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	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
2	Tea waste biochar composite with nickel phthalocyanine as a potential supercapacitor electrode material. Biomass Conversion and Biorefinery, 2023, 13, 13937-13947.	4.6	8
3	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
4	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
5	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
6	Musa paradisiaca reduced graphene oxide (BRGO) /MWCNT-Fe3O4 nanocomposite for supercapacitor and photocatalytic applications. Materials Today: Proceedings, 2021, 47, 843-852.	1.8	10
7	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
8	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
9	Potato peels biochar composite with copper phthalocyanine for energy storage application. Diamond and Related Materials, 2021, 115, 108360.	3.9	20
10	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
11	Synthesis of porous g-C3N4 doped vanadyl phosphate for supercapattery application. Journal of Energy Storage, 2021, 40, 102786.	8.1	12
12	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
13	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
14	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
15	Synthesis of biomass-based carbon aerogels in energy and sustainability. Carbohydrate Research, 2020, 491, 107986.	2.3	56
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	HRGOâ€“Co@SnO2 Nanocomposite for Electrochemical Detection of Hydrazine. Journal of Electronic Materials, 2019, 48, 542-550.	2.2	6
24	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
25	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
26	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
27	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