings deposited on austenitic high-Mn TWIP steel. <i>Applied Surface Science</i> , 2015, 356, 1-8.	3.1	34
13	Some aspects of the cyclic behavior of twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2012, 66, 1034-1039.	2.6	33
14	Fatigue behavior of ultrafine-grained and coarse-grained Cr&Ni austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3890-3896.	2.6	32
15	Ductility and formability of three high-Mn TWIP steels in quasi-static and high-speed tensile and Erichsen tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 255-265.	2.6	32
16	The microstructural evolution of friction stir welded AA6082-T6 aluminum alloy during cyclic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 642, 366-376.	2.6	31
17	Impact of precipitates on the hydrogen embrittlement behavior of a V-alloyed medium-manganese austenitic stainless steel. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13524-13538.	2.6	30
18	High temperature deformation behavior of two as-cast high-manganese TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 582, 15-21.	2.6	29

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19	Low strain rate deformation behavior of a Cr-Mn austenitic steel at 80 °C. <i>Acta Materialia</i> , 2012, 60, 6907-6919.	3.8	27
20	Effect of silicon on the hot deformation behavior of microalloyed TWIP-type stainless steels. <i>Materials and Design</i> , 2018, 154, 117-129.	3.3	27
21	Development of a Cr-Ni-V-N Medium Manganese Steel with Balanced Mechanical and Corrosion Properties. <i>Metals</i> , 2019, 9, 705.	1.0	27
22	Non-destructive determination of the yield strength and flow properties of high-manganese twinning-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 766-770.	2.6	24
23	Influence of prior cold rolling reduction on microstructure and mechanical properties of a reversion annealed high-Mn austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 119-128.	2.6	23
24	Enhancement of electrical conductivity and corrosion resistance by silver shell-copper core coating of additively manufactured AlSi10Mg alloy. <i>Surface and Coatings Technology</i> , 2020, 403, 126426.	2.2	21
25	Physically based modeling and characterization of hot deformation behavior of twinning-induced plasticity steels bearing vanadium and niobium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 703, 85-96.	2.6	20
26	Structure and microstructure evolution during martensitic transformation in wrought Fe-26Mn-0.14C austenitic steel: an effect of cooling rate. <i>Journal of Applied Crystallography</i> , 2007, 40, 354-361.	1.9	19
27	Effect of microstructure on mechanical properties of a novel high-Mn TWIP stainless steel bearing vanadium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 301-304.	2.6	19
28	High-temperature deformation behavior and microstructural characterization of high-Mn bearing titanium-based alloy. <i>Materials Characterization</i> , 2018, 139, 176-185.	1.9	19
29	High temperature deformation behavior of a stainless steel fiber-reinforced copper matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 669, 469-479.	2.6	18
30	A new processing route to develop nano-grained structure of a TRIP-aided austenitic stainless-steel using double reversion fast-heating annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 808, 140917.	2.6	15
31	Optimization of the tensile-shear strength of laser-welded lap joints of ultra-high strength abrasion resistance steel. <i>Journal of Materials Research and Technology</i> , 2021, 11, 1434-1442.	2.6	15
32	Enhancement of corrosion protection of AISI 201 austenitic stainless steel in acidic chloride solutions by Ce-doped TiO ₂ coating. <i>Surface and Coatings Technology</i> , 2021, 423, 127618.	2.2	15
33	Study on the Mechanical Performance of Dissimilar Butt Joints between Low Ni Medium-Mn and Ni-Cr Austenitic Stainless Steels Processed by Gas Tungsten Arc Welding. <i>Metals</i> , 2021, 11, 1439.	1.0	14
34	Mechanical performance and formability of laser-welded dissimilar butt joints between medium-Mn stainless steel and high-strength carbon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142200.	2.6	14
35	Dissimilar Laser Welding of Austenitic Stainless Steel and Abrasion-Resistant Steel: Microstructural Evolution and Mechanical Properties Enhanced by Post-Weld Heat Treatment. <i>Materials</i> , 2021, 14, 5580.	1.3	12
36	Effects of Cyclic Pre-straining on Mechanical Properties of an Austenitic Microalloyed High-Mn Twinning-induced Plasticity Steel. <i>Procedia Engineering</i> , 2014, 74, 47-52.	1.2	10

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37	Laser welding of selective laser melted Ti6Al4V: Microstructure and mechanical properties. Materials Today: Proceedings, 2020, 28, 907-911.	0.9	10
38	Effect of Cold Rolling on the Microstructure and Hardness of Al _{0.5} Cr ₁₂ Fe ₃₅ Mn ₂₈ Ni ₂₀ High Entropy Alloy. Materials Science Forum, 0, 917, 241-245.		
39	Microstructural evolution during extrusion of equal channel angular-pressed AA1070 alloy in micro/mesoscale. Materials Science and Technology, 2020, 36, 1169-1177.	0.8	8
40	Enhancement of electrical conductivity and corrosion resistance by gold-nickel coating of additively manufactured AlSi10Mg alloy. Journal of Materials Research and Technology, 2022, 17, 521-536.	2.6	8
41	Study on Cyclic Strain Localization and Fatigue Fracture Mechanism in High Manganese Twinning-Induced Plasticity Steels. Materials Science Forum, 0, 762, 411-417.	0.3	6
42	Mechanical characterization of laser-welded double-lap joints in ultra-high and low strength steels for sandwich panel applications. Materials Today: Proceedings, 2020, 28, 455-460.	0.9	6
43	Enhancement of grain structure and mechanical properties of a high-Mn twinning-induced plasticity steel bearing Al _{0.5} Si by fast-heating annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139949.	2.6	6
44	Microstructural Evolution and Tensile Strength of Laser-Welded Butt Joints of Ultra-High Strength Steels: Low and High Alloy Steels. Key Engineering Materials, 0, 883, 250-257.	0.4	6
45	High-Speed Erichsen Testing of Grain-Refined 301LN Austenitic Stainless Steel Processed by Double-Reversion Annealing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 2174-2194.	1.1	6
46	Ballistic Impact Simulation of Proposed Bullet Proof Vest Made of TWIP Steel, Water and Polymer Sandwich Composite Using FE-SPH Coupled Technique. Key Engineering Materials, 0, 786, 302-313.	0.4	5
47	Effect of the Cyclic Extrusion and Compression Processing on Microstructure and Mechanical Properties of Al-1%Cu Alloy. Key Engineering Materials, 0, 780, 93-97.	0.4	3
48	Micro/Meso-Scale Equal Channel Angular Pressing of Al 1070 Alloy: Microstructure and Mechanical Properties. Journal of Materials Engineering and Performance, 2020, 29, 6201-6211.	1.2	3
49	Microstructure and Mechanical Properties Change with Cold Deformation of the Biomedical Ti-17Nb-6Ta-3Zr Alloy. Key Engineering Materials, 0, 780, 15-19.	0.4	2
50	Effect of Grain Structure on the Mechanical and Corrosion Behavior of Advanced Medium Mn Stainless TWIP Steel. Materials Science Forum, 2020, 998, 15-20.	0.3	1
51	Microstructure, Mechanical Properties of Extruded Aluminum at Different Ram Speeds in Micro/Meso-Scale. Metallography, Microstructure, and Analysis, 2021, 10, 402-409.	0.5	1
52	Multiscale Finite Element Simulation of Thermal Properties and Mechanical Strength of Reduced Graphene Oxide Reinforced Aluminium Matrix Composite. Key Engineering Materials, 0, 821, 39-46.	0.4	0
53	Grain size affecting the deformation characteristics via micro-injection upsetting. Materials Science and Technology, 2021, 37, 918-929.	0.8	0