Madjid Sarvghad

List of Publications by Year
in descending order

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21 papers	640 citations	687363 13 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	516 citing authors

#	Article	IF	Citations
1	Materials compatibility for the next generation of Concentrated Solar Power plants. Energy Storage Materials, 2018, 14, 179-198.	18.0	111
2	Microstructure and corrosion characterization of the interfacial region in dissimilar friction stir welded AA5083 to AA7023. Corrosion Science, 2016, 107, 133-144.	6.6	81
3	Establishing a correlation between interfacial microstructures and corrosion initiation sites in Al/Cu joints by SEMâ€“EDS and AFMâ€“SKPFM. Corrosion Science, 2014, 79, 148-158.	6.6	70
4	Microstructural and mechanical properties of friction stir welded Cuâ€“30Zn brass alloy at various feed speeds: Influence of stir bands. Materials & Design, 2011, 32, 2749-2755.	5.1	57
5	Corrosion of steel alloys in eutectic NaCl+Na 2 CO 3 at 700 Â°C and Li 2 CO 3 + K 2 CO 3 + Na 2 CO 3 at 450 Â°C for thermal energy storage. Solar Energy Materials and Solar Cells, 2017, 170, 48-59.	6.2	52
6	Corrosion of stainless steel 316 in eutectic molten salts for thermal energy storage. Solar Energy, 2018, 172, 198-203.	6.1	49
7	Corrosion of Inconel 601 in molten salts for thermal energy storage. Solar Energy Materials and Solar Cells, 2017, 172, 220-229.	6.2	39
8	Corrosion of steel alloys in molten NaCl + Na2SO4 at 700 Â°C for thermal energy storage. Solar Energy Materials and Solar Cells, 2018, 179, 207-216.	6.2	35
9	Correlation between the histogram and power spectral density analysis of AFM and SKPFM images in an AA7023/AA5083 FSW joint. Journal of Alloys and Compounds, 2018, 744, 174-181.	5.5	30
10	Comparative interaction of cold-worked versus annealed inconel 601 with molten carbonate salt at 450Â°C. Corrosion Science, 2017, 116, 88-97.	6.6	27
11	Stress assisted oxidative failure of Inconel 601 for thermal energy storage. Solar Energy Materials and Solar Cells, 2017, 159, 510-517.	6.2	23
12	Review of the solubility, monitoring, and purification of impurities in molten salts for energy storage in concentrated solar power plants. Renewable and Sustainable Energy Reviews, 2020, 131, 110006.	16.4	21
13	On the effect of cold-rolling on the corrosion of SS316L alloy in a molten carbonate salt. Solar Energy Materials and Solar Cells, 2019, 202, 110136.	6.2	16
14	Optimized corrosion performance of a carbon steel in dilute sulfuric acid through heat treatment. Applied Surface Science, 2019, 491, 460-468.	6.1	10
15	Anodization of medical grade stainless steel for improved corrosion resistance and nanostructure formation targeting biomedical applications. Electrochimica Acta, 2022, 416, 140274.	5.2	9
16	Scanning Kelvin Probe Force Microscopy as a means for comparative quantification of cold-rolling and visualizing the surface susceptibility to galvanic cells; compared to neutron diffraction and EBSD. Progress in Surface Science, 2020, 95, 100594.	8.3	4
17	Critical components in supercritical CO2 Brayton cycle power blocks for solar power systems: Degradation mechanisms and failure consequences. Solar Energy Materials and Solar Cells, 2022, 242, 111768.	6.2	3
18	Investigation of the corrosion of electro-less nickel-plated alloys in molten salt and its effect on phase change properties for energy storage applications. Solar Energy, 2022, 236, 512-521.	6.1	2

#	Article	IF	Citations
19	Identifying structural integrity issues for molten salt phase change material thermal storage systems from corrosion behavior. AIP Conference Proceedings, 2020, , .	0.4	1
20	Testing and Evaluating of Structural Materials for CSP Applications. ECS Transactions, 2018, 85, 23-35.	0.5	0
21	Testing and Evaluating of Structural Materials for CSP Applications. ECS Meeting Abstracts, 2018, , .	0.0	0