

Dev Chidambaram

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

660
citations

15
h-index

24
g-index

54
ext. papers

757
ext. citations

5.2
avg, IF

4.37
L-index

#	Paper	IF	Citations
46	Molten salt reactors and electrochemical reprocessing: synthesis and chemical durability of potential waste forms for metal and salt waste streams. <i>International Materials Reviews</i> , 2021 , 66, 339-363	16.1	4
45	Corrosion Behavior of High Nickel Alloys in Molten Nitrate Solar Salt. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 021502	3.9	
44	Corrosion of Additively Manufactured CoCrFeMnNi High Entropy Alloy in Molten NaNO ₃ -KNO ₃ . <i>Journal of the Electrochemical Society</i> , 2020 , 167, 081509	3.9	3
43	Design, Development, and Evaluation of a High Resolution, Customizable 3D-Printed Flow-Type Electrochemical Microcell. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 121501	3.9	3
42	Use of electrospun threads in immobilized cell reactors for continuous ethanol production. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 989-993	6	2
41	Effect of Metallic Li on the Surface Chemistry of Inconel 625 Exposed to Molten LiCl-Li ₂ O-Li. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C3193-C3199	3.9	1
40	Effect of Metallic Li on the Corrosion Behavior of Inconel 625 in Molten LiCl-Li ₂ O-Li. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C162-C168	3.9	6
39	Corrosion of stainless steel 316L in molten LiCl-Li ₂ O-Li. <i>Journal of Nuclear Materials</i> , 2019 , 517, 241-253	3.3	5
38	Catalytic Activity of Microbially-formed Palladium Nanoparticles. <i>Electroanalysis</i> , 2018 , 30, 259-265	3	
37	Microbial synthesis of metallic molybdenum nanoparticles. <i>Chemosphere</i> , 2018 , 203, 521-525	8.4	14
36	On the Corrosion Performance of Monel 400 in Molten LiCl-Li ₂ O-Li at 923 K. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 2384-2392	2.3	8
35	Use of <i>Zymomonas mobilis</i> immobilized in doped calcium alginate threads for ethanol production. <i>Energy</i> , 2018 , 165, 603-609	7.9	3
34	Esterification Kinetics of Phosphotungstic Acid Loaded KIT-5 Catalyzed Biodiesel Production. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14948-14956	3.9	2
33	Solid-acid catalyzed biodiesel production, part I: biodiesel synthesis from low quality feedstock. <i>Journal of Cleaner Production</i> , 2017 , 142, 4169-4177	10.3	27
32	Surface chemistry and corrosion behavior of Inconel 625 and 718 in subcritical, supercritical, and ultrasupercritical water. <i>Applied Surface Science</i> , 2017 , 404, 443-451	6.7	23
31	Sustainable batch production of biosynthesized nanoparticles. <i>Materials Letters</i> , 2017 , 191, 53-56	3.3	4
30	Effect of heat treatment conditions on the passivation behavior of WE43C Mg alloy in chloride containing alkaline environments. <i>Journal of Magnesium and Alloys</i> , 2017 , 5, 147-165	8.8	11

29	Review Metallic Lithium and the Reduction of Actinide Oxides. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5236-H5246	3.9	28
28	The effect of LiO on the corrosion of stainless steel alloy 316L exposed to molten LiCl-Li ₂ O-Li. <i>Corrosion Science</i> , 2017 , 126, 1-9	6.8	10
27	Corrosion Behavior of Structural Materials for Potential Use in Nitrate Salts Based Solar Thermal Power Plants. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5357-H5363	3.9	15
26	Effect of quinone additives on the performance of electrolytes for vanadium redox flow Batteries. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 1173-1178	2.6	4
25	Accelerated estimation of corrosion rate in supercritical and ultra-supercritical water. <i>Npj Materials Degradation</i> , 2017 , 1,	5.7	3
24	Corrosion of INCONEL Alloy 625 in Molten LiCl-Li ₂ O-Li. <i>Nuclear Technology</i> , 2016 , 195, 204-212	1.4	9
23	Enhanced Performance of Bi ₂ O ₃ by In-Situ Photo-Conversion to Bi ₂ O ₃ -BiO ₂ -x Composite Photoanode for Solar Water Splitting. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H546-H558	3.9	31
22	The Influence of Dopants on the Effectiveness of Alginate Beads in Immobilized Cell Reactors. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 1503-9	3.2	3
21	Comparison of Performance and Oxidation of Nitronic-50 and Stainless Steel 316 in Subcritical and Supercritical Water Environments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2498-2508	2.3	7
20	Production of renewable aviation fuel range alkanes from algae oil. <i>RSC Advances</i> , 2016 , 6, 14626-14634	3.7	8
19	Presence of Li Clusters in Molten LiCl-Li. <i>Scientific Reports</i> , 2016 , 6, 25435	4.9	20
18	Enhancing kinetics of biodiesel production using morpholine. <i>Catalysis Communications</i> , 2016 , 83, 48-52	3.2	5
17	Oxidation of stainless steel 316 and Nitronic 50 in supercritical and ultrasupercritical water. <i>Applied Surface Science</i> , 2015 , 347, 10-16	6.7	27
16	Photoelectrochemical generation of hydrogen and electricity from hydrazine hydrate using BiVO ₄ electrodes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13851-9	3.6	9
15	Enhanced Photoelectrochemical Performance of Anodic Nanoporous Bi ₂ O ₃ . <i>Journal of the Electrochemical Society</i> , 2015 , 162, H380-H391	3.9	15
14	Photoelectric performance of TiO ₂ nanotube array photoelectrodes sensitized with CdS _{0.54} Se _{0.46} quantum dots. <i>Applied Surface Science</i> , 2015 , 355, 1279-1288	6.7	27
13	Ni-Ci oxygen evolution catalyst integrated BiVO ₄ photoanodes for solar induced water oxidation. <i>RSC Advances</i> , 2015 , 5, 47080-47089	3.7	11
12	Conversion of a variety of high free fatty acid containing feedstock to biodiesel using solid acid supported catalyst. <i>Journal of Cleaner Production</i> , 2015 , 104, 273-281	10.3	29

11	Photoelectrochemical Behavior of Nanoporous Oxide of FeNdB Alloy. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H220-H228	3.9	3
10	Alternate Anodes for the Electrolytic Reduction of UO ₂ . <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 536-544	2.3	15
9	Single step esterification of algae oil using mesoporous solid acid catalyst. <i>Fuel</i> , 2014 , 117, 1093-1095	7.1	11
8	Effect of Anaerobic Microbial Corrosion on the Surface Film Formed on Steel. <i>ECS Transactions</i> , 2014 , 58, 137-149	1	1
7	Application of ZnxCd _{1-x} Se-sensitized TiO ₂ nanotube arrays as photoanodes for solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10116	13	21
6	Sensitization of TiO ₂ nanotube array photoelectrodes with MnxCd _y Se. <i>RSC Advances</i> , 2014 , 4, 49729-49736	3.6	5
5	Anodic Titania Nanotube Arrays Sensitized with Mn- or Co-Doped CdS Nanocrystals. <i>Electrochimica Acta</i> , 2014 , 135, 503-512	6.7	18
4	On the oxidation of stainless steel alloy 304 in subcritical and supercritical water. <i>Journal of Nuclear Materials</i> , 2014 , 452, 440-445	3.3	32
3	Virus removal by biogenic cerium. <i>Environmental Science & Technology</i> , 2010 , 44, 6350-6	10.3	25
2	Concomitant microbial generation of palladium nanoparticles and hydrogen to immobilize chromate. <i>Environmental Science & Technology</i> , 2010 , 44, 7635-40	10.3	74
1	Engineering of bio-hybrid materials by electrospinning polymer-microbe fibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14201-6	11.5	78