

Madjid Sarvghad

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

640
citations

687363

13
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794594

19
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21
all docs

21
docs citations

21
times ranked

516
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the corrosion of electro-less nickel-plated alloys in molten salt and its effect on phase change properties for energy storage applications. <i>Solar Energy</i> , 2022, 236, 512-521.	6.1	2
2	Anodization of medical grade stainless steel for improved corrosion resistance and nanostructure formation targeting biomedical applications. <i>Electrochimica Acta</i> , 2022, 416, 140274.	5.2	9
3	Critical components in supercritical CO ₂ Brayton cycle power blocks for solar power systems: Degradation mechanisms and failure consequences. <i>Solar Energy Materials and Solar Cells</i> , 2022, 242, 111768.	6.2	3
4	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. <i>Progress in Surface Science</i> , 2020, 95, 100594.	8.3	4
5	Review of the solubility, monitoring, and purification of impurities in molten salts for energy storage in concentrated solar power plants. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110006.	16.4	21
6	Identifying structural integrity issues for molten salt phase change material thermal storage systems from corrosion behavior. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
7	On the effect of cold-rolling on the corrosion of SS316L alloy in a molten carbonate salt. <i>Solar Energy Materials and Solar Cells</i> , 2019, 202, 110136.	6.2	16
8	Optimized corrosion performance of a carbon steel in dilute sulfuric acid through heat treatment. <i>Applied Surface Science</i> , 2019, 491, 460-468.	6.1	10
9	Materials compatibility for the next generation of Concentrated Solar Power plants. <i>Energy Storage Materials</i> , 2018, 14, 179-198.	18.0	111
10	Correlation between the histogram and power spectral density analysis of AFM and SKPFM images in an AA7023/AA5083 FSW joint. <i>Journal of Alloys and Compounds</i> , 2018, 744, 174-181.	5.5	30
11	Corrosion of stainless steel 316 in eutectic molten salts for thermal energy storage. <i>Solar Energy</i> , 2018, 172, 198-203.	6.1	49
12	Testing and Evaluating of Structural Materials for CSP Applications. <i>ECS Transactions</i> , 2018, 85, 23-35.	0.5	0
13	Corrosion of steel alloys in molten NaCl + Na ₂ SO ₄ at 700 Å°C for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 207-216.	6.2	35
14	Testing and Evaluating of Structural Materials for CSP Applications. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
15	Comparative interaction of cold-worked versus annealed inconel 601 with molten carbonate salt at 450Å°C. <i>Corrosion Science</i> , 2017, 116, 88-97.	6.6	27
16	Corrosion of steel alloys in eutectic NaCl+Na ₂ CO ₃ at 700 Å°C and Li ₂ CO ₃ + K ₂ CO ₃ + Na ₂ CO ₃ at 450 Å°C for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 48-59.	6.2	52
17	Corrosion of Inconel 601 in molten salts for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 220-229.	6.2	39
18	Stress assisted oxidative failure of Inconel 601 for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 510-517.	6.2	23

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19	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
20	Establishing a correlation between interfacial microstructures and corrosion initiation sites in Al/Cu joints by SEM-EDS and AFM-SKPFM. Corrosion Science, 2014, 79, 148-158.	6.6	70
21	Microstructural and mechanical properties of friction stir welded Cu-30Zn brass alloy at various feed speeds: Influence of stir bands. Materials & Design, 2011, 32, 2749-2755.	5.1	57