

Jagadeeswara Rao Chowdari

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	High-temperature electrochemical corrosion evaluation of 2.25Cr-1Mo alloy in eutectic LiCl-KCl molten salt. Corrosion Engineering Science and Technology, 2022, 57, 66-73.	1.4	1
2	Development of Silicon Carbide Interlayers for Plasma Spray Yttria Topcoat on Graphite for High-Temperature Applications. Materials Performance and Characterization, 2021, 10, 224-238.	0.3	1
3	Evaluation of oxidation resistant SiC-ZrB ₂ composite interlayer for plasma sprayed Y ₂ O ₃ coating over graphite. Corrosion Science, 2021, 190, 109645.	6.6	12
4	High-Temperature Air and Steam Oxidation and Oxide Layer Characteristics of Alloy 617. Journal of Materials Engineering and Performance, 2021, 30, 931-943.	2.5	10
5	Surface optimization of CVD grown silicon carbide interlayer on graphite for plasma sprayed yttria topcoat. Surface and Coatings Technology, 2020, 383, 125250.	4.8	4
6	Atmospheric air oxidation of 9Cr-1Mo steel: Depth profiling of oxide layers using glow discharge optical emission spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 172, 105973.	2.9	14
7	High temperature molten salt corrosion of structural materials in UCl ₃ -LiCl-KCl. Corrosion Engineering Science and Technology, 2020, 55, 425-433.	1.4	5
8	A review of ceramic coatings for high temperature uranium melting applications. Journal of Nuclear Materials, 2020, 540, 152354.	2.7	9
9	Studies on Electrochemical Generation of Ceric Ions in Nitric Acid Medium. ChemistrySelect, 2019, 4, 8934-8941.	1.5	0
10	In situ application of alternate potentials with chlorination synergistically enhanced biofouling control of titanium condenser materials. International Biodeterioration and Biodegradation, 2019, 144, 104746.	3.9	10
11	Pack cemented silicon carbide interlayer for plasma sprayed yttria over graphite. Materials and Manufacturing Processes, 2019, 34, 681-688.	4.7	10
12	Phase stability and thermal behavior of single layered PSZ and bi-layered PSZ/Gd ₂ Zr ₂ O ₇ on bond coated Inconel-718 substrate. Surface and Coatings Technology, 2019, 374, 500-512.	4.8	5
13	Evaluation of Yttria Coated High Density Graphite with Silicon Carbide Interlayer for Uranium Melting Applications. Ceramics International, 2019, 45, 11694-11702.	4.8	9
14	Corrosion assessment of 9Cr-1Mo steel in molten LiCl-KCl eutectic salt by electrochemical methods. Journal of Nuclear Materials, 2019, 514, 114-122.	2.7	10
15	Molten Salt Corrosion Resistance of Yttria Stabilized Zirconia Coating with Silicon Carbide Interlayer on High Density Graphite. Transactions of the Indian Institute of Metals, 2018, 71, 1237-1245.	1.5	11
16	Molten salt corrosion behavior of structural materials in LiCl-KCl-UCl ₃ by thermogravimetric study. Journal of Nuclear Materials, 2018, 501, 189-199.	2.7	16
17	Corrosion resistance of pyrolytic graphite in LiCl-KCl-UCl ₃ molten salt for pyrochemical reprocessing application. Corrosion Engineering Science and Technology, 2018, 53, 188-193.	1.4	6
18	Evaluation of Thermal Spray Alumina Coatings on Nickel Electrode Connector for Reprocessing Applications. Transactions of the Indian Institute of Metals, 2018, 71, 297-307.	1.5	0

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19	Corrosion Behaviour of Uncoated and Ceramic Coated 9Cr-1Mo Steel in Molten LiCl-KCl-UCl ₃ Salt. Transactions of the Indian Institute of Metals, 2017, 70, 1359-1367.	1.5	4
20	Corrosion Behavior of Yttria-Stabilized Zirconia-Coated 9Cr-1Mo Steel in Molten UCl ₃ -LiCl-KCl Salt. Journal of Thermal Spray Technology, 2017, 26, 569-580.	3.1	6
21	Electrochemical studies on the reduction of uranyl ions in nitric acid-hydrazine media. Journal of Electroanalytical Chemistry, 2016, 776, 127-133.	3.8	15
22	Electrochemical studies on the reduction behaviour of ruthenium nitrosyl ions in nitric acid medium. Journal of Applied Electrochemistry, 2015, 45, 209-216.	2.9	12
23	Electrochemical behaviour of Cu(II)/Cu(I) redox couple in 1-hexyl-3-methylimidazolium chloride ionic liquid. Journal of Chemical Sciences, 2015, 127, 133-140.	1.5	12
24	Corrosion Behavior of Structural Materials in LiCl-KCl Molten Salt by Thermogravimetric Study. Corrosion, 2015, 71, 502-509.	1.1	14
25	Performance evaluation of plasma sprayed yttria coatings on high density graphite for cathode processor applications. Ceramics International, 2015, 41, 3128-3136.	4.8	23
26	Evaluation of plasma sprayed alumina-40wt% titania and partially stabilized zirconia coatings on high density graphite for uranium melting application. Ceramics International, 2014, 40, 6509-6523.	4.8	15
27	Electrochemical Behaviour of Actinides and Fission Products in Room-Temperature Ionic Liquids. International Journal of Electrochemistry, 2012, 2012, 1-12.	2.4	17
28	Electrodeposition of metallic uranium at near ambient conditions from room temperature ionic liquid. Journal of Nuclear Materials, 2011, 408, 25-29.	2.7	52
29	Radiation stability of some room temperature ionic liquids. Radiation Physics and Chemistry, 2011, 80, 643-649.	2.8	42
30	Electrochemical and thermodynamic properties of europium(III), samarium(III) and cerium(III) in 1-butyl-3-methylimidazolium chloride ionic liquid. Journal of Nuclear Materials, 2010, 399, 81-86.	2.7	57
31	Thermochemical properties of some bis(trifluoromethyl-sulfonyl)imide based room temperature ionic liquids. Journal of Thermal Analysis and Calorimetry, 2009, 97, 937-943.	3.6	45
32	Electrochemical behavior of europium (III) in N-butyl-N-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide. Electrochimica Acta, 2009, 54, 4718-4725.	5.2	85
33	Dissolution of uranium oxides and electrochemical behavior of U(VI) in task specific ionic liquid. Radiochimica Acta, 2008, 96, 403-409.	1.2	60
34	Treatment of tissue paper containing radioactive waste and electrochemical recovery of valuables using ionic liquids. Electrochimica Acta, 2007, 53, 1911-1919.	5.2	30
35	Corrosion Behaviour of Plasma-Sprayed Nickel Coating on Type 316L Stainless Steel in High-Temperature Molten FLiNaK Salt. Transactions of the Indian Institute of Metals, 0, , 1.	1.5	1