Hesam Pouraliakbar

List of Publications by Year
in descending order

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28 papers	1,224 citations	279487 23 h-index	500791 28 g-index
28 all docs	28 docs citations	28 times ranked	817 citing authors

#	Article	IF	Citations
1	Study on microstructure and mechanical characteristics of low-carbon steel and ferritic stainless steel joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 608, 35-45.	2.6	139
2	Constrained groove pressing and subsequent annealing of Al-Mn-Si alloy: Microstructure evolutions, crystallographic transformations, mechanical properties, electrical conductivity and corrosion resistance. Materials and Design, 2017, 124, 34-46.	3.3	80
3	Study on the post-rolling direction of severely plastic deformed Aluminum-Manganese-Silicon alloy. Archives of Civil and Mechanical Engineering, 2016, 16, 876-887.	1.9	73
4	Microanalysis of crystallographic characteristics and structural transformations in SPDed Al Mn Si alloy by dual-straining. Journal of Alloys and Compounds, 2017, 696, 1189-1198.	2.8	73
5	On the effect of non-isothermal annealing and multi-directional forging on the microstructural evolutions and correlated mechanical and electrical characteristics of hot-deformed Al-Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 657, 431-440.	2.6	66
6	Study on the effect of post-annealing on the microstructural evolutions and mechanical properties of rolled CGPed Aluminum-Manganese-Silicon alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 493-503.	2.6	64
7	Three-layered SS321/AA1050/AA5083 explosive welds: Effect of PWHT on the interface evolution and its mechanical strength. International Journal of Pressure Vessels and Piping, 2020, 188, 104216.	1.2	53
8	Predictions of toughness and hardness by using chemical composition and tensile properties in microalloyed line pipe steels. Neural Computing and Applications, 2014, 25, 1993-1999.	3.2	47
9	Predictions of corrosion current density and potential by using chemical composition and corrosion cell characteristics in microalloyed pipeline steels. Measurement: Journal of the International Measurement Confederation, 2015, 62, 97-107.	2.5	43
10	Constrained groove pressing, cold-rolling, and post-deformation isothermal annealing: Consequences of their synergy on material behavior. Materials Chemistry and Physics, 2018, 206, 85-93.	2.0	43
11	Artificial neural networks for hardness prediction of HAZ with chemical composition and tensile test of X70 pipeline steels. Journal of Iron and Steel Research International, 2015, 22, 446-450.	1.4	42
12	Mechanistic insight into the role of severe plastic deformation and post-deformation annealing in fracture behavior of Al-Mn-Si alloy. Mechanics of Materials, 2018, 122, 145-158.	1.7	42
13	Influence of interfacial adhesion on the damage tolerance of Al6061/SiCp laminated composites. Ceramics International, 2017, 43, 2632-2643.	2.3	39
14	Combined effect of heat treatment and rolling on pre-strained and SPDed aluminum sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 612, 371-379.	2.6	38
15	PREDICTION OF MARTENSITE FRACTION OF MICROALLOYED STEEL BY ARTIFICIAL NEURAL NETWORKS. Neural Network World, 2013, 23, 117-130.	0.5	38
16	Duplex ceramic coating produced by low temperature thermo-reactive deposition and diffusion on the cold work tool steel substrate: Thermodynamics, kinetics and modeling. Ceramics International, 2015, 41, 9350-9360.	2.3	37
17	Elucidating the microscopic origin of electrochemical corrosion and electrical conductivity by lattice response to severe plastic deformation in Al-Mn-Si alloy. Materials Research Bulletin, 2018, 108, 195-206.	2.7	35
18	MODELING THE CORRELATION BETWEEN HEAT TREATMENT, CHEMICAL COMPOSITION AND BAINITE FRACTION OF PIPELINE STEELS BY MEANS OF ARTIFICIAL NEURAL NETWORKS. Neural Network World, 2013, 23, 351-367.	0.5	35

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19	Computer-aided modeling for predicting layer thickness of a duplex treated ceramic coating on tool steels. Ceramics International, 2014, 40, 5515-5522.	2.3	33
20	Microalloyed steel welds by HF-ERW technique: Novel PWHT cycles, microstructure evolution and mechanical properties enhancement. International Journal of Pressure Vessels and Piping, 2017, 152, 15-26.	1.2	33
21	Predicting Charpy impact energy of Al6061/SiC p laminated nanocomposites in crack divider and crack arrester forms. Ceramics International, 2013, 39, 6099-6106.	2.3	29
22	Correlation of passivation current density and potential by using chemical composition and corrosion cell characteristics in HSLA steels. Measurement: Journal of the International Measurement Confederation, 2015, 75, 5-11.	2.5	28
23	Effect of second-phase particles evolution and lattice transformations while ultrafine graining and annealing on the corrosion resistance and electrical conductivity of Alâ€“Mnâ€“Si alloy. Materials Research Express, 2019, 6, 1065d9.	0.8	26
24	Predicting the ultimate grain size of aluminum sheets undergone constrained groove pressing. International Journal of Advanced Manufacturing Technology, 2016, 86, 1639-1658.	1.5	25
25	Grain boundary transition associated intergranular failure analysis at TMAZ/SZ interface of dissimilar AA7475-AA2198 joints by friction stir welding. Materials Letters, 2020, 280, 128557.	1.3	25
26	Comparative Insight into the Interfacial Phase Evolutions during Solution Treatment of Dissimilar Friction Stir Welded AA2198-AA7475 and AA2198-AA6013 Aluminum Sheets. Materials, 2021, 14, 1290.	1.3	22
27	On the Al/Cu Dissimilar Joints Produced Through Simple Cold Compression. Transactions of the Indian Institute of Metals, 2015, 68, 991-998.	0.7	9
28	Data supporting the hierarchically activated deformation mechanisms to form ultra-fine grain microstructure in carbon containing FeMnCoCr twinning induced plasticity high entropy alloy. Data in Brief, 2022, 42, 108052.	0.5	7