Arulappan Durairaj

List of Publications by Year
in descending order

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27	437	840776 11	752698 20
papers	citations	h-index	g-index

27	27	27	405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of biomass-based carbon aerogels in energy and sustainability. Carbohydrate Research, 2020, 491, 107986.	2.3	56
2	Conversion of laboratory paper waste into useful activated carbon: a potential supercapacitor material and a good adsorbent for organic pollutant and heavy metals. Cellulose, 2019, 26, 3313-3324.	4.9	50
3	Enhanced photocatalytic activity of transition metal ions doped gâ€“C3N4 nanosheet activated by PMS for organic pollutant degradation. Journal of Materials Science: Materials in Electronics, 2018, 29, 8201-8209.	2.2	38
4	Boron, nitrogen co-doped biomass-derived carbon aerogel embedded nickel-cobalt-iron nanoparticles as a promising electrocatalyst for oxygen evolution reaction. Journal of Colloid and Interface Science, 2022, 613, 126-135.	9.4	30
5	Synthesis of reduced graphene oxide/ZnO nanocomposites using grape fruit extract and Eichhornia crassipes leaf extract and a comparative study of their photocatalytic property in degrading Rhodamine B dye. Journal of Environmental Health Science & Engineering, 2019, 17, 195-207.	3.0	28
6	Aloe vera (L.) Burm.f. extract reduced graphene oxide for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2017, 28, 16648-16657.	2.2	22
7	Eco-friendly Synthesis of CRGO and CRGO/SnO₂ Nanocomposite for Photocatalytic Degradation of Methylene Green Dye. ACS Omega, 2020, 5, 158-169.	3.5	21
8	Potato peels biochar composite with copper phthalocyanine for energy storage application. Diamond and Related Materials, 2021, 115, 108360.	3.9	20
9	Grape Seed Extract Assisted Synthesis of Dual-Functional Anatase TiO₂ Decorated Reduced Graphene Oxide Composite for Supercapacitor Electrode Material and Visible Light Photocatalytic Degradation of Bromophenol Blue Dye. ACS Omega, 2021, 6, 14734-14747.	3.5	18
10	Quenching-Induced Structural Distortion of Graphitic Carbon Nitride Nanostructures: Enhanced Photocatalytic Activity and Electrochemical Hydrogen Production. ACS Omega, 2019, 4, 6476-6485.	3.5	16
11	Air bubbles induced piezophotocatalytic degradation of organic pollutants using nanofibrous poly(vinylidene fluoride)-titanium dioxide hybrid. Applied Surface Science, 2019, 493, 1268-1277.	6.1	15
12	Hierarchical Cu2Se nanostructures film for peroxymonosulfate activation and electrocatalytic hydrogen evolution. Journal of the Taiwan Institute of Chemical Engineers, 2019, 99, 66-73.	5.3	13
13	Fabrication of highly dispersed <scp> Mo ₂ C </scp> coupled with <scp>Coâ€Nâ€C</scp> via selfâ€template as bifunctional electrocatalysts. International Journal of Energy Research, 2021, 45, 10989-11001.	4.5	12
14	Synthesis of porous g-C3N4 doped vanadyl phosphate for supercapattery application. Journal of Energy Storage, 2021, 40, 102786.	8.1	12
15	Development of tungsten disulfide ZnO nanohybrid photocatalyst for organic pollutants removal. Journal of Materials Science: Materials in Electronics, 2018, 29, 19413-19424.	2.2	11
16	Musa paradisiaca reduced graphene oxide (BRGO) /MWCNT-Fe3O4 nanocomposite for supercapacitor and photocatalytic applications. Materials Today: Proceedings, 2021, 47, 843-852.	1.8	10
17	Synthesis of bi-functional Ni/Co phosphate nanocomposites for Peroxymonosulphate activation and supercapacitor electrode. Journal of Environmental Chemical Engineering, 2021, 9, 106426.	6.7	10
18	Tea waste biochar composite with nickel phthalocyanine as a potential supercapacitor electrode material. Biomass Conversion and Biorefinery, 2023, 13, 13937-13947.	4.6	8

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19	Electrochemical Detection of Trace Amounts of Arsenic (III) in Poultry Using a Graphene Oxide-Bis(2-(4,5-diphenyl-1H-imidazol-2-yl)phenoxy)Cobalt Composite Modified Electrode. Journal of Electronic Materials, 2019, 48, 4498-4506.	2.2	7
20	Efficient degradation of emerging organic pollutant by cerium phosphate/g-C3N4/Vis/PMS system: Catalytic kinetics and toxicity evaluation. Diamond and Related Materials, 2022, 126, 109067.	3.9	7
21	Development of a electrochemical sensor for the detection of 2,4-dichlorophenol using a polymer nanocomposite of rGO. Journal of Materials Science: Materials in Electronics, 2019, 30, 7150-7162.	2.2	6
22	HRGOâ€“Co@SnO2 Nanocomposite for Electrochemical Detection of Hydrazine. Journal of Electronic Materials, 2019, 48, 542-550.	2.2	6
23	Development of rutin-rGO/TiO2 nanocomposite for electrochemical detection and photocatalytic removal of 2,4-DCP. Journal of the Iranian Chemical Society, 2021, 18, 2457-2472.	2.2	6
24	Facile synthesis of waste-derived carbon/MoS2 composite for energy storage and water purification applications. Biomass Conversion and Biorefinery, 2023, 13, 3247-3258.	4.6	6
25	Synthesis, Characterization and Solvatochromic Studies Using the Solvent Polarity Parameter, ENT on 2-Chloro-3-Ethylamino-1,4-Naphthoquinone. Journal of Fluorescence, 2017, 27, 1505-1512.	2.5	4
26	Low cost electrochemical composite material of paper cup waste carbon (P-carbon) and Fluorescein for supercapacitor application. Materials Today: Proceedings, 2021, 47, 825-836.	1.8	3
27	Novel VOPO4/g-C3N4-PMS system for organic pollutant degradation: Assessment of toxicity by Danio rerio. Journal of Water Process Engineering, 2021, 44, 102422.	5.6	2