## Rajesh Pandiyan

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Ameliorative photocatalytic dye degradation of hydrothermally synthesized bimetallic Ag-Sn hybrid nanocomposite treated upon domestic wastewater under visible light irradiation. Journal of Hazardous Materials, 2022, 421, 126734.	12.4	29
2	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.	2.0	2
3	Synthesis and application of CdS nanorods for LED-based photocatalytic degradation of tetracycline antibiotic. Chemosphere, 2022, 291, 132870.	8.2	47
4	Genome characterization of the novel lytic genome sequence of the phage YUEEL01 of the Myoviridae family. Virus Research, 2022, 309, 198670.	2.2	3
5	Terpinolene as an enhancer for ultrasonic disinfection of multi-drug-resistant bacteria in hospital wastewater. Environmental Science and Pollution Research, 2022, 29, 34500-34514.	5.3	7
6	Fabrication of basil oil Nanoemulsion loaded gellan gum hydrogel—evaluation of its antibacterial and anti-biofilm potential. Journal of Drug Delivery Science and Technology, 2022, 68, 103129.	3.0	15
7	Effect of silver incorporation on the photocatalytic degradation of Reactive Red 120 using ZnS nanoparticles under UV and solar light irradiation. Environmental Research, 2022, 209, 112819.	7.5	15
8	Green phytoextracts as natural photosensitizers in LED-based photodynamic disinfection of multidrug-resistant bacteria in wastewater effluent. Chemosphere, 2022, 297, 134157.	8.2	10
9	Fate of antibiotic resistant genes in wastewater environments and treatment strategies - A review. Chemosphere, 2022, 298, 134671.	8.2	47
10	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.	3.4	0
11	Marine biome-derived secondary metabolites, a class of promising antineoplastic agents: A systematic review on their classification, mechanism of action and future perspectives. Science of the Total Environment, 2022, 836, 155445.	8.0	9
12	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, .	1.0	0
13	Fabrication and application of novel high strength sulfonated PVDF ultrafiltration membrane for production of reclamation water. Chemosphere, 2022, 305, 135416.	8.2	7
14	Self-healing functionalization of sulfonated hafnium oxide and copper oxide nanocomposite for effective biocidal control of multidrug-resistant bacteria. New Journal of Chemistry, 2021, 45, 9506-9517.	2.8	12
15	Enhanced Performance of Sulfonated GO in SPEEK Proton-Exchange Membrane for Microbial Fuel-Cell Application. Journal of Environmental Engineering, ASCE, 2021, 147, .	1.4	12
16	Influence of Abiotic Factors on the Growth of Cyanobacteria Isolated from Nakdong River, South Korea 1. Journal of Phycology, 2021, 57, 874-885.	2.3	6
17	Hormones induce the metabolic growth and cytotoxin production of Microcystis aeruginosa under terpinolene stress. Science of the Total Environment, 2021, 769, 145083.	8.0	14
18	Computational Lock and Key and Dynamic Trajectory Analysis of Natural Biophors Against COVID-19 Spike Protein to Identify Effective Lead Molecules. Molecular Biotechnology, 2021, 63, 898-908.	2.4	21

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19	Esterification of valeric acid over PTA supported mesoporous Al-SBA-15 as efficient solid acid catalysts. Journal of Porous Materials, 2021, 28, 1907-1917.	2.6	10
20	Pyrolysis: An effective technique for degradation of COVID-19 medical wastes. Chemosphere, 2021, 275, 130092.	8.2	134
21	Facile one-pot microwave assisted synthesis of rGO-CuS-ZnS hybrid nanocomposite cathode catalysts for microbial fuel cell application. Chemosphere, 2021, 278, 130426.	8.2	23
22	Fabrication and characterization of in vitro 2D skin model – An attempt to establish scaffold for tissue engineering. Process Biochemistry, 2021, 109, 169-177.	3.7	0
23	Shotgun metagenomic analysis reveals the prevalence of antibiotic resistance genes and mobile genetic elements in full scale hospital wastewater treatment plants. Journal of Environmental Management, 2021, 296, 113270.	7.8	29
24	Antibacterial and Adsorption Properties of Sulfonated GO-PVDF Nanocomposite Ultrafiltration Membranes for Environmental Applications. Journal of Environmental Engineering, ASCE, 2021, 147, .	1.4	5
25	An enhanced electrochemical energy storage performance based on porous activated carbon and hard carbon derived from natural maple leaf. Journal of Materials Science: Materials in Electronics, 2021, 32, 3487-3497.	2.2	5
26	Potential Antimicrobial Peptides Elucidation from the Marine Bacteria. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2021, 19, 131-149.	1.0	1
27	Growth characteristics of lytic cyanophages newly isolated from the Nakdong River, Korea. Virus Research, 2021, 306, 198600.	2.2	7
28	Effective Chemical Vapor Deposition and Characterization of N-Doped Graphene for High Electrochemical Performance. Journal of Nanoscience and Nanotechnology, 2021, 21, 3183-3191.	0.9	6
29	"Natural Products Chemistry and Drug Design - 2020â€⊷ A Thematic Issue (Part - 3). Cardiovascular and Hematological Agents in Medicinal Chemistry, 2021, 19, 100-100.	1.0	Ο
30	Impact of mycorrhizal soil fertility proteins and Arbuscular mycorrhizal application to combat drought stress in maize plants. Journal of Plant Biochemistry and Biotechnology, 2021, 30, 906-917.	1.7	7
31	Enhanced antifouling performance of PVDF ultrafiltration membrane by blending zinc oxide with support of graphene oxide nanoparticle. Chemosphere, 2020, 241, 125068.	8.2	77
32	Auto-cleaning functionalization of the polyvinylidene fluoride membrane by the biocidal oxine/TiO2 nanocomposite for anti-biofouling properties. New Journal of Chemistry, 2020, 44, 807-816.	2.8	11
33	Fabrication of a Novel Nanocomposite Ultrafiltration Membrane with Improved Antifouling Properties Using Functionalized HfO <sub>2</sub> and Polyvinylidene Fluoride for Organic Foulant Mitigation. Industrial & Engineering Chemistry Research, 2020, 59, 19272-19284.	3.7	9
34	Nanocomposite membrane integrated phage enrichment process for the enhancement of high rate phage infection and productivity. Biochemical Engineering Journal, 2020, 163, 107740.	3.6	4
35	"Natural Products Chemistry and Drug Design - 2020― Cardiovascular and Hematological Agents in Medicinal Chemistry, 2020, 18, 3-4.	1.0	0
36	Antibacterial and photocatalytic activities of 5-nitroindole capped bimetal nanoparticles against multidrug resistant bacteria. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110825.	5.0	25

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37	Enhanced cathode performance of Fe <sub>2</sub> O <sub>3</sub> , boron nitride-doped rGO nanosheets for microbial fuel cell applications. Sustainable Energy and Fuels, 2020, 4, 1454-1468.	4.9	16
38	Targeting the Extracellular Polysaccharide Production (EPS) by Biofilm Forming Bacteria from Orthodontic Brackets and Wires Through Antiquorum Sensing Action of Bioactive Compounds from Curcuma longa and Zingiber officinale. Biomedical and Pharmacology Journal, 2020, 13, 1037-1045.	0.5	4
39	Design and Development of Lomustine Loaded Chitosan Nanoparticles for Efficient Brain Targeting. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2020, 18, 45-54.	1.0	1
40	"Natural Products Chemistry and Drug Design - 2020―(Part - II). Cardiovascular and Hematological Agents in Medicinal Chemistry, 2020, 18, 78-78.	1.0	0
41	Characterization of Trichoderma asperellum RM-28 for its sodic/saline-alkali tolerance and plant growth promoting activities to alleviate toxicity of red mud. Science of the Total Environment, 2019, 662, 462-469.	8.0	41
42	Fabrication and characterization of anti-fouling and non-toxic polyvinylidene fluoride -Sulphonated carbon nanotube ultrafiltration membranes for membrane bioreactors applications. Chemical Engineering Research and Design, 2019, 142, 176-188.	5.6	42
43	Antibacterial and photocatalytic activity of hydrothermally synthesized SnO2 doped GO and CNT under visible light irradiation. Journal of Photochemistry and Photobiology B: Biology, 2019, 191, 18-25.	3.8	45
44	Improved visible light photocatalytic activity of rGO–Fe <sub>3</sub> O <sub>4</sub> –NiO hybrid nanocomposites synthesized by <i>in situ</i> facile method for industrial wastewater treatment applications. New Journal of Chemistry, 2018, 42, 4372-4383.	2.8	49
45	Enhanced Photocatalytic Degradation of Synthetic Dyes and Industrial Dye Wastewater by Hydrothermally Synthesized G–CuO–Co3O4 Hybrid Nanocomposites Under Visible Light Irradiation. Journal of Cluster Science, 2018, 29, 235-250.	3.3	17
46	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. Materials Science and Engineering C, 2018, 91, 146-152.	7.3	28
47	Non-toxic properties of TiO2 and STiO2 nanocomposite PES ultrafiltration membranes for application in membrane-based environmental biotechnology. Ecotoxicology and Environmental Safety, 2018, 158, 248-255.	6.0	18
48	Anti-pseudomonal and anti-endotoxic effects of surfactin-stabilized biogenic silver nanocubes ameliorated wound repair in streptozotocin-induced diabetic mice. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 488-499.	2.8	20
49	Fabrication and separation performance of polyethersulfone/sulfonated TiO2 (PES–STiO2) ultrafiltration membranes for fouling mitigation. Journal of Industrial and Engineering Chemistry, 2018, 67, 199-209.	5.8	49
50	Biofouling reduction in a MBR by the application of a lytic phage on a modified nanocomposite membrane. Environmental Science: Water Research and Technology, 2018, 4, 1624-1638.	2.4	28
51	Effectiveness of piggery waste treatment using microbial fuel cells coupled with elutriated-phased acid fermentation. Bioresource Technology, 2017, 244, 650-657.	9.6	40
52	Application of sulfonic acid group functionalized graphene oxide to improve hydrophilicity, permeability, and antifouling of PVDF nanocomposite ultrafiltration membranes. Journal of Membrane Science, 2017, 525, 210-219.	8.2	349
53	Effects of S-Allylcysteine on Biomarkers of the Polyol Pathway in Rats with Type 2 Diabetes. Canadian Journal of Diabetes, 2016, 40, 442-448.	0.8	26
54	Nanocomposite membranes based on sulfonated polystyrene ethylene butylene polystyrene (SSEBS) and sulfonated SiO 2 for microbial fuel cell application. Chemical Engineering Journal, 2016, 289, 442-451.	12.7	77

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55	Constructed wetlands as sustainable ecotechnologies in decentralization practices: a review. Environmental Science and Pollution Research, 2016, 23, 180-197.	5.3	95
56	Ameliorative potential of gingerol: Promising modulation of inflammatory factors and lipid marker enzymes expressions in HFD induced obesity in rats. Molecular and Cellular Endocrinology, 2016, 419, 139-147.	3.2	85
57	Effectiveness of Domestic Wastewater Treatment Using a Bio-Hedge Water Hyacinth Wetland System. Water (Switzerland), 2015, 7, 329-347.	2.7	69
58	Performance evaluation of highly conductive graphene (RGO <sub>Hl–AcOH</sub> ) and graphene/metal nanoparticle composites (RGO/Ni) coated on carbon cloth for supercapacitor applications. RSC Advances, 2015, 5, 92970-92979.	3.6	27
59	Performance of high-rate constructed phytoremediation process with attached growth for domestic wastewater treatment: Effect of high TDS and Cu. Journal of Environmental Management, 2014, 145, 1-8.	7.8	31
60	Increased hydrazine during partial nitritation process in upflow air-lift reactor fed with supernatant of anaerobic digester effluent. Korean Journal of Chemical Engineering, 2013, 30, 1235-1240.	2.7	5
61	Structural and near-infra red luminescence properties of Nd-doped TiO2 films deposited by RF sputtering. Journal of Materials Chemistry, 2012, 22, 22424.	6.7	55
62	Surface modification of sol gel TiO2 surface with sputtered metallic silver for Sun light photocatalytic activity: Initial studies. Solar Energy Materials and Solar Cells, 2012, 101, 241-248.	6.2	34
63	Electrochemical Synthesis of γ-Cu5Zn8 Bimetallic Nano Alloy for Efficient Degradation of Methyl Orange Dye and Antimicrobial Efficacy. Journal of Inorganic and Organometallic Polymers and Materials, 0, , 1.	3.7	4
64	Identification and detection of biofuel precursor cumene (benzene, (1-methylethyl)-) by spectroscopic and chromatographic techniques. Biomass Conversion and Biorefinery, 0, , 1.	4.6	1
65	Serratiopeptidase: a statistical approach towards enhancement of fermentation and biomass product recovery. Biomass Conversion and Biorefinery, 0, , 1.	4.6	2
66	Ameliorative biodegradation of hazardous textile industrial wastewater dyes by potential microalgal sp Biomass Conversion and Biorefinery, 0, , 1.	4.6	3