

# Jagadeeswara Rao Chowdari

## List of Publications by Year in descending order

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35  
papers

624  
citations

759055

12  
h-index

610775

24  
g-index

36  
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36  
docs citations

36  
times ranked

574  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical behavior of europium (III) in N-butyl-N-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide. <i>Electrochimica Acta</i> , 2009, 54, 4718-4725.	2.6	85
2	Dissolution of uranium oxides and electrochemical behavior of U(VI) in task specific ionic liquid. <i>Radiochimica Acta</i> , 2008, 96, 403-409.	0.5	60
3	Electrochemical and thermodynamic properties of europium(III), samarium(III) and cerium(III) in 1-butyl-3-methylimidazolium chloride ionic liquid. <i>Journal of Nuclear Materials</i> , 2010, 399, 81-86.	1.3	57
4	Electrodeposition of metallic uranium at near ambient conditions from room temperature ionic liquid. <i>Journal of Nuclear Materials</i> , 2011, 408, 25-29.	1.3	52
5	Thermochemical properties of some bis(trifluoromethyl-sulfonyl)imide based room temperature ionic liquids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 97, 937-943.	2.0	45
6	Radiation stability of some room temperature ionic liquids. <i>Radiation Physics and Chemistry</i> , 2011, 80, 643-649.	1.4	42
7	Treatment of tissue paper containing radioactive waste and electrochemical recovery of valuables using ionic liquids. <i>Electrochimica Acta</i> , 2007, 53, 1911-1919.	2.6	30
8	Performance evaluation of plasma sprayed yttria coatings on high density graphite for cathode processor applications. <i>Ceramics International</i> , 2015, 41, 3128-3136.	2.3	23
9	Electrochemical Behaviour of Actinides and Fission Products in Room-Temperature Ionic Liquids. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-12.	2.4	17
10	Molten salt corrosion behavior of structural materials in LiCl-KCl-UCl <sub>3</sub> by thermogravimetric study. <i>Journal of Nuclear Materials</i> , 2018, 501, 189-199.	1.3	16
11	Evaluation of plasma sprayed alumina-40wt% titania and partially stabilized zirconia coatings on high density graphite for uranium melting application. <i>Ceramics International</i> , 2014, 40, 6509-6523.	2.3	15
12	Electrochemical studies on the reduction of uranyl ions in nitric acid-hydrazine media. <i>Journal of Electroanalytical Chemistry</i> , 2016, 776, 127-133.	1.9	15
13	Corrosion Behavior of Structural Materials in LiCl-KCl Molten Salt by Thermogravimetric Study. <i>Corrosion</i> , 2015, 71, 502-509.	0.5	14
14	Atmospheric air oxidation of 9Cr-1Mo steel: Depth profiling of oxide layers using glow discharge optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 172, 105973.	1.5	14
15	Electrochemical studies on the reduction behaviour of ruthenium nitrosyl ions in nitric acid medium. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 209-216.	1.5	12
16	Electrochemical behaviour of Cu(II)/Cu(I) redox couple in 1-hexyl-3-methylimidazolium chloride ionic liquid. <i>Journal of Chemical Sciences</i> , 2015, 127, 133-140.	0.7	12
17	Evaluation of oxidation resistant SiC-ZrB <sub>2</sub> composite interlayer for plasma sprayed Y <sub>2</sub> O <sub>3</sub> coating over graphite. <i>Corrosion Science</i> , 2021, 190, 109645.	3.0	12
18	Molten Salt Corrosion Resistance of Yttria Stabilized Zirconia Coating with Silicon Carbide Interlayer on High Density Graphite. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 1237-1245.	0.7	11

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19	In situ application of alternate potentials with chlorination synergistically enhanced biofouling control of titanium condenser materials. International Biodeterioration and Biodegradation, 2019, 144, 104746.	1.9	10
20	Pack cemented silicon carbide interlayer for plasma sprayed yttria over graphite. Materials and Manufacturing Processes, 2019, 34, 681-688.	2.7	10
21	Corrosion assessment of 9Cr-1Mo steel in molten LiCl-KCl eutectic salt by electrochemical methods. Journal of Nuclear Materials, 2019, 514, 114-122.	1.3	10
22	High-Temperature Air and Steam Oxidation and Oxide Layer Characteristics of Alloy 617. Journal of Materials Engineering and Performance, 2021, 30, 931-943.	1.2	10
23	Evaluation of Yttria Coated High Density Graphite with Silicon Carbide Interlayer for Uranium Melting Applications. Ceramics International, 2019, 45, 11694-11702.	2.3	9
24	A review of ceramic coatings for high temperature uranium melting applications. Journal of Nuclear Materials, 2020, 540, 152354.	1.3	9
25	Corrosion Behavior of Yttria-Stabilized Zirconia-Coated 9Cr-1Mo Steel in Molten UCl <sub>3</sub> -LiCl-KCl Salt. Journal of Thermal Spray Technology, 2017, 26, 569-580.	1.6	6
26	Corrosion resistance of pyrolytic graphite in LiCl-KCl-UCl <sub>3</sub> molten salt for pyrochemical reprocessing application. Corrosion Engineering Science and Technology, 2018, 53, 188-193.	0.7	6
27	Phase stability and thermal behavior of single layered PSZ and bi-layered PSZ/Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> on bond coated Inconel-718 substrate. Surface and Coatings Technology, 2019, 374, 500-512.	2.2	5
28	High temperature molten salt corrosion of structural materials in UCl <sub>3</sub> -LiCl-KCl. Corrosion Engineering Science and Technology, 2020, 55, 425-433.	0.7	5
29	Corrosion Behaviour of Uncoated and Ceramic Coated 9Cr-1Mo Steel in Molten LiCl-KCl-UCl <sub>3</sub> Salt. Transactions of the Indian Institute of Metals, 2017, 70, 1359-1367.	0.7	4
30	Surface optimization of CVD grown silicon carbide interlayer on graphite for plasma sprayed yttria topcoat. Surface and Coatings Technology, 2020, 383, 125250.	2.2	4
31	Development of Silicon Carbide Interlayers for Plasma Spray Yttria Topcoat on Graphite for High-Temperature Applications. Materials Performance and Characterization, 2021, 10, 224-238.	0.2	1
32	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.	0.7	1
33	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.	0.7	1
34	Evaluation of Thermal Spray Alumina Coatings on Nickel Electrode Connector for Reprocessing Applications. Transactions of the Indian Institute of Metals, 2018, 71, 297-307.	0.7	0
35	Studies on Electrochemical Generation of Ceric Ions in Nitric Acid Medium. ChemistrySelect, 2019, 4, 8934-8941.	0.7	0