Thavamani Palanisami

List of Publications by Year
in descending order

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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	Trophic transfer of microplastics and mixed contaminants in the marine food web and implications for human health. Environment International, 2018, 115, 400-409.	4.8	843
2	Remediation approaches for polycyclic aromatic hydrocarbons (PAHs) contaminated soils: Technological constraints, emerging trends and future directions. Chemosphere, 2017, 168, 944-968.	4.2	544
3	COVID pollution: impact of COVID-19 pandemic on global plastic waste footprint. Heliyon, 2021, 7, e06343.	1.4	360
4	Estimation of the mass of microplastics ingested â€“ A pivotal first step towards human health risk assessment. Journal of Hazardous Materials, 2021, 404, 124004.	6.5	333
5	Interaction of chemical contaminants with microplastics: Principles and perspectives. Science of the Total Environment, 2020, 706, 135978.	3.9	279
6	Agronomic and remedial benefits and risks of applying biochar to soil: Current knowledge and future research directions. Environment International, 2016, 87, 1-12.	4.8	277
7	Occurrence, interactive effects and ecological risk of diclofenac in environmental compartments and biota - a review. Science of the Total Environment, 2020, 698, 134057.	3.9	249
8	Beyond the obvious: Environmental health implications of polar polycyclic aromatic hydrocarbons. Environment International, 2019, 123, 543-557.	4.8	245
9	Improved methodology to determine the fate and transport of microplastics in a secondary wastewater treatment plant. Water Research, 2020, 173, 115549.	5.3	156
10	Microbial activity and diversity in long-term mixed contaminated soils with respect to polyaromatic hydrocarbons and heavy metals. Journal of Environmental Management, 2012, 99, 10-17.	3.8	145
11	Polycyclic Aromatic Hydrocarbons (PAHs) in inland aquatic ecosystems: Perils and remedies through biosensors and bioremediation. Environmental Pollution, 2018, 241, 212-233.	3.7	124
12	Pyrosequencing analysis of bacterial diversity in soils contaminated long-term with PAHs and heavy metals: Implications to bioremediation. Journal of Hazardous Materials, 2016, 317, 169-179.	6.5	118
13	Chlorococcum sp. MM11â€”a novel phyco-nanofactory for the synthesis of iron nanoparticles. Journal of Applied Phycology, 2015, 27, 1861-1869.	1.5	111
14	Transport and fate of microplastics in wastewater treatment plants: implications to environmental health. Reviews in Environmental Science and Biotechnology, 2018, 17, 637-653.	3.9	110
15	Biofilms Enhance the Adsorption of Toxic Contaminants on Plastic Microfibers under Environmentally Relevant Conditions. Environmental Science & Technology, 2021, 55, 8877-8887.	4.6	108
16	Remediation trials for hydrocarbon-contaminated soils in arid environments: Evaluation of bioslurry and biopiling techniques. International Biodeterioration and Biodegradation, 2015, 101, 56-65.	1.9	103
17	Managing long-term polycyclic aromatic hydrocarbon contaminated soils: a risk-based approach. Environmental Science and Pollution Research, 2015, 22, 8927-8941.	2.7	96
18	Abandoned metalliferous mines: ecological impacts and potential approaches for reclamation. Reviews in Environmental Science and Biotechnology, 2016, 15, 327-354.	3.9	94

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19	Challenges and complexities in remediation of uranium contaminated soils: A review. Journal of Environmental Radioactivity, 2018, 192, 592-603.	0.9	93
20	Bioremediation of high molecular weight polyaromatic hydrocarbons co-contaminated with metals in liquid and soil slurries by metal tolerant PAHs degrading bacterial consortium. Biodegradation, 2012, 23, 823-835.	1.5	90
21	A Comprehensive Analysis of Plastics and Microplastic Legislation Worldwide. Water, Air, and Soil Pollution, 2018, 229, 1.	1.1	90
22	Biodegradation of polycyclic aromatic hydrocarbons (PAHs) by novel bacterial consortia tolerant to diverse physical settings â€“ Assessments in liquid- and slurry-phase systems. International Biodeterioration and Biodegradation, 2016, 108, 149-157.	1.9	88
23	Microbes from mined sites: Harnessing their potential for reclamation of derelict mine sites. Environmental Pollution, 2017, 230, 495-505.	3.7	87
24	Recent advances in the synthesis of inorganic nano/microstructures using microbial biotemplates and their applications. RSC Advances, 2014, 4, 52156-52169.	1.7	79
25	Finger printing of mixed contaminants from former manufactured gas plant (MGP) site soils: Implications to bioremediation. Environment International, 2011, 37, 184-189.	4.8	78
26	Multivariate analysis of mixed contaminants (PAHs and heavy metals) at manufactured gas plant site soils. Environmental Monitoring and Assessment, 2012, 184, 3875-3885.	1.3	74
27	Potential of Melaleuca diosmifolia leaf as a low-cost adsorbent for hexavalent chromium removal from contaminated water bodies. Chemical Engineering Research and Design, 2016, 100, 173-182.	2.7	73
28	Exploring the Composition and Functions of Plastic Microbiome Using Whole-Genome Sequencing. Environmental Science & Technology, 2021, 55, 4899-4913.	4.6	71
29	Evaluation of metal uptake factors of native trees colonizing an abandoned copper mine â€“ a quest for phytostabilization. Journal of Sustainable Mining, 2015, 14, 115-123.	0.1	70
30	Effects of ageing and soil properties on the oral bioavailability of benzo[a]pyrene using a swine model. Environment International, 2014, 70, 192-202.	4.8	67
31	In-Situ Remediation Approaches for the Management of Contaminated Sites: A Comprehensive Overview. Reviews of Environmental Contamination and Toxicology, 2016, 236, 1-115.	0.7	67
32	A Review on the Synthesis and Applications of Nanoporous Carbons for the Removal of Complex Chemical Contaminants. Bulletin of the Chemical Society of Japan, 2021, 94, 1232-1257.	2.0	67
33	Bioavailability of Barium to Plants and Invertebrates in Soils Contaminated by Barite. Environmental Science & Technology, 2013, 47, 4670-4676.	4.6	66
34	Bioremediation potential of natural polyphenol rich green wastes: A review of current research and recommendations for future directions. Environmental Technology and Innovation, 2015, 4, 17-28.	3.0	66
35	Distribution, toxicity, interactive effects, and detection of ochratoxin and deoxynivalenol in food: A review. Food Chemistry, 2022, 378, 131978.	4.2	63
36	Understanding the Fundamental Basis for Biofilm Formation on Plastic Surfaces: Role of Conditioning Films. Frontiers in Microbiology, 2021, 12, 687118.	1.5	62

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37	Microbial diversity and hydrocarbon degrading gene capacity of a crude oil field soil as determined by metagenomics analysis. Biotechnology Progress, 2016, 32, 638-648.	1.3	61
38	Cultivation of Chlorella on brewery wastewater and nano-particle biosynthesis by its biomass. Bioresource Technology, 2016, 211, 698-703.	4.8	61
39	Benchmarking Bioplastics: A Natural Step Towards a Sustainable Future. Journal of Polymers and the Environment, 2020, 28, 3055-3075.	2.4	56
40	Ex-Situ Remediation Technologies for Environmental Pollutants: A Critical Perspective. Reviews of Environmental Contamination and Toxicology, 2016, 236, 117-192.	0.7	54
41	Quercus robur acorn peel as a novel coagulating adsorbent for cationic dye removal from aquatic ecosystems. Ecological Engineering, 2017, 101, 3-8.	1.6	54
42	Nitrate removal efficiency of bacterial consortium (Pseudomonas sp. KW1 and Bacillus sp. YW4) in synthetic nitrate-rich water. Journal of Hazardous Materials, 2008, 157, 553-563.	6.5	52
43	Baseline survey of micro and mesoplastics in the gastro-intestinal tract of commercial fish from Southeast coast of the Bay of Bengal. Marine Pollution Bulletin, 2020, 153, 110974.	2.3	52
44	Polyaromatic hydrocarbon (PAH) degradation potential of a new acid tolerant, diazotrophic P-solubilizing and heavy metal resistant bacterium Cupriavidus sp. MTS-7 isolated from long-term mixed contaminated soil. Chemosphere, 2016, 162, 31-39.	4.2	47
45	Analysis of polycyclic aromatic hydrocarbons (PAHs) and their polar derivatives in soils of an industrial heritage city of Australia. Science of the Total Environment, 2020, 699, 134303.	3.9	46
46	Bioremediation of soil long-term contaminated with PAHs by algalâ€“bacterial synergy of Chlorella sp. MM3 and Rhodococcus wratislaviensis strain 9 in slurry phase. Science of the Total Environment, 2019, 659, 724-731.	3.9	45
47	Baseline analysis of metal(loid)s on microplastics collected from the Australian shoreline using citizen science. Marine Pollution Bulletin, 2020, 152, 110914.	2.3	42
48	Effect of ageing on benzo[a]pyrene extractability in contrasting soils. Journal of Hazardous Materials, 2015, 296, 175-184.	6.5	37
49	Kinetics of PAH degradation by a new acid-metal-tolerant Trabulsiella isolated from the MGP site soil and identification of its potential to fix nitrogen and solubilize phosphorous. Journal of Hazardous Materials, 2016, 307, 99-107.	6.5	36
50	Multiwall carbon nanotubes increase the microbial community in crude oil contaminated fresh water sediments. Science of the Total Environment, 2016, 539, 370-380.	3.9	34
51	Toxicity and bioaccumulation of iron in soil microalgae. Journal of Applied Phycology, 2016, 28, 2767-2776.	1.5	32
52	Bioaugmentation with Novel Microbial Formula vs. Natural Attenuation of a Long-Term Mixed Contaminated Soilâ€"Treatability Studies in Solid- and Slurry-Phase Microcosms. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	32
53	Oak (Quercus robur) Acorn Peel as a Low-Cost Adsorbent for Hexavalent Chromium Removal from Aquatic Ecosystems and Industrial Effluents. Water, Air, and Soil Pollution, 2016, 227, 1.	1.1	31
54	Speciation and source apportionment of polycyclic aromatic compounds (PACs) in sediments of the largest salt water lake of Australia. Chemosphere, 2020, 246, 125779.	4.2	31

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55	Metal-tolerant PAH-degrading bacteria: development of suitable test medium and effect of cadmium and its availability on PAH biodegradation. Environmental Science and Pollution Research, 2015, 22, 8957-8968.	2.7	30
56	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. Environmental Technology and Innovation, 2016, 6, 204-219.	3.0	29
57	Indoor Particulate Matter in Urban Households: Sources, Pathways, Characteristics, Health Effects, and Exposure Mitigation. International Journal of Environmental Research and Public Health, 2021, 18, 11055.	1.2	29
58	Using soil properties to predict in vivo bioavailability of lead in soils. Chemosphere, 2015, 138, 422-428.	4.2	27
59	Potential of Melaleuca diosmifolia as a novel, non-conventional and low-cost coagulating adsorbent for removing both cationic and anionic dyes. Journal of Industrial and Engineering Chemistry, 2016, 37, 198-207.	2.9	27
60	Towards bioavailability-based soil criteria: past, present and future perspectives. Environmental Science and Pollution Research, 2015, 22, 8779-8785.	2.7	26
61	Risk based land management requires focus beyond the target contaminantsâ€"A case study involving weathered hydrocarbon contaminated soils. Environmental Technology and Innovation, 2015, 4, 98-109.	3.0	25
62	Cation doped hydroxyapatite nanoparticles enhance strontium adsorption from aqueous system: A comparative study with and without calcination. Applied Clay Science, 2016, 134, 136-144.	2.6	25
63	Fingerprinting Plastic-Associated Inorganic and Organic Matter on Plastic Aged in the Marine Environment for a Decade. Environmental Science & Technology, 2021, 55, 7407-7417.	4.6	25
64	Understanding the pathogenesis of occupational coal and silica dust-associated lung disease. European Respiratory Review, 2022, 31, 210250.	3.0	25
65	Remediation of metalliferous mines, revegetation challenges and emerging prospects in semi-arid and arid conditions. Environmental Science and Pollution Research, 2016, 23, 20131-20150.	2.7	24
66	Novel resources recovery from anaerobic digestates: Current trends and future perspectives. Critical Reviews in Environmental Science and Technology, 2022, 52, 1915-1999.	6.6	24
67	Assessment of antioxidant activity, minerals, phenols and flavonoid contents of common plant/tree waste extracts. Industrial Crops and Products, 2016, 83, 630-634.	2.5	23
68	Microplastics in the Marine Environment: Current Status, Assessment Methodologies, Impacts and Solutions. Journal of Pollution Effects & Control, 2016, 04, .	0.1	22
69	Speciation and bioavailability of lead in complementary medicines. Science of the Total Environment, 2016, 539, 304-312.	3.9	22
70	A critical review on the role of abiotic factors on the transformation, environmental identity and toxicity of engineered nanomaterials in aquatic environment. Environmental Pollution, 2022, 296, 118726.	3.7	22
71	Evaluation of constraints in bioremediation of weathered hydrocarbon-contaminated arid soils through microcosm biopile study. International Journal of Environmental Science and Technology, 2015, 12, 3597-3612.	1.8	20
72	Metal bioavailability to Eisenia fetida through copper mine dwelling animal and plant litter, a new challenge on contaminated environment remediation. International Biodeterioration and Biodegradation, 2016, 113, 208-216.	1.9	20

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73	Pathways of reductive degradation of crystal violet in wastewater using free-strain Burkholderia vietnamiensis C09V. Environmental Science and Pollution Research, 2014, 21, 10339-10348.	2.7	19
74	Influence of ageing on lead bioavailability in soils: a swine study. Environmental Science and Pollution Research, 2015, 22, 8979-8988.	2.7	19
75	Bioaccessibility of barium from barite contaminated soils based on gastric phase inÂvitro data and plant uptake. Chemosphere, 2016, 144, 1421-1427.	4.2	19
76	Kinetic and isotherm insights of Diclofenac removal by sludge derived hydrochar. Scientific Reports, 2022, 12, 2184.	1.6	16
77	Earthworm Comet Assay for Assessing the Risk of Weathered Petroleum Hydrocarbon Contaminated Soils: Need to Look Further than Target Contaminants. Archives of Environmental Contamination and Toxicology, 2016, 71, 561-571.	2.1	15
78	Polycyclic aromatic hydrocarbons (PAHs) degradation potential, surfactant production, metal resistance and enzymatic activity of two novel cellulose-degrading bacteria isolated from koala faeces. Environmental Earth Sciences, 2017, 76, 1.	1.3	14
79	Composition, source identification and ecological risk assessment of polycyclic aromatic hydrocarbons in surface sediments of the Subei Grand Canal, China. Environmental Earth Sciences, 2015, 74, 2669-2677.	1.3	13
80	Multifarious activities of cellulose degrading bacteria from Koala (Phascolarctos cinereus) faeces. Journal of Animal Science and Technology, 2015, 57, 23.	0.8	12
81	Synthesis and characterisation of 3-dimensional hydroxyapatite nanostructures using a thermoplastic polyurethane nanofiber sacrificial template. RSC Advances, 2015, 5, 97773-97780.	1.7	11
82	Analysis of chromium status in the revegetated flora of a tannery waste site and microcosm studies using earthworm E. fetida. Environmental Science and Pollution Research, 2018, 25, 5063-5070.	2.7	11
83	Bioavailability of polycyclic aromatic compounds (PACs) to the Sydney rock oyster (Saccostrea) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Total Environment, 2020, 736, 139574.	3.9	10
84	Evaluation of relative bioaccessibility leaching procedure for an assessment of lead bioavailability in mixed metal contaminated soils. Environmental Technology and Innovation, 2017, 7, 229-238.	3.0	6
85	Polymer prioritization framework: A novel multi-criteria framework for source mapping and characterizing the environmental risk of plastic polymers. Journal of Hazardous Materials, 2022, 429, 128330.	6.5	6
86	Assessment of chromium hyper-accumulative behaviour using biochemical analytical techniques of greenhouse cultivated Sonchus asper on tannery waste dump site soils. Environmental Science and Pollution Research, 2018, 25, 26992-26999.	2.7	5
87	Stress responses and specific metal exclusion on mine soils based on germination and growth studies by Australian golden wattle. Ecological Indicators, 2016, 71, 113-122.	2.6	4
88	Quantitative biomonitoring of polycyclic aromatic compounds (PACs) using the Sydney rock oyster (Saccostrea glomerata). Science of the Total Environment, 2020, 742, 140497.	3.9	3