

Vidhya Selvanathan

List of Publications by Year in descending order

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27
papers

951
citations

516561

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28
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	pH Sensitive Hydrogels in Drug Delivery: Brief History, Properties, Swelling, and Release Mechanism, Material Selection and Applications. <i>Polymers</i> , 2017, 9, 137.	2.0	415
2	Current trends and prospects of tidal energy technology. <i>Environment, Development and Sustainability</i> , 2021, 23, 8179-8194.	2.7	95
3	Ternary natural deep eutectic solvent (NADES) infused phthaloyl starch as cost efficient quasi-solid gel polymer electrolyte. <i>Carbohydrate Polymers</i> , 2017, 167, 210-218.	5.1	45
4	Improvement of N-phthaloylchitosan based gel polymer electrolyte in dye-sensitized solar cells using a binary salt system. <i>Carbohydrate Polymers</i> , 2017, 157, 938-944.	5.1	32
5	Diluted chemical bath deposition of CdZnS as prospective buffer layer in CIGS solar cell. <i>Ceramics International</i> , 2021, 47, 11003-11009.	2.3	28
6	Recovery of FTO coated glass substrate via environment-friendly facile recycling perovskite solar cells. <i>RSC Advances</i> , 2021, 11, 14534-14541.	1.7	27
7	Effects of oxygen concentration variation on the structural and optical properties of reactive sputtered WO _x thin film. <i>Solar Energy</i> , 2021, 222, 202-211.	2.9	26
8	Synthesis of a novel organosoluble, biocompatible, and antibacterial chitosan derivative for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45905.	1.3	21
9	Effect of polar aprotic solvents on hydroxyethyl cellulose-based gel polymer electrolyte. <i>Ionics</i> , 2018, 24, 1955-1964.	1.2	20
10	A novel application for oil palm empty fruit bunch: extraction and modification of cellulose for solid polymer electrolyte. <i>Ionics</i> , 2018, 24, 3827-3836.	1.2	20
11	Organosoluble starch derivative as quasi-solid electrolytes in DSSC: Unravelling the synergy between electrolyte rheology and photovoltaic properties. <i>Solar Energy</i> , 2020, 197, 144-153.	2.9	20
12	Phytochemical-Assisted Green Synthesis of Nickel Oxide Nanoparticles for Application as Electrocatalysts in Oxygen Evolution Reaction. <i>Catalysts</i> , 2021, 11, 1523.	1.6	20
13	Artificial Neural Network and Response Surface Methodology Modeling in Ionic Conductivity Predictions of Phthaloylchitosan-Based Gel Polymer Electrolyte. <i>Polymers</i> , 2016, 8, 22.	2.0	19
14	Muntingia calabura Leaves Mediated Green Synthesis of CuO Nanorods: Exploiting Phytochemicals for Unique Morphology. <i>Materials</i> , 2021, 14, 6379.	1.3	19
15	Organosoluble Starch-Cellulose Binary Polymer Blend as a Quasi-Solid Electrolyte in a Dye-Sensitized Solar Cell. <i>Polymers</i> , 2020, 12, 516.	2.0	16
16	Improved ionic conductivity in guar gum succinate-based polymer electrolyte membrane. <i>High Performance Polymers</i> , 2018, 30, 993-1001.	0.8	12
17	Enhancing spectral response towards high-performance dye-sensitised solar cells by multiple dye approach: A comprehensive review. <i>Applied Materials Today</i> , 2021, 25, 101204.	2.3	11
18	Oil palm waste based phthaloyl cellulose: a product of photosynthesis as an electrolyte of photovoltaics. <i>Cellulose</i> , 2019, 26, 1605-1617.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Resorcinol-Formaldehyde (RF) as a Novel Plasticizer for Starch-Based Solid Biopolymer Electrolyte. <i>Polymers</i> , 2020, 12, 2170.	2.0	10
20	Ionic liquid infused starch-cellulose derivative based quasi-solid dye-sensitized solar cell: exploiting the rheological properties of natural polymers. <i>Cellulose</i> , 2021, 28, 5545.	2.4	9
21	Organosoluble, esterified starch as quasi-solid biopolymer electrolyte in dye-sensitized solar cell. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1638-1648.	2.6	9
22	Conductivity or rheology? Tradeoff for competing properties in the fabrication of a gel polymer electrolyte based on chitosan-barbiturate derivative. <i>Ionics</i> , 2018, 24, 3015-3025.	1.2	5
23	Koch Fractal Loop Circular Polarization (CP) Antenna Integrated with Solar Cells. , 2019, , .		5
24	The impact of acetylation on physical and electrochemical characteristics of cellulose-based quasi-solid polymer electrolytes. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	5
25	Transformation of Oil Palm Waste-Derived Cellulose into Solid Polymer Electrolytes: Investigating the Crucial Role of Plasticizers. <i>Polymers</i> , 2021, 13, 3685.	2.0	3
26	Sustainable production of oxalic acid from waste cane sugar molasses via systemic recycling of nitrogen oxide. <i>Journal of Cleaner Production</i> , 2022, 339, 130704.	4.6	2
27	The impact of substitution of two hydrophobic moieties on the properties of guar gum based hydrogels. <i>Pigment and Resin Technology</i> , 2021, ahead-of-print, .	0.5	0