

Prasanthkumar Kavanal Prabhakaran

List of Publications by Year in descending order

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76
papers

2,624
citations

147801

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76
all docs

76
docs citations

76
times ranked

3409
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Synthesis and Characterization of Fe/FeS Nanoparticles for Environmental Applications. ACS Applied Materials & Interfaces, 2011, 3, 1457-1462.	8.0	353
2	Remediation of Trichloroethylene by FeS-Coated Iron Nanoparticles in Simulated and Real Groundwater: Effects of Water Chemistry. Industrial & Engineering Chemistry Research, 2013, 52, 9343-9350.	3.7	134
3	Degradation of synthetic pollutants in real wastewater using laccase encapsulated in core-shell magnetic copper alginate beads. Bioresource Technology, 2016, 216, 203-210.	9.6	116
4	Degradation of polybrominated diphenyl ethers by a sequential treatment with nanoscale zero valent iron and aerobic biodegradation. Journal of Chemical Technology and Biotechnology, 2012, 87, 216-224.	3.2	93
5	Influence of exposure to perfluoroalkyl substances (PFASs) on the Korean general population: 10-year trend and health effects. Environment International, 2018, 113, 149-161.	10.0	90
6	Carboxymethyl cellulose coating decreases toxicity and oxidizing capacity of nanoscale zerovalent iron. Chemosphere, 2014, 104, 155-161.	8.2	85
7	Nano/bio treatment of polychlorinated biphenyls with evaluation of comparative toxicity. Journal of Hazardous Materials, 2015, 287, 335-341.	12.4	73
8	Effects of Zerovalent Iron Nanoparticles on Photosynthesis and Biochemical Adaptation of Soil-Grown Arabidopsis thaliana. Nanomaterials, 2019, 9, 1543.	4.1	70
9	Advanced oxidation and adsorptive bubble separation of dyes using MnO ₂ -coated Fe ₃ O ₄ nanocomposite. Water Research, 2019, 151, 413-422.	11.3	65
10	Matrix-specific distribution and compositional profiles of perfluoroalkyl substances (PFASs) in multimedia environments. Journal of Hazardous Materials, 2019, 364, 19-27.	12.4	59
11	Recent Developments in Microbial Biotransformation and Biodegradation of Dioxins. Journal of Molecular Microbiology and Biotechnology, 2008, 15, 152-171.	1.0	58
12	Fabrication of novel oxygen-releasing alginate beads as an efficient oxygen carrier for the enhancement of aerobic bioremediation of 1,4-dioxane contaminated groundwater. Bioresource Technology, 2014, 171, 59-65.	9.6	58
13	Transformation of hexabromocyclododecane in contaminated soil in association with microbial diversity. Journal of Hazardous Materials, 2017, 325, 82-89.	12.4	50
14	Relationship Between Serum Concentrations of Organochlorine Pesticides and Metabolic Syndrome Among Non-Diabetic Adults. Journal of Preventive Medicine and Public Health, 2010, 43, 1.	1.9	50
15	Self-Generation of Reactive Oxygen Species on Crystalline AgBiO ₃ for the Oxidative Remediation of Organic Pollutants. ACS Applied Materials & Interfaces, 2017, 9, 28426-28432.	8.0	49
16	Partitioning Behavior of Heavy Metals and Persistent Organic Pollutants among Fetal Maternal Bloods and Tissues. Environmental Science & Technology, 2015, 49, 7411-7422.	10.0	48
17	Degradation of carbamazepine by singlet oxygen from sulfidized nanoscale zero-valent iron citric acid system. Chemical Engineering Journal, 2020, 382, 122828.	12.7	48
18	Tuning and Characterizing Nanocellulose Interface for Enhanced Removal of Dual-Sorbate (As ^V and Cr ^{VI}) from Water Matrices. ACS Sustainable Chemistry and Engineering, 2017, 5, 518-528.	6.7	47

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19	HBCD and TBBPA in human scalp hair: Evidence of internal exposure. <i>Chemosphere</i> , 2018, 207, 70-77.	8.2	46
20	Human exposure to HBCD and TBBPA via indoor dust in Korea: Estimation of external exposure and body burden. <i>Science of the Total Environment</i> , 2017, 593-594, 779-786.	8.0	43
21	Hexabromocyclododecane (HBCD) in the Korean food basket and estimation of dietary exposure. <i>Environmental Pollution</i> , 2016, 213, 268-277.	7.5	41
22	Matrix-specific distribution and diastereomeric profiles of hexabromocyclododecane (HBCD) in a multimedia environment: Air, soil, sludge, sediment, and fish. <i>Environmental Pollution</i> , 2017, 226, 515-522.	7.5	41
23	Impact of surface modification on the toxicity of zerovalent iron nanoparticles in aquatic and terrestrial organisms. <i>Ecotoxicology and Environmental Safety</i> , 2018, 163, 436-443.	6.0	37
24	Enhanced oxidative activity of zero-valent iron by citric acid complexation. <i>Chemical Engineering Journal</i> , 2019, 373, 891-901.	12.7	37
25	Occurrence of Legacy and New Persistent Organic Pollutants in Avian Tissues from King George Island, Antarctica. <i>Environmental Science & Technology</i> , 2015, 49, 13628-13638.	10.0	35
26	Large rate of uptake of atmospheric carbon dioxide by planted forest biomass in Korea. <i>Global Biogeochemical Cycles</i> , 2002, 16, 36-1-36-5.	4.9	34
27	Enhancing the reactivity of bimetallic Bi/Fe ₀ by citric acid for remediation of polluted water. <i>Journal of Hazardous Materials</i> , 2016, 310, 135-142.	12.4	34
28	Occurrence of Dechlorane compounds and polybrominated diphenyl ethers (PBDEs) in the Korean general population. <i>Environmental Pollution</i> , 2016, 212, 330-336.	7.5	32
29	Zerovalent-Iron/Platinum Janus Micromotors with Spatially Separated Functionalities for Efficient Water Decontamination. <i>ACS Applied Nano Materials</i> , 2018, 1, 768-776.	5.0	32
30	Novel self-assembled bimetallic structure of Bi/Fe ₀ : The oxidative and reductive degradation of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX). <i>Journal of Hazardous Materials</i> , 2015, 286, 107-117.	12.4	31
31	Uptake, Distribution, and Transformation of Zerovalent Iron Nanoparticles in the Edible Plant <i>Cucumis sativus</i> . <i>Environmental Science & Technology</i> , 2018, 52, 10057-10066.	10.0	31
32	In situ chemical oxidation of contaminated groundwater using a sulfidized nanoscale zerovalent iron-persulfate system: Insights from a box-type study. <i>Chemosphere</i> , 2020, 257, 127117.	8.2	31
33	Investigating Dechlorane Plus (DP) distribution and isomer specific adsorption behavior in size fractionated marine sediments. <i>Science of the Total Environment</i> , 2014, 481, 114-120.	8.0	30
34	Aerobic bacterial catabolism of persistent organic pollutants – potential impact of biotic and abiotic interaction. <i>Current Opinion in Biotechnology</i> , 2016, 38, 71-78.	6.6	30
35	Assessment of Dechlorane compounds in foodstuffs obtained from retail markets and estimates of dietary intake in Korean population. <i>Journal of Hazardous Materials</i> , 2014, 275, 19-25.	12.4	28
36	Ten-year time trend of dioxins in human serum obtained from metropolitan populations in Seoul, Korea. <i>Science of the Total Environment</i> , 2014, 470-471, 1338-1345.	8.0	26

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37	Diastereoisomer- and species-specific distribution of hexabromocyclododecane (HBCD) in fish and marine invertebrates. <i>Journal of Hazardous Materials</i> , 2015, 300, 114-120.	12.4	26
38	Enhanced removal of chromate from aqueous solution by sequential adsorption–reduction on mesoporous iron–iron oxide nanocomposites. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	24
39	Estimated dietary intake and risk assessment of polychlorinated dibenzo-p-dioxins and dibenzofurans and dioxin-like polychlorinated biphenyls from fish consumption in the Korean general population. <i>Chemosphere</i> , 2016, 146, 419-425.	8.2	22
40	Exposure of general population to PBDEs: A Progressive Total Diet Study in South Korea. <i>Environmental Pollution</i> , 2014, 195, 192-201.	7.5	20
41	Progressive risk assessment of polychlorinated biphenyls through a Total Diet Study in the Korean population. <i>Environmental Pollution</i> , 2015, 207, 403-412.	7.5	20
42	Polychlorinated naphthalenes (PCNs) in seafood: Estimation of dietary intake in Korean population. <i>Science of the Total Environment</i> , 2018, 624, 40-47.	8.0	18
43	Determinants of serum organochlorine pesticide and polychlorinated biphenyl levels in middle-aged Korean adults. <i>Environmental Science and Pollution Research</i> , 2018, 25, 249-259.	5.3	18
44	Urinary bisphenol A concentrations and the risk of obesity in Korean adults. <i>Scientific Reports</i> , 2021, 11, 1603.	3.3	18
45	An experimental and theoretical study of the kinetics and mechanism of hydroxyl radical reaction with 2-aminopyrimidine. <i>RSC Advances</i> , 2014, 4, 14157.	3.6	17
46	Superparamagnetic nalidixic acid grafted magnetite (Fe ₃ O ₄ /NA) for rapid and efficient mercury removal from water. <i>RSC Advances</i> , 2016, 6, 35825-35832.	3.6	17
47	Treatability of hexabromocyclododecane using Pd/Fe nanoparticles in the soil-plant system: Effects of humic acids. <i>Science of the Total Environment</i> , 2019, 689, 444-450.	8.0	17
48	Synthesis of metal sulfide-coated iron nanoparticles with enhanced surface reactivity and biocompatibility. <i>RSC Advances</i> , 2013, 3, 5338.	3.6	16
49	Predicting reductive debromination of polybrominated diphenyl ethers by nanoscale zerovalent iron and its implications for environmental risk assessment. <i>Science of the Total Environment</i> , 2014, 470-471, 1553-1557.	8.0	15
50	Influence of non-detect data-handling on toxic equivalency quantities of PCDD/Fs and dioxin-like PCBs: A case study of major fish species purchased in Korea. <i>Environmental Pollution</i> , 2016, 214, 532-538.	7.5	15
51	Photosensitized diastereoisomer-specific degradation of hexabromocyclododecane (HBCD) in the presence of humic acid in aquatic systems. <i>Journal of Hazardous Materials</i> , 2019, 369, 171-179.	12.4	15
52	Fragmentation of nanoplastics driven by plant–microbe rhizosphere interaction during abiotic stress combination. <i>Environmental Science: Nano</i> , 2021, 8, 2802-2810.	4.3	15
53	Health risk assessment of exposure to organochlorine pesticides in the general population in Seoul, Korea over 12 years: A cross-sectional epidemiological study. <i>Journal of Hazardous Materials</i> , 2022, 424, 127381.	12.4	15
54	Dihydroxynaphthalene–Cl ₂ -based mimicry of fungal melanogenesis for multifunctional coatings. <i>Microbial Biotechnology</i> , 2016, 9, 305-315.	4.2	14

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55	Electrochemical activation of hydrogen peroxide, persulfate, and free chlorine using sacrificial iron anodes for decentralized wastewater treatment. <i>Journal of Hazardous Materials</i> , 2022, 423, 127068.	12.4	14
56	Carbon-nitride-based micromotor driven by chromate-hydrogen peroxide redox system: Application for removal of sulfamethaxazole. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 94-103.	9.4	13
57	Ligand-Assisted Sequential Redox Degradation of Tetrabromobisphenol A Using Bimetallic Zero-Valent Iron Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 17329-17337.	3.7	12
58	Determination of diapycnal diffusion rates in the upper thermocline in the North Atlantic Ocean using sulfur hexafluoride. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	10
59	Contrasting reactions of hydrated electron and formate radical with 2-thio analogues of cytosine and uracil. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28781-28790.	2.8	9
60	Passive air sampling of persistent organic pollutants in Korea. <i>Toxicology and Environmental Health Sciences</i> , 2009, 1, 75-82.	2.1	8
61	Insights into the Mechanism of Hydroxyl Radical Mediated Oxidations of 2-Aminopurine: A Computational and Sonochemical Product Analysis Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6245-6256.	2.6	8
62	Anomalous reaction of oxide radical ion with 5-azacytosines: An experimental and theoretical study. <i>Chemical Physics Letters</i> , 2009, 467, 381-386.	2.6	7
63	Evaluation of toxicological biomarkers in secreted proteins of HepG2 cells exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin and their expressions in the plasma of rats and incineration workers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 584-593.	2.3	7
64	Levels of polybrominated diphenyl ethers in the Korean metropolitan population are declining: A trend from 2001 to 2013. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2323-2330.	4.3	7
65	Factors associated with partitioning behavior of persistent organic pollutants in a feto-maternal system: A multiple linear regression approach. <i>Chemosphere</i> , 2021, 263, 128247.	8.2	7
66	Simultaneous removal of heavy metals and dyes in water using a MgO-coated Fe ₃ O ₄ nanocomposite: Role of micro-mixing effect induced by bubble generation. <i>Chemosphere</i> , 2022, 294, 133788.	8.2	7
67	Internal distribution and fate of persistent organic contaminants (PCDD/Fs, DL-PCBs, HBCDs, TBBPA,) Tj ETQq1 1 0,784314 rgBT /Ove 7.5		
68	Activation of hydrogen peroxide, persulfate, and free chlorine by steel anode for treatment of municipal and livestock wastewater: Unravelling the role of oxidants speciation. <i>Water Research</i> , 2022, 216, 118305.	11.3	6
69	A combined experimental and DFT approach on free radical induced oxidations of kynurenic acid. <i>New Journal of Chemistry</i> , 2020, 44, 18858-18866.	2.8	5
70	Experimental study of solute transport and extraction by a single root in soil. <i>Plant and Soil</i> , 2005, 269, 213-224.	3.7	3
71	A Catabolic Activity of <i>Sphingomonas wittichii</i> RW1 in the Biotransformation of Carbazole. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 943-949.	2.4	3
72	Dietary exposure and potential human health risk of dioxins in South Korea: Application of deterministic and probabilistic methods. <i>Chemosphere</i> , 2022, 291, 133018.	8.2	3

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73	Enhancement of the reactivity of sulfidized nanoscale zero-valent iron-persulfate by ligand addition for the oxidative degradation of water pollutants. <i>Materials Today: Proceedings</i> , 2020, 33, 1389-1395.	1.8	1
74	Microbial Volatile Organic Compound (VOC)-Driven Dissolution and Surface Modification of Phosphorus-Containing Soil Minerals for Plant Nutrition: An Indirect Route for VOC-Based Plant-Microbe Communications. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14478-14487.	5.2	1
75	Rapid Dechlorination of Polychlorinated Dibenzo-p-dioxins by Nanosized and Bimetallic Zerovalent Iron. <i>ACS Symposium Series</i> , 2010, , 89-115.	0.5	0
76	Twenty-year trends and exposure assessment of polychlorinated dibenzodioxins and dibenzofurans in human serum from the Seoul citizens. <i>Chemosphere</i> , 2021, 273, 128558.	8.2	0