

Rajesh Pandiyan

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,870
citations

257101

24
h-index

276539

41
g-index

69
all docs

69
docs citations

69
times ranked

2193
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of sulfonic acid group functionalized graphene oxide to improve hydrophilicity, permeability, and antifouling of PVDF nanocomposite ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017, 525, 210-219.	4.1	349
2	Pyrolysis: An effective technique for degradation of COVID-19 medical wastes. <i>Chemosphere</i> , 2021, 275, 130092.	4.2	134
3	Constructed wetlands as sustainable ecotechnologies in decentralization practices: a review. <i>Environmental Science and Pollution Research</i> , 2016, 23, 180-197.	2.7	95
4	Ameliorative potential of gingerol: Promising modulation of inflammatory factors and lipid marker enzymes expressions in HFD induced obesity in rats. <i>Molecular and Cellular Endocrinology</i> , 2016, 419, 139-147.	1.6	85
5	Nanocomposite membranes based on sulfonated polystyrene ethylene butylene polystyrene (SSEBS) and sulfonated SiO ₂ for microbial fuel cell application. <i>Chemical Engineering Journal</i> , 2016, 289, 442-451.	6.6	77
6	Enhanced antifouling performance of PVDF ultrafiltration membrane by blending zinc oxide with support of graphene oxide nanoparticle. <i>Chemosphere</i> , 2020, 241, 125068.	4.2	77
7	Effectiveness of Domestic Wastewater Treatment Using a Bio-Hedge Water Hyacinth Wetland System. <i>Water (Switzerland)</i> , 2015, 7, 329-347.	1.2	69
8	Structural and near-infrared luminescence properties of Nd-doped TiO ₂ films deposited by RF sputtering. <i>Journal of Materials Chemistry</i> , 2012, 22, 22424.	6.7	55
9	Improved visible light photocatalytic activity of rGO-Fe ₃ O ₄ -NiO hybrid nanocomposites synthesized by <i>in situ</i> facile method for industrial wastewater treatment applications. <i>New Journal of Chemistry</i> , 2018, 42, 4372-4383.	1.4	49
10	Fabrication and separation performance of polyethersulfone/sulfonated TiO ₂ (PES-STiO ₂) ultrafiltration membranes for fouling mitigation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 199-209.	2.9	49
11	Synthesis and application of CdS nanorods for LED-based photocatalytic degradation of tetracycline antibiotic. <i>Chemosphere</i> , 2022, 291, 132870.	4.2	47
12	Fate of antibiotic resistant genes in wastewater environments and treatment strategies - A review. <i>Chemosphere</i> , 2022, 298, 134671.	4.2	47
13	Antibacterial and photocatalytic activity of hydrothermally synthesized SnO ₂ doped GO and CNT under visible light irradiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 191, 18-25.	1.7	45
14	Fabrication and characterization of anti-fouling and non-toxic polyvinylidene fluoride-Sulphonated carbon nanotube ultrafiltration membranes for membrane bioreactors applications. <i>Chemical Engineering Research and Design</i> , 2019, 142, 176-188.	2.7	42
15	Characterization of <i>Trichoderma asperellum</i> RM-28 for its sodic/saline-alkali tolerance and plant growth promoting activities to alleviate toxicity of red mud. <i>Science of the Total Environment</i> , 2019, 662, 462-469.	3.9	41
16	Effectiveness of piggery waste treatment using microbial fuel cells coupled with elutriated-phased acid fermentation. <i>Bioresource Technology</i> , 2017, 244, 650-657.	4.8	40
17	Surface modification of sol gel TiO ₂ surface with sputtered metallic silver for Sun light photocatalytic activity: Initial studies. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 241-248.	3.0	34
18	Performance of high-rate constructed phytoremediation process with attached growth for domestic wastewater treatment: Effect of high TDS and Cu. <i>Journal of Environmental Management</i> , 2014, 145, 1-8.	3.8	31

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19	Shotgun metagenomic analysis reveals the prevalence of antibiotic resistance genes and mobile genetic elements in full scale hospital wastewater treatment plants. <i>Journal of Environmental Management</i> , 2021, 296, 113270.	3.8	29
20	Ameliorative photocatalytic dye degradation of hydrothermally synthesized bimetallic Ag-Sn hybrid nanocomposite treated upon domestic wastewater under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2022, 421, 126734.	6.5	29
21	Effect of biogenic silver nanocubes on matrix metalloproteinases 2 and 9 expressions in hyperglycemic skin injury and its impact in early wound healing in streptozotocin-induced diabetic mice. <i>Materials Science and Engineering C</i> , 2018, 91, 146-152.	3.8	28
22	Biofouling reduction in a MBR by the application of a lytic phage on a modified nanocomposite membrane. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1624-1638.	1.2	28
23	Performance evaluation of highly conductive graphene (RGO) and graphene/metal nanoparticle composites (RGO/Ni) coated on carbon cloth for supercapacitor applications. <i>RSC Advances</i> , 2015, 5, 92970-92979.	1.7	27
24	Effects of S-Allylcysteine on Biomarkers of the Polyol Pathway in Rats with Type 2 Diabetes. <i>Canadian Journal of Diabetes</i> , 2016, 40, 442-448.	0.4	26
25	Antibacterial and photocatalytic activities of 5-nitroindole capped bimetal nanoparticles against multidrug resistant bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110825.	2.5	25
26	Facile one-pot microwave assisted synthesis of rGO-CuS-ZnS hybrid nanocomposite cathode catalysts for microbial fuel cell application. <i>Chemosphere</i> , 2021, 278, 130426.	4.2	23
27	Computational Lock and Key and Dynamic Trajectory Analysis of Natural Biophors Against COVID-19 Spike Protein to Identify Effective Lead Molecules. <i>Molecular Biotechnology</i> , 2021, 63, 898-908.	1.3	21
28	Anti-pseudomonal and anti-endotoxic effects of surfactin-stabilized biogenic silver nanocubes ameliorated wound repair in streptozotocin-induced diabetic mice. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 488-499.	1.9	20
29	Non-toxic properties of TiO ₂ and STiO ₂ nanocomposite PES ultrafiltration membranes for application in membrane-based environmental biotechnology. <i>Ecotoxicology and Environmental Safety</i> , 2018, 158, 248-255.	2.9	18
30	Enhanced Photocatalytic Degradation of Synthetic Dyes and Industrial Dye Wastewater by Hydrothermally Synthesized Ga ₂ O ₃ -CuO-Co ₃ O ₄ Hybrid Nanocomposites Under Visible Light Irradiation. <i>Journal of Cluster Science</i> , 2018, 29, 235-250.	1.7	17
31	Enhanced cathode performance of Fe ₂ O ₃ , boron nitride-doped rGO nanosheets for microbial fuel cell applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1454-1468.	2.5	16
32	Fabrication of basil oil Nanoemulsion loaded gellan gum hydrogel—evaluation of its antibacterial and anti-biofilm potential. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 68, 103129.	1.4	15
33	Effect of silver incorporation on the photocatalytic degradation of Reactive Red 120 using ZnS nanoparticles under UV and solar light irradiation. <i>Environmental Research</i> , 2022, 209, 112819.	3.7	15
34	Hormones induce the metabolic growth and cytotoxin production of <i>Microcystis aeruginosa</i> under terpinolene stress. <i>Science of the Total Environment</i> , 2021, 769, 145083.	3.9	14
35	Self-healing functionalization of sulfonated hafnium oxide and copper oxide nanocomposite for effective biocidal control of multidrug-resistant bacteria. <i>New Journal of Chemistry</i> , 2021, 45, 9506-9517.	1.4	12
36	Enhanced Performance of Sulfonated GO in SPEEK Proton-Exchange Membrane for Microbial Fuel-Cell Application. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	12

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37	Auto-cleaning functionalization of the polyvinylidene fluoride membrane by the biocidal oxine/TiO ₂ nanocomposite for anti-biofouling properties. <i>New Journal of Chemistry</i> , 2020, 44, 807-816.	1.4	11
38	Esterification of valeric acid over PTA supported mesoporous Al-SBA-15 as efficient solid acid catalysts. <i>Journal of Porous Materials</i> , 2021, 28, 1907-1917.	1.3	10
39	Green phytoextracts as natural photosensitizers in LED-based photodynamic disinfection of multidrug-resistant bacteria in wastewater effluent. <i>Chemosphere</i> , 2022, 297, 134157.	4.2	10
40	Fabrication of a Novel Nanocomposite Ultrafiltration Membrane with Improved Antifouling Properties Using Functionalized HfO ₂ and Polyvinylidene Fluoride for Organic Foulant Mitigation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19272-19284.	1.8	9
41	Marine biome-derived secondary metabolites, a class of promising antineoplastic agents: A systematic review on their classification, mechanism of action and future perspectives. <i>Science of the Total Environment</i> , 2022, 836, 155445.	3.9	9
42	Growth characteristics of lytic cyanophages newly isolated from the Nakdong River, Korea. <i>Virus Research</i> , 2021, 306, 198600.	1.1	7
43	Impact of mycorrhizal soil fertility proteins and Arbuscular mycorrhizal application to combat drought stress in maize plants. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2021, 30, 906-917.	0.9	7
44	Terpinolene as an enhancer for ultrasonic disinfection of multi-drug-resistant bacteria in hospital wastewater. <i>Environmental Science and Pollution Research</i> , 2022, 29, 34500-34514.	2.7	7
45	Fabrication and application of novel high strength sulfonated PVDF ultrafiltration membrane for production of reclamation water. <i>Chemosphere</i> , 2022, 305, 135416.	4.2	7
46	Influence of Abiotic Factors on the Growth of Cyanobacteria Isolated from Nakdong River, South Korea 1. <i>Journal of Phycology</i> , 2021, 57, 874-885.	1.0	6
47	Effective Chemical Vapor Deposition and Characterization of N-Doped Graphene for High Electrochemical Performance. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3183-3191.	0.9	6
48	Increased hydrazine during partial nitrification process in upflow air-lift reactor fed with supernatant of anaerobic digester effluent. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1235-1240.	1.2	5
49	Antibacterial and Adsorption Properties of Sulfonated GO-PVDF Nanocomposite Ultrafiltration Membranes for Environmental Applications. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	5
50	An enhanced electrochemical energy storage performance based on porous activated carbon and hard carbon derived from natural maple leaf. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3487-3497.	1.1	5
51	Nanocomposite membrane integrated phage enrichment process for the enhancement of high rate phage infection and productivity. <i>Biochemical Engineering Journal</i> , 2020, 163, 107740.	1.8	4
52	Electrochemical Synthesis of $\hat{1}^3$ -Cu ₅ Zn ₈ Bimetallic Nano Alloy for Efficient Degradation of Methyl Orange Dye and Antimicrobial Efficacy. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 0, , 1.	1.9	4
53	Targeting the Extracellular Polysaccharide Production (EPS) by Biofilm Forming Bacteria from Orthodontic Brackets and Wires Through Antiquorum Sensing Action of Bioactive Compounds from <i>Curcuma longa</i> and <i>Zingiber officinale</i> . <i>Biomedical and Pharmacology Journal</i> , 2020, 13, 1037-1045.	0.2	4
54	Genome characterization of the novel lytic genome sequence of the phage YUEEL01 of the Myoviridae family. <i>Virus Research</i> , 2022, 309, 198670.	1.1	3

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55	Ameliorative biodegradation of hazardous textile industrial wastewater dyes by potential microalgal sp.. Biomass Conversion and Biorefinery, 0, , 1.	2.9	3
56	Comparative growth characteristics and interspecific competitive interaction of two cyanobacteria, <i>Phormidium autumnale</i> and <i>Nostoc</i> sp.. Journal of Environmental Quality, 2022, 51, 78-89.	1.0	2
57	Serratiopeptidase: a statistical approach towards enhancement of fermentation and biomass product recovery. Biomass Conversion and Biorefinery, 0, , 1.	2.9	2
58	Design and Development of Lomustine Loaded Chitosan Nanoparticles for Efficient Brain Targeting. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2020, 18, 45-54.	0.4	1
59	Potential Antimicrobial Peptides Elucidation from the Marine Bacteria. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2021, 19, 131-149.	0.4	1
60	Identification and detection of biofuel precursor cumene (benzene, (1-methylethyl)-) by spectroscopic and chromatographic techniques. Biomass Conversion and Biorefinery, 0, , 1.	2.9	1
61	“Natural Products Chemistry and Drug Design - 2020” Cardiovascular and Hematological Agents in Medicinal Chemistry, 2020, 18, 3-4.	0.4	0
62	Fabrication and characterization of in vitro 2D skin model “ An attempt to establish scaffold for tissue engineering. Process Biochemistry, 2021, 109, 169-177.	1.8	0
63	“Natural Products Chemistry and Drug Design - 2020”- A Thematic Issue (Part - 3). Cardiovascular and Hematological Agents in Medicinal Chemistry, 2021, 19, 100-100.	0.4	0
64	“Natural Products Chemistry and Drug Design - 2020” (Part - II). Cardiovascular and Hematological Agents in Medicinal Chemistry, 2020, 18, 78-78.	0.4	0
65	Stomach-affecting intestinal parasites as a precursor model of <i>Pheretima posthuma</i> treated with anthelmintic drug from <i>Dodonaea viscosa</i> Linn.. Green Processing and Synthesis, 2022, 11, 492-502.	1.3	0
66	Histomorphological Evaluation of Non-Neoplastic Lesions of Uterine Cervix and a Correlation of the Lesion with the Clinical Factors. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2022, 20, .	0.4	0