# Dev Chidambaram

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4271728/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 50 papers | 867 citations | 535685 17 h-index | 563245 28 g-index |
| 54 all docs | 54 docs citations | 54 times ranked | 1417 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Oxidation of Alloy X in Subcritical, Transition, and Supercritical Water. Corrosion, 2022, 78, 25-31. | 0.5 | 1 |
| 2 | Coordination and Thermophysical Properties of Select Trivalent Lanthanides in LiCl-KCl. Physical Chemistry Chemical Physics, 2022, , . | 1.3 | 1 |
| 3 | Molten salt reactors and electrochemical reprocessing: synthesis and chemical durability of potential waste forms for metal and salt waste streams. International Materials Reviews, 2021, 66, 339-363. | 9.4 | 11 |
| 4 | Corrosion Behavior of High Nickel Alloys in Molten Nitrate Solar Salt. Journal of the Electrochemical Society, 2021, 168, 021502. | 1.3 | 1 |
| 5 | Corrosion in Molten Salts for Solar Thermal Power. Electrochemical Society Interface, 2021, 30, 63-66. | 0.3 | 5 |
| 6 | Corrosion of Additively Manufactured CoCrFeMnNi High Entropy Alloy in Molten NaNO<sub>3</sub>-KNO<sub>3</sub>. Journal of the Electrochemical Society, 2020, 167, 081509. | 1.3 | 8 |
| 7 | Communicationâ€"Design, Development, and Evaluation of a High Resolution, Customizable 3D-Printed Flow-Type Electrochemical Microcell. Journal of the Electrochemical Society, 2020, 167, 121501. | 1.3 | 3 |
| 8 | Use of electrospun threads in immobilized cell reactors for continuous ethanol production. Colloids and Surfaces B: Biointerfaces, 2019, 181, 989-993. | 2.5 | 5 |
| 9 | Effect of Metallic Li on the Surface Chemistry of Inconel 625 Exposed to Molten LiCl-Li<sub>2</sub>O-Li. Journal of the Electrochemical Society, 2019, 166, C3193-C3199. | 1.3 | 3 |
| 10 | Effect of Metallic Li on the Corrosion Behavior of Inconel 625 in Molten LiCl-Li<sub>2</sub>O-Li. Journal of the Electrochemical Society, 2019, 166, C162-C168. | 1.3 | 8 |
| 11 | Corrosion of stainless steel 316L in molten LiCl-Li2O-Li. Journal of Nuclear Materials, 2019, 517, 241-253. | 1.3 | 9 |
| 12 | Catalytic Activity of Microbiallyâ€formed Palladium Nanoparticles. Electroanalysis, 2018, 30, 259-265. | 1.5 | 0 |
| 13 | Microbial synthesis of metallic molybdenum nanoparticles. Chemosphere, 2018, 203, 521-525. | 4.2 | 20 |
| 14 | On the Corrosion Performance of Monel 400 in Molten LiCl-Li2O-Li at 923 K. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2384-2392. | 1.1 | 8 |
| 15 | Use of Zymomonas mobilis immobilized in doped calcium alginate threads for ethanol production. Energy, 2018, 165, 603-609. | 4.5 | 6 |
| 16 | Esterification Kinetics of Phosphotungstic Acid Loaded KIT-5 Catalyzed Biodiesel Production. Industrial & Engineering Chemistry Research, 2018, 57, 14948-14956. | 1.8 | 5 |
| 17 | Solid-acid catalyzed biodiesel production, part I: biodiesel synthesis from low quality feedstock. Journal of Cleaner Production, 2017, 142, 4169-4177. | 4.6 | 33 |
| 18 | Surface chemistry and corrosion behavior of Inconel 625 and 718 in subcritical, supercritical, and ultrasupercritical water. Applied Surface Science, 2017, 404, 443-451. | 3.1 | 41 |

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|---|---|---|---|
| 19 | Sustainable batch production of biosynthesized nanoparticles. Materials Letters, 2017, 191, 53-56. | 1.3 | 5 |
| 20 | Effect of heat treatment conditions on the passivation behavior of WE43C Mgâ€"Yâ€"Nd alloy in chloride containing alkaline environments. Journal of Magnesium and Alloys, 2017, 5, 147-165. | 5.5 | 24 |
| 21 | Reviewâ€"Metallic Lithium and the Reduction of Actinide Oxides. Journal of the Electrochemical Society, 2017, 164, H5236-H5246. | 1.3 | 33 |
| 22 | The effect of Li0 on the corrosion of stainless steel alloy 316L exposed to molten LiCl-Li2O-Li. Corrosion Science, 2017, 126, 1-9. | 3.0 | 15 |
| 23 | Corrosion Behavior of Structural Materials for Potential Use in Nitrate Salts Based Solar Thermal Power Plants. Journal of the Electrochemical Society, 2017, 164, H5357-H5363. | 1.3 | 25 |
| 24 | Effect of quinone additives on the performance of electrolytes for vanadium redox flow Batteries. Journal of Applied Electrochemistry, 2017, 47, 1173-1178. | 1.5 | 7 |
| 25 | Accelerated estimation of corrosion rate in supercritical and ultra-supercritical water. Npj Materials Degradation, 2017, 1, . | 2.6 | 5 |
| 26 | Presence of Li Clusters in Molten LiCl-Li. Scientific Reports, 2016, 6, 25435. | 1.6 | 26 |
| 27 | Enhancing kinetics of biodiesel production using morpholine. Catalysis Communications, 2016, 83, 48-52. | 1.6 | 7 |
| 28 | Corrosion of INCONEL Alloy 625 in Molten LiCl-Li<sub>2</sub>O-Li. Nuclear Technology, 2016, 195, 204-212. | 0.7 | 9 |
| 29 | Enhanced Performance of Î²-Bi<sub>2</sub>O<sub>3</sub>by In-Situ Photo-Conversion to Bi<sub>2</sub>O<sub>3</sub>-BiO<sub>2-x</sub>Composite Photoanode for Solar Water Splitting. Journal of the Electrochemical Society, 2016, 163, H546-H558. | 1.3 | 40 |
| 30 | The Influence of Dopants on the Effectiveness of Alginate Beads in Immobilized Cell Reactors. Applied Biochemistry and Biotechnology, 2016, 178, 1503-1509. | 1.4 | 3 |
| 31 | Comparison of Performance and Oxidation of Nitronic-50 and Stainless Steel 316 in Subcritical and Supercritical Water Environments. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2498-2508. | 1.1 | 12 |
| 32 | Production of renewable aviation fuel range alkanes from algae oil. RSC Advances, 2016, 6, 14626-14634. | 1.7 | 11 |
| 33 | Ni-Ci oxygen evolution catalyst integrated BiVO<sub>4</sub> photoanodes for solar induced water oxidation. RSC Advances, 2015, 5, 47080-47089. | 1.7 | 15 |
| 34 | Conversion of a variety of high free fatty acid containing feedstock to biodiesel using solid acid supported catalyst. Journal of Cleaner Production, 2015, 104, 273-281. | 4.6 | 34 |
| 35 | Photoelectrochemical Behavior of Nanoporous Oxide of FeNdB Alloy. Journal of the Electrochemical Society, 2015, 162, H220-H228. | 1.3 | 3 |
| 36 | Alternate Anodes for the Electrolytic Reduction of UO2. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 536-544. | 1.1 | 17 |

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|---|---|---|---|
| 37 | Oxidation of stainless steel 316 and Nitronic 50 in supercritical and ultrasupercritical water. Applied Surface Science, 2015, 347, 10-16. | 3.1 | 45 |
| 38 | Photoelectrochemical generation of hydrogen and electricity from hydrazine hydrate using BiVO<sub>4</sub> electrodes. Physical Chemistry Chemical Physics, 2015, 17, 13851-13859. | 1.3 | 11 |
| 39 | Enhanced Photoelectrochemical Performance of Anodic Nanoporous Î²-Bi<sub>2</sub>O<sub>3</sub>. Journal of the Electrochemical Society, 2015, 162, H380-H391. | 1.3 | 18 |
| 40 | Photoelectric performance of TiO2 nanotube array photoelectrodes sensitized with CdS0.54Se0.46 quantum dots. Applied Surface Science, 2015, 355, 1279-1288. | 3.1 | 30 |
| 41 | Single step esterification of algae oil using mesoporous solid acid catalyst. Fuel, 2014, 117, 1093-1095. | 3.4 | 13 |
| 42 | Effect of Anaerobic Microbial Corrosion on the Surface Film Formed on Steel. ECS Transactions, 2014, 58, 137-149. | 0.3 | 2 |
| 43 | Application of ZnxCd1âˆ’xSe-sensitized TiO2 nanotube arrays as photoanodes for solar cells. Journal of Materials Chemistry A, 2014, 2, 10116. | 5.2 | 22 |
| 44 | Sensitization of TiO<sub>2</sub>nanotube array photoelectrodes with Mn<sub>x</sub>Cd<sub>y</sub>Se. RSC Advances, 2014, 4, 49729-49736. | 1.7 | 7 |
| 45 | Anodic Titania Nanotube Arrays Sensitized with Mn- or Co-Doped CdS Nanocrystals. Electrochimica Acta, 2014, 135, 503-512. | 2.6 | 18 |
| 46 | On the oxidation of stainless steel alloy 304 in subcritical and supercritical water. Journal of Nuclear Materials, 2014, 452, 440-445. | 1.3 | 38 |
| 47 | Virus Removal by Biogenic Cerium. Environmental Science & Technology, 2010, 44, 6350-6356. | 4.6 | 30 |
| 48 | Concomitant Microbial Generation of Palladium Nanoparticles and Hydrogen To Immobilize Chromate. Environmental Science & Technology, 2010, 44, 7635-7640. | 4.6 | 82 |
| 49 | Engineering of bio-hybrid materials by electrospinning polymer-microbe fibers. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14201-14206. | 3.3 | 88 |
| 50 | Assessment of thermodynamic stability of sapphire in eutectic molten chloride environment. Journal of the American Ceramic Society, 0, , . | 1.9 | 1 |