

Thavamani Palanisami

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

7,078
citations

57631

44
h-index

60497

81
g-index

90
all docs

90
docs citations

90
times ranked

7791
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel resources recovery from anaerobic digestates: Current trends and future perspectives. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1915-1999.	6.6	24
2	A critical review on the role of abiotic factors on the transformation, environmental identity and toxicity of engineered nanomaterials in aquatic environment. <i>Environmental Pollution</i> , 2022, 296, 118726.	3.7	22
3	Polymer prioritization framework: A novel multi-criteria framework for source mapping and characterizing the environmental risk of plastic polymers. <i>Journal of Hazardous Materials</i> , 2022, 429, 128330.	6.5	6
4	Distribution, toxicity, interactive effects, and detection of ochratoxin and deoxynivalenol in food: A review. <i>Food Chemistry</i> , 2022, 378, 131978.	4.2	63
5	Kinetic and isotherm insights of Diclofenac removal by sludge derived hydrochar. <i>Scientific Reports</i> , 2022, 12, 2184.	1.6	16
6	Understanding the pathogenesis of occupational coal and silica dust-associated lung disease. <i>European Respiratory Review</i> , 2022, 31, 210250.	3.0	25
7	Estimation of the mass of microplastics ingested – A pivotal first step towards human health risk assessment. <i>Journal of Hazardous Materials</i> , 2021, 404, 124004.	6.5	333
8	COVID pollution: impact of COVID-19 pandemic on global plastic waste footprint. <i>Heliyon</i> , 2021, 7, e06343.	1.4	360
9	Exploring the Composition and Functions of Plastic Microbiome Using Whole-Genome Sequencing. <i>Environmental Science & Technology</i> , 2021, 55, 4899-4913.	4.6	71
10	A Review on the Synthesis and Applications of Nanoporous Carbons for the Removal of Complex Chemical Contaminants. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1232-1257.	2.0	67
11	Fingerprinting Plastic-Associated Inorganic and Organic Matter on Plastic Aged in the Marine Environment for a Decade. <i>Environmental Science & Technology</i> , 2021, 55, 7407-7417.	4.6	25
12	Biofilms Enhance the Adsorption of Toxic Contaminants on Plastic Microfibers under Environmentally Relevant Conditions. <i>Environmental Science & Technology</i> , 2021, 55, 8877-8887.	4.6	108
13	Understanding the Fundamental Basis for Biofilm Formation on Plastic Surfaces: Role of Conditioning Films. <i>Frontiers in Microbiology</i> , 2021, 12, 687118.	1.5	62
14	Indoor Particulate Matter in Urban Households: Sources, Pathways, Characteristics, Health Effects, and Exposure Mitigation. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 11055.	1.2	29
15	Analysis of polycyclic aromatic hydrocarbons (PAHs) and their polar derivatives in soils of an industrial heritage city of Australia. <i>Science of the Total Environment</i> , 2020, 699, 134303.	3.9	46
16	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
17	Interaction of chemical contaminants with microplastics: Principles and perspectives. <i>Science of the Total Environment</i> , 2020, 706, 135978.	3.9	279
18	Speciation and source apportionment of polycyclic aromatic compounds (PACs) in sediments of the largest salt water lake of Australia. <i>Chemosphere</i> , 2020, 246, 125779.	4.2	31

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19	Quantitative biomonitoring of polycyclic aromatic compounds (PACs) using the Sydney rock oyster (<i>Saccostrea glomerata</i>). <i>Science of the Total Environment</i> , 2020, 742, 140497.	3.9	3
20	Benchmarking Bioplastics: A Natural Step Towards a Sustainable Future. <i>Journal of Polymers and the Environment</i> , 2020, 28, 3055-3075.	2.4	56
21	Bioavailability of polycyclic aromatic compounds (PACs) to the Sydney rock oyster (<i>Saccostrea</i>) Tj ETQq1 1 0.784314 rgBT /Overlock Total Environment, 2020, 736, 139574.	3.9	10
22	Baseline analysis of metal(loid)s on microplastics collected from the Australian shoreline using citizen science. <i>Marine Pollution Bulletin</i> , 2020, 152, 110914.	2.3	42
23	Baseline survey of micro and mesoplastics in the gastro-intestinal tract of commercial fish from Southeast coast of the Bay of Bengal. <i>Marine Pollution Bulletin</i> , 2020, 153, 110974.	2.3	52
24	Improved methodology to determine the fate and transport of microplastics in a secondary wastewater treatment plant. <i>Water Research</i> , 2020, 173, 115549.	5.3	156
25	Beyond the obvious: Environmental health implications of polar polycyclic aromatic hydrocarbons. <i>Environment International</i> , 2019, 123, 543-557.	4.8	245
26	Bioremediation of soil long-term contaminated with PAHs by algal-bacterial synergy of <i>Chlorella</i> sp. MM3 and <i>Rhodococcus wratislaviensis</i> strain 9 in slurry phase. <i>Science of the Total Environment</i> , 2019, 659, 724-731.	3.9	45
27	Challenges and complexities in remediation of uranium contaminated soils: A review. <i>Journal of Environmental Radioactivity</i> , 2018, 192, 592-603.	0.9	93
28	Trophic transfer of microplastics and mixed contaminants in the marine food web and implications for human health. <i>Environment International</i> , 2018, 115, 400-409.	4.8	843
29	Analysis of chromium status in the revegetated flora of a tannery waste site and microcosm studies using earthworm <i>E. fetida</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 5063-5070.	2.7	11
30	Transport and fate of microplastics in wastewater treatment plants: implications to environmental health. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 637-653.	3.9	110
31	A Comprehensive Analysis of Plastics and Microplastic Legislation Worldwide. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	90
32	Polycyclic Aromatic Hydrocarbons (PAHs) in inland aquatic ecosystems: Perils and remedies through biosensors and bioremediation. <i>Environmental Pollution</i> , 2018, 241, 212-233.	3.7	124
33	Assessment of chromium hyper-accumulative behaviour using biochemical analytical techniques of greenhouse cultivated <i>Sonchus asper</i> on tannery waste dump site soils. <i>Environmental Science and Pollution Research</i> , 2018, 25, 26992-26999.	2.7	5
34	<i>Quercus robur</i> acorn peel as a novel coagulating adsorbent for cationic dye removal from aquatic ecosystems. <i>Ecological Engineering</i> , 2017, 101, 3-8.	1.6	54
35	Evaluation of relative bioaccessibility leaching procedure for an assessment of lead bioavailability in mixed metal contaminated soils. <i>Environmental Technology and Innovation</i> , 2017, 7, 229-238.	3.0	6
36	Polycyclic aromatic hydrocarbons (PAHs) degradation potential, surfactant production, metal resistance and enzymatic activity of two novel cellulose-degrading bacteria isolated from koala faeces. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	14

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37	Microbes from mined sites: Harnessing their potential for reclamation of derelict mine sites. <i>Environmental Pollution</i> , 2017, 230, 495-505.	3.7	87
38	Remediation approaches for polycyclic aromatic hydrocarbons (PAHs) contaminated soils: Technological constraints, emerging trends and future directions. <i>Chemosphere</i> , 2017, 168, 944-968.	4.2	544
39	Microplastics in the Marine Environment: Current Status, Assessment Methodologies, Impacts and Solutions. <i>Journal of Pollution Effects & Control</i> , 2016, 04, .	0.1	22
40	Microbial diversity and hydrocarbon degrading gene capacity of a crude oil field soil as determined by metagenomics analysis. <i>Biotechnology Progress</i> , 2016, 32, 638-648.	1.3	61
41	Toxicity and bioaccumulation of iron in soil microalgae. <i>Journal of Applied Phycology</i> , 2016, 28, 2767-2776.	1.5	32
42	Pyrosequencing analysis of bacterial diversity in soils contaminated long-term with PAHs and heavy metals: Implications to bioremediation. <i>Journal of Hazardous Materials</i> , 2016, 317, 169-179.	6.5	118
43	Cultivation of <i>Chlorella</i> on brewery wastewater and nano-particle biosynthesis by its biomass. <i>Bioresource Technology</i> , 2016, 211, 698-703.	4.8	61
44	Isolation and characterization of polycyclic aromatic hydrocarbons (PAHs) degrading, pH tolerant, N-fixing and P-solubilizing novel bacteria from manufactured gas plant (MGP) site soils. <i>Environmental Technology and Innovation</i> , 2016, 6, 204-219.	3.0	29
45	Cation doped hydroxyapatite nanoparticles enhance strontium adsorption from aqueous system: A comparative study with and without calcination. <i>Applied Clay Science</i> , 2016, 134, 136-144.	2.6	25
46	Earthworm Comet Assay for Assessing the Risk of Weathered Petroleum Hydrocarbon Contaminated Soils: Need to Look Further than Target Contaminants. <i>Archives of Environmental Contamination and Toxicology</i> , 2016, 71, 561-571.	2.1	15
47	Stress responses and specific metal exclusion on mine soils based on germination and growth studies by Australian golden wattle. <i>Ecological Indicators</i> , 2016, 71, 113-122.	2.6	4
48	Polyaromatic hydrocarbon (PAH) degradation potential of a new acid tolerant, diazotrophic P-solubilizing and heavy metal resistant bacterium <i>Cupriavidus</i> sp. MTS-7 isolated from long-term mixed contaminated soil. <i>Chemosphere</i> , 2016, 162, 31-39.	4.2	47
49	Remediation of metalliferous mines, revegetation challenges and emerging prospects in semi-arid and arid conditions. <i>Environmental Science and Pollution Research</i> , 2016, 23, 20131-20150.	2.7	24
50	Bioaccessibility of barium from barite contaminated soils based on gastric phase <i>in vitro</i> data and plant uptake. <i>Chemosphere</i> , 2016, 144, 1421-1427.	4.2	19
51	Metal bioavailability to <i>Eisenia fetida</i> through copper mine dwelling animal and plant litter, a new challenge on contaminated environment remediation. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 208-216.	1.9	20
52	Abandoned metalliferous mines: ecological impacts and potential approaches for reclamation. <i>Reviews in Environmental Science and Biotechnology</i> , 2016, 15, 327-354.	3.9	94
53	Assessment of antioxidant activity, minerals, phenols and flavonoid contents of common plant/tree waste extracts. <i>Industrial Crops and Products</i> , 2016, 83, 630-634.	2.5	23
54	Bioaugmentation with Novel Microbial Formula vs. Natural Attenuation of a Long-Term Mixed Contaminated Soil – Treatability Studies in Solid- and Slurry-Phase Microcosms. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	32

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55	Potential of <i>Melaleuca diosmifolia</i> as a novel, non-conventional and low-cost coagulating adsorbent for removing both cationic and anionic dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 198-207.	2.9	27
56	Potential of <i>Melaleuca diosmifolia</i> leaf as a low-cost adsorbent for hexavalent chromium removal from contaminated water bodies. <i>Chemical Engineering Research and Design</i> , 2016, 100, 173-182.	2.7	73
57	Oak (<i>Quercus robur</i>) Acorn Peel as a Low-Cost Adsorbent for Hexavalent Chromium Removal from Aquatic Ecosystems and Industrial Effluents. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	31
58	Biodegradation of polycyclic aromatic hydrocarbons (PAHs) by novel bacterial consortia tolerant to diverse physical settings – Assessments in liquid- and slurry-phase systems. <i>International Biodeterioration and Biodegradation</i> , 2016, 108, 149-157.	1.9	88
59	Kinetics of PAH degradation by a new acid-metal-tolerant <i>Trabulsiella</i> isolated from the MGP site soil and identification of its potential to fix nitrogen and solubilize phosphorous. <i>Journal of Hazardous Materials</i> , 2016, 307, 99-107.	6.5	36
60	Agronomic and remedial benefits and risks of applying biochar to soil: Current knowledge and future research directions. <i>Environment International</i> , 2016, 87, 1-12.	4.8	277
61	Ex-Situ Remediation Technologies for Environmental Pollutants: A Critical Perspective. <i>Reviews of Environmental Contamination and Toxicology</i> , 2016, 236, 117-192.	0.7	54
62	In-Situ Remediation Approaches for the Management of Contaminated Sites: A Comprehensive Overview. <i>Reviews of Environmental Contamination and Toxicology</i> , 2016, 236, 1-115.	0.7	67
63	Multiwall carbon nanotubes increase the microbial community in crude oil contaminated fresh water sediments. <i>Science of the Total Environment</i> , 2016, 539, 370-380.	3.9	34
64	Speciation and bioavailability of lead in complementary medicines. <i>Science of the Total Environment</i> , 2016, 539, 304-312.	3.9	22
65	<i>Chlorococcum</i> sp. MM11 – a novel phyco-nanofactory for the synthesis of iron nanoparticles. <i>Journal of Applied Phycology</i> , 2015, 27, 1861-1869.	1.5	111
66	Evaluation of metal uptake factors of native trees colonizing an abandoned copper mine – a quest for phytostabilization. <i>Journal of Sustainable Mining</i> , 2015, 14, 115-123.	0.1	70
67	Synthesis and characterisation of 3-dimensional hydroxyapatite nanostructures using a thermoplastic polyurethane nanofiber sacrificial template. <i>RSC Advances</i> , 2015, 5, 97773-97780.	1.7	11
68	Influence of ageing on lead bioavailability in soils: a swine study. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8979-8988.	2.7	19
69	Multifarious activities of cellulose degrading bacteria from Koala (<i>Phascolarctos cinereus</i>) faeces. <i>Journal of Animal Science and Technology</i> , 2015, 57, 23.	0.8	12
70	Remediation trials for hydrocarbon-contaminated soils in arid environments: Evaluation of bioslurry and biopiling techniques. <i>International Biodeterioration and Biodegradation</i> , 2015, 101, 56-65.	1.9	103
71	Bioremediation potential of natural polyphenol rich green wastes: A review of current research and recommendations for future directions. <i>Environmental Technology and Innovation</i> , 2015, 4, 17-28.	3.0	66
72	Composition, source identification and ecological risk assessment of polycyclic aromatic hydrocarbons in surface sediments of the Subei Grand Canal, China. <i>Environmental Earth Sciences</i> , 2015, 74, 2669-2677.	1.3	13

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73	Evaluation of constraints in bioremediation of weathered hydrocarbon-contaminated arid soils through microcosm biopile study. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3597-3612.	1.8	20
74	Effect of ageing on benzo[a]pyrene extractability in contrasting soils. <i>Journal of Hazardous Materials</i> , 2015, 296, 175-184.	6.5	37
75	Risk based land management requires focus beyond the target contaminantsâ€”A case study involving weathered hydrocarbon contaminated soils. <i>Environmental Technology and Innovation</i> , 2015, 4, 98-109.	3.0	25
76	Using soil properties to predict in vivo bioavailability of lead in soils. <i>Chemosphere</i> , 2015, 138, 422-428.	4.2	27
77	Metal-tolerant PAH-degrading bacteria: development of suitable test medium and effect of cadmium and its availability on PAH biodegradation. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8957-8968.	2.7	30
78	Towards bioavailability-based soil criteria: past, present and future perspectives. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8779-8785.	2.7	26
79	Managing long-term polycyclic aromatic hydrocarbon contaminated soils: a risk-based approach. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8927-8941.	2.7	96
80	Recent advances in the synthesis of inorganic nano/microstructures using microbial biotemplates and their applications. <i>RSC Advances</i> , 2014, 4, 52156-52169.	1.7	79
81	Effects of ageing and soil properties on the oral bioavailability of benzo[a]pyrene using a swine model. <i>Environment International</i> , 2014, 70, 192-202.	4.8	67
82	Pathways of reductive degradation of crystal violet in wastewater using free-strain <i>Burkholderia vietnamiensis</i> C09V. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10339-10348.	2.7	19
83	Bioavailability of Barium to Plants and Invertebrates in Soils Contaminated by Barite. <i>Environmental Science & Technology</i> , 2013, 47, 4670-4676.	4.6	66
84	Bioremediation of high molecular weight polyaromatic hydrocarbons co-contaminated with metals in liquid and soil slurries by metal tolerant PAHs degrading bacterial consortium. <i>Biodegradation</i> , 2012, 23, 823-835.	1.5	90
85	Multivariate analysis of mixed contaminants (PAHs and heavy metals) at manufactured gas plant site soils. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 3875-3885.	1.3	74
86	Microbial activity and diversity in long-term mixed contaminated soils with respect to polyaromatic hydrocarbons and heavy metals. <i>Journal of Environmental Management</i> , 2012, 99, 10-17.	3.8	145
87	Finger printing of mixed contaminants from former manufactured gas plant (MGP) site soils: Implications to bioremediation. <i>Environment International</i> , 2011, 37, 184-189.	4.8	78
88	Nitrate removal efficiency of bacterial consortium (<i>Pseudomonas</i> sp. KW1 and <i>Bacillus</i> sp. YW4) in synthetic nitrate-rich water. <i>Journal of Hazardous Materials</i> , 2008, 157, 553-563.	6.5	52