

Palanivel Sathishkumar

List of Publications by Year in descending order

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68
papers

3,219
citations

136885

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155592

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all docs

68
docs citations

68
times ranked

3968
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence, interactive effects and ecological risk of diclofenac in environmental compartments and biota - a review. <i>Science of the Total Environment</i> , 2020, 698, 134057.	3.9	249
2	Utilization of agro-industrial waste <i>Jatropha curcas</i> pods as an activated carbon for the adsorption of reactive dye Remazol Brilliant Blue R (RBBR). <i>Journal of Cleaner Production</i> , 2012, 22, 67-75.	4.6	183
3	Optimization of Orange G dye adsorption by activated carbon of <i>Thespesia populnea</i> pods using response surface methodology. <i>Journal of Hazardous Materials</i> , 2011, 186, 827-834.	6.5	182
4	Recent insights into the extraction, characterization, and bioactivities of chitin and chitosan from insects. <i>Trends in Food Science and Technology</i> , 2020, 105, 17-42.	7.8	170
5	Laccase immobilization on cellulose nanofiber: The catalytic efficiency and recyclic application for simulated dye effluent treatment. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 100, 111-120.	1.8	140
6	Anti-acne, anti-dandruff and anti-breast cancer efficacy of green synthesised silver nanoparticles using <i>Coriandrum sativum</i> leaf extract. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 163, 69-76.	1.7	115
7	Heavy metal pollution in immobile and mobile components of lentic ecosystems—a review. <i>Environmental Science and Pollution Research</i> , 2018, 25, 4134-4148.	2.7	95
8	Flavonoids mediated “Green” nanomaterials: A novel nanomedicine system to treat various diseases “ Current trends and future perspective. <i>Materials Letters</i> , 2018, 210, 26-30.	1.3	91
9	Green and eco-friendly approaches for the extraction of chitin and chitosan: A review. <i>Carbohydrate Polymers</i> , 2022, 287, 119349.	5.1	88
10	Zinc oxide-quercetin nanocomposite as a smart nano-drug delivery system: Molecular-level interaction studies. <i>Applied Surface Science</i> , 2021, 536, 147741.	3.1	76
11	Construction of metal-organic framework-derived CeO ₂ /C integrated MoS ₂ hybrid for high-performance asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2020, 353, 136502.	2.6	75
12	Copper oxide and carbon nano-fragments modified glassy carbon electrode as selective electrochemical sensor for simultaneous determination of catechol and hydroquinone in real-life water samples. <i>Journal of Electroanalytical Chemistry</i> , 2018, 815, 68-75.	1.9	71
13	Electrospun nylon 6,6 membrane as a reusable nano-adsorbent for bisphenol A removal: Adsorption performance and mechanism. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 591-602.	5.0	70
14	Laccase-poly(lactic-co-glycolic acid) (PLGA) nanofiber: Highly stable, reusable, and efficacious for the transformation of diclofenac. <i>Enzyme and Microbial Technology</i> , 2012, 51, 113-118.	1.6	69
15	Rapid removal of chromium from aqueous solution using novel prawn shell activated carbon. <i>Chemical Engineering Journal</i> , 2012, 185-186, 178-186.	6.6	64
16	Distribution, toxicity, interactive effects, and detection of ochratoxin and deoxynivalenol in food: A review. <i>Food Chemistry</i> , 2022, 378, 131978.	4.2	63
17	Modified phyto-waste <i>Terminalia catappa</i> fruit shells: a reusable adsorbent for the removal of micropollutant diclofenac. <i>RSC Advances</i> , 2015, 5, 30950-30962.	1.7	61
18	Rapid biosynthesis of <i>Bauhinia variegata</i> flower extract-mediated silver nanoparticles: an effective antioxidant scavenger and α -amylase inhibitor. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1488-1494.	1.9	59

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19	Formation of Na-Doped Carbon-Coated ZnO/ZnCo ₂ O ₄ /CuCo ₂ O ₄ Derived from a Polymetallic Metal-Organic Framework: Toward High-Rate and Long-Cycle-Life Lithium Storage. <i>Small</i> , 2017, 13, 1702150.	5.2	58
20	Metabolites characterisation of laccase mediated Reactive Black 5 biodegradation by fast growing ascomycete fungus <i>Trichoderma atroviride</i> F03. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 274-282.	1.9	57
21	Phyto-synthesis of silver nanoparticles using <i>Alternanthera tenella</i> leaf extract: an effective inhibitor for the migration of human breast adenocarcinoma (MCF-7) cells. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 651-659.	1.7	54
22	Mesoporous MnO/C-N Nanostructures Derived from a Metal-Organic Framework as High-Performance Anode for Lithium-Ion Battery. <i>Inorganic Chemistry</i> , 2017, 56, 9966-9972.	1.9	52
23	Synthesis of flexirubin-mediated silver nanoparticles using <i>Chryseobacterium artocarpi</i> CECT 8497 and investigation of its anticancer activity. <i>Materials Science and Engineering C</i> , 2016, 59, 228-234.	3.8	50
24	A reusable electrospun PVDF-PVP-MnO ₂ nanocomposite membrane for bisphenol A removal from drinking water. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5801-5811.	3.3	50
25	Persistence, toxicological effect and ecological issues of endosulfan - A review. <i>Journal of Hazardous Materials</i> , 2021, 416, 125779.	6.5	50
26	Trends in the extraction, purification, characterisation and biological activities of polysaccharides from tropical and sub-tropical fruits - A comprehensive review. <i>Carbohydrate Polymers</i> , 2020, 238, 116185.	5.1	48
27	Production of laccase from <i>Pleurotus florida</i> using agro-wastes and efficient decolorization of Reactive blue 198. <i>Journal of Basic Microbiology</i> , 2010, 50, 360-367.	1.8	45
28	Rapid bioremediation of Alizarin Red S and Quinizarine Green SS dyes using <i>Trichoderma lixii</i> F21 mediated by biosorption and enzymatic processes. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 85-97.	1.7	45
29	Fabrication, characterization and application of laccase-nylon 6,6/Fe ³⁺ composite nanofibrous membrane for 3,3'-dimethoxybenzidine detoxification. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 191-200.	1.7	40
30	Production of laccase from <i>Pleurotus florida</i> NCIM 1243 using Plackett-Burman Design and Response Surface Methodology. <i>Journal of Basic Microbiology</i> , 2010, 50, 325-335.	1.8	36
31	An efficient multidoped Cu _{0.39} Zn _{0.14} Co _{2.47} O ₄ -ZnO electrode attached on reduced graphene oxide and copper foam as superior lithium-ion battery anodes. <i>Chemical Engineering Journal</i> , 2018, 336, 510-517.	6.6	36
32	Reduction of hexavalent chromium using <i>Aerva lanata</i> L.: Elucidation of reduction mechanism and identification of active principles. <i>Journal of Hazardous Materials</i> , 2014, 272, 89-95.	6.5	33
33	Understanding the surface functionalization of myricetin-mediated gold nanoparticles: Experimental and theoretical approaches. <i>Applied Surface Science</i> , 2019, 493, 634-644.	3.1	33
34	A sensitive, selective and rapid determination of lead(II) ions in real-life samples using an electrochemically reduced graphene oxide-graphite reinforced carbon electrode. <i>Talanta</i> , 2015, 144, 969-976.	2.9	32
35	Hazardous impact of diclofenac on mammalian system: Mitigation strategy through green remediation approach. <i>Journal of Hazardous Materials</i> , 2021, 419, 126135.	6.5	32
36	Microplastic contamination in the Skipjack Tuna (<i>Euthynnus affinis</i>) collected from Southern Coast of Java, Indonesia. <i>Chemosphere</i> , 2021, 276, 130185.	4.2	30

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37	Bioremediation of micropollutants using living and non-living algae - Current perspectives and challenges. <i>Environmental Pollution</i> , 2022, 292, 118474.	3.7	30
38	Detoxification of malachite green by <i>Pleurotus florida</i> laccase produced under solid-state fermentation using agricultural residues. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 139-147.	1.2	28
39	Decolorization of malachite green by laccase: Optimization by response surface methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 776-782.	2.7	27
40	Modified oil palm industry solid waste as a potential adsorbent for lead removal. <i>Environmental Chemistry and Ecotoxicology</i> , 2021, 3, 1-7.	4.6	27
41	Efficiency of <i>Pleurotus florida</i> Laccase on Decolorization and Detoxification of the Reactive Dye Remazol Brilliant Blue R (RBBR) under Optimized Conditions. <i>Clean - Soil, Air, Water</i> , 2013, 41, 665-672.	0.7	26
42	Titanium lanthanum three oxides decorated magnetic graphene oxide for adsorption of lead ions from aqueous media. <i>Environmental Research</i> , 2022, 214, 113831.	3.7	26
43	Laccase mediated diclofenac transformation and cytotoxicity assessment on mouse fibroblast 3T3-L1 preadipocytes. <i>RSC Advances</i> , 2014, 4, 11689.	1.7	23
44	A new electro-generated o-dianisidine derivative stabilized MWCNT-modified GCE for low potential gallic acid detection. <i>RSC Advances</i> , 2015, 5, 45996-46006.	1.7	23
45	3D-Flower-Like Copper Sulfide Nanoflake-Decorated Carbon Nanofragments-Modified Glassy Carbon Electrodes for Simultaneous Electrocatalytic Sensing of Co-existing Hydroquinone and Catechol. <i>Sensors</i> , 2019, 19, 2289.	2.1	23
46	Biodegradation Pathway of Acid Red 27 by White Rot Fungus <i>Armillaria</i> sp. F022 and Phytotoxicity Evaluation. <i>Clean - Soil, Air, Water</i> , 2016, 44, 239-246.	0.7	21
47	PVDF/ErGO/GRC electrode: A single setup electrochemical system for separation, pre-concentration and detection of lead ions in complex aqueous samples. <i>Talanta</i> , 2016, 148, 101-107.	2.9	20
48	Plant extract as environmental-friendly green catalyst for the reduction of hexavalent chromium in tannery effluent. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1376-1383.	1.2	20
49	Bioenergy production and metallic iron (Fe) conversion from <i>Botryococcus</i> sp. cultivated in domestic wastewater: Algal biorefinery concept. <i>Energy Conversion and Management</i> , 2019, 196, 1326-1334.	4.4	20
50	Insight into the Expanded Mislinked Porphyrins with High Second Order Nonlinear Optical Response. <i>Journal of Physical Chemistry A</i> , 2020, 124, 955-965.	1.1	18
51	Photocatalytic activity and reusability of ZnO layer synthesised by electrolysis, hydrogen peroxide and heat treatment. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1875-1882.	1.2	17
52	Fabrication of a composite modified glassy carbon electrode: a highly selective, sensitive and rapid electrochemical sensor for silver ion detection in river water samples. <i>Analytical Methods</i> , 2016, 8, 5712-5721.	1.3	16
53	The abundance of endocrine-disrupting chemicals (EDCs) in downstream of the Bengawan Solo and Brantas rivers located in Indonesia. <i>Chemosphere</i> , 2022, 297, 134151.	4.2	16
54	Aqueous state laccase thermostabilization using carbohydrate polymers: Effect on toxicity assessment of azo dye. <i>Carbohydrate Polymers</i> , 2011, 85, 341-348.	5.1	15

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55	Determination of Paraquat Dichloride from Water Samples Using Differential Pulse Cathodic Stripping Voltammetry. Russian Journal of Electrochemistry, 2018, 54, 1155-1163.	0.3	15
56	The potential role of medicinal mushrooms as prebiotics in aquaculture: A review. Reviews in Aquaculture, 2022, 14, 1300-1332.	4.6	15
57	Adverse environmental effects of disposable face masks due to the excess usage. Environmental Pollution, 2022, 308, 119674.	3.7	13
58	Role of nanocatalyst in the treatment of organochlorine compounds - A review. Chemosphere, 2021, 268, 128873.	4.2	11
59	Curcuminoid Extraction from Turmeric (<i>Curcuma Longa</i> L.): Efficacy of Bromine-Modified Curcuminoids Against Food Spoilage Flora. Journal of Food Biochemistry, 2015, 39, 325-333.	1.2	10
60	Tuning the first hyperpolarizability of hexaphyrins with different connections of mislinked pyrrole units: a theoretical study. Physical Chemistry Chemical Physics, 2021, 23, 8489-8499.	1.3	10
61	Exploration of fast growing <i>Botryococcus sudeticus</i> for upstream and downstream process in sustainable biofuels production. Journal of Cleaner Production, 2015, 92, 162-167.	4.6	9
62	Phycocerythrin: a pink pigment from red sources (rhodophyta) for a greener biorefining approach to food applications. Critical Reviews in Food Science and Nutrition, 2023, 63, 10928-10946.	5.4	9
63	Alteration of paraoxonase, arylesterase and lactonase activities in people around fluoride endemic area of Tamil Nadu, India. Clinica Chimica Acta, 2017, 471, 206-215.	0.5	8
64	Determination of para-arsanilic acid with improved diazotization reaction using differential pulse cathodic stripping voltammetry in aqueous system. Environmental Technology (United Kingdom), 2017, 38, 107-114.	0.7	7
65	Nifedipine degradation by an electro-oxidation process using titanium-based RuO ₂ -IrO ₂ -TiO ₂ mixed metal oxide electrode. Chemical Papers, 2021, 75, 681-690.	1.0	6
66	Curcumin-loaded electrospun poly(ϵ -caprolactone) nanofibrous membrane: An efficient and biocompatible wound-dressing material. Materials Letters, 2022, 315, 131910.	1.3	5
67	Fungal Laccase Mediated Bioremediation of Xenobiotic Compounds. , 2019, , 135-157.		2
68	Scaling up of food waste valorization market outlooks: key concerns. , 2020, , 401-416.		1