K G Karthikeyan

List of Publications by Year
in descending order

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69 papers	4,484 citations	186265 28 h-index	110387 64 g-index
69 all docs	69 docs citations	69 times ranked	5439 citing authors

#	Article	IF	Citations
1	Occurrence of antibiotics in wastewater treatment facilities in Wisconsin, USA. Science of the Total Environment, 2006, 361, 196-207.	8.0	672
2	Interaction of Tetracycline with Aluminum and Iron Hydrous Oxides. Environmental Science & Technology, 2005, 39, 2660-2667.	10.0	432
3	Root Uptake of Pharmaceuticals and Personal Care Product Ingredients. Environmental Science & Technology, 2016, 50, 525-541.	10.0	352
4	Sorption of the Antimicrobial Ciprofloxacin To Aluminum and Iron Hydrous Oxides. Environmental Science & Technology, 2005, 39, 9166-9173.	10.0	344
5	Complexation of the antibiotic tetracycline with humic acid. Chemosphere, 2007, 66, 1494-1501.	8.2	311
6	Cesium Adsorption on Clay Minerals:Â An EXAFS Spectroscopic Investigation. Environmental Science & Technology, 2002, 36, 2670-2676.	10.0	247
7	Cost effectiveness of phosphorus removal processes in municipal wastewater treatment. Chemosphere, 2018, 197, 280-290.	8.2	129
8	Exploring the impact of pore size distribution on the performance of carbon electrodes for capacitive deionization. Journal of Colloid and Interface Science, 2014, 430, 93-99.	9.4	121
9	Adsorption and Coprecipitation of Copper with the Hydrous Oxides of Iron and Aluminum. Environmental Science & Technology, 1997, 31, 2721-2725.	10.0	106
10	Orthophosphate Sorption onto Lanthanum-Treated Lignocellulosic Sorbents. Environmental Science & Technology, 2005, 39, 6273-6279.	10.0	103
11	Adsorption mechanism of cadmium on juniper bark and wood. Bioresource Technology, 2007, 98, 588-594.	9.6	99
12	Sorption of the Antibiotic Tetracycline to Humicâ€Mineral Complexes. Journal of Environmental Quality, 2008, 37, 704-711.	2.0	93
13	Linking Cesium and Strontium Uptake to Kaolinite Weathering in Simulated Tank Waste Leachate. Environmental Science & Technology, 2003, 37, 2200-2208.	10.0	85
14	Determination of Phosphorus Speciation in Dairy Manure using XRD and XANES Spectroscopy. Journal of Environmental Quality, 2007, 36, 1856-1863.	2.0	83
15	Phosphorus forms and extractability in dairy manure: A case study for Wisconsin on-farm anaerobic digesters. Bioresource Technology, 2008, 99, 425-436.	9.6	83
16	Mechanistic insights into the use of oxide nanoparticles coated asymmetric electrodes for capacitive deionization. Electrochimica Acta, 2013, 90, 573-581.	5.2	83
17	Anaerobic digestion of thin stillage for energy recovery and water reuse in corn-ethanol plants. Bioresource Technology, 2011, 102, 9891-9896.	9.6	63
18	Apportionment of suspended sediment sources in an agricultural watershed using sediment fingerprinting. Geoderma, 2015, 239-240, 25-33.	5.1	59

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19	Economic analysis of electrodialysis, denitrification, and anammox for nitrogen removal in municipal wastewater treatment. Journal of Cleaner Production, 2020, 262, 121145.	9.3	59
20	Role of Surface Precipitation in Copper Sorption by the Hydrous Oxides of Iron and Aluminum. Journal of Colloid and Interface Science, 1999, 209, 72-78.	9.4	57
21	Energy Consumption and Recovery in Capacitive Deionization Using Nanoporous Activated Carbon Electrodes. Journal of the Electrochemical Society, 2015, 162, E282-E288.	2.9	52
22	Mesoporous cellulose-chitosan composite hydrogel fabricated via the co-dissolution-regeneration process as biosorbent of heavy metals. Environmental Pollution, 2021, 286, 117324.	7.5	46
23	Quantifying the Impact of Seasonal and Shortâ€term Manure Application Decisions on Phosphorus Loss in Surface Runoff. Journal of Environmental Quality, 2017, 46, 1395-1402.	2.0	43
24	Quantification of seasonal sediment and phosphorus transport dynamics in an agricultural watershed using radiometric fingerprinting techniques. Journal of Soils and Sediments, 2013, 13, 1724-1734.	3.0	42
25	Surface Complexation Modeling of Copper Sorption by Hydrous Oxides of Iron and Aluminum. Journal of Colloid and Interface Science, 1999, 220, 88-95.	9.4	40
26	Interaction of 1-Naphthol and Its Oxidation Products with Aluminum Hydroxide. Environmental Science & Technology, 1999, 33, 4009-4015.	10.0	39
27	Solution Chemistry Effects on Orthophosphate Adsorption by Cationized Solid Wood Residues. Environmental Science & Technology, 2004, 38, 904-911.	10.0	38
28	Phosphorus Dynamics in Soils Receiving Chemically Treated Dairy Manure. Journal of Environmental Quality, 2004, 33, 2296-2305.	2.0	33
29	Sources of fine sediment stored in agricultural lowland streams, Midwest, USA. Geomorphology, 2015, 236, 44-53.	2.6	31
30	Corn Residue Level and Manure Application Timing Effects on Phosphorus Losses in Runoff. Journal of Environmental Quality, 2005, 34, 1620-1631.	2.0	30
31	Residue Level and Manure Application Timing Effects on Runoff and Sediment Losses. Journal of Environmental Quality, 2005, 34, 1337-1346.	2.0	29
32	PROBABLE PHOSPHORUS SOLID PHASES AND THEIR STABILITY IN ANAEROBICALLY DIGESTED DAIRY MANURE. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1509-1520.	0.9	28
33	Effect of best management practice implementation on sediment and phosphorus load reductions at subwatershed and watershed scale using SWAT model. International Journal of Sediment Research, 2016, 31, 386-394.	3.5	28
34	Effects of Solution Chemistry on the Oxidative Transformation of 1-Naphthol and Its Complexation with Humic Acid. Environmental Science & Technology, 2000, 34, 2939-2946.	10.0	25
35	Instrumentation for Measuring Runoff, Sediment, and Chemical Losses from Agricultural Fields. Journal of Environmental Quality, 2006, 35, 216-223.	2.0	25
36	Impact of surface roughness and crusting on particle size distribution of edge-of-field sediments. Geoderma, 2008, 145, 315-324.	5.1	25

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37	Sediment and Phosphorus Losses in Snowmelt and Rainfall Runoff from Three Corn Management Systems. Transactions of the ASABE, 2008, 51, 95-105.	1.1	24
38	Effects of Binary Mixtures and Transpiration on Accumulation of Pharmaceuticals by Spinach. Environmental Science & Technology, 2019, 53, 4850-4859.	10.0	22
39	Effects of severe pretreatment conditions and lignocellulose-derived furan byproducts on anaerobic digestion of dairy manure. Bioresource Technology, 2021, 340, 125632.	9.6	22
40	Cationized milled pine bark as an adsorbent for orthophosphate anions. Journal of Applied Polymer Science, 2004, 93, 1577-1583.	2.6	21
41	Phosphorus and organic matter enrichment in snowmelt and rainfallâ€“runoff from three corn management systems. Geoderma, 2010, 154, 253-260.	5.1	20
42	Using radiometric fingerprinting and phosphorus to elucidate sediment transport dynamics in an agricultural watershed. Hydrological Processes, 2015, 29, 2681-2693.	2.6	20
43	INFLUENCE OF ANAEROBIC DIGESTION ON DAIRY MANURE PHOSPHORUS EXTRACTABILITY. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1497-1507.	0.9	19
44	Testing a Gridâ€Based Soil Erosion Model across Topographically Complex Landscapes. Soil Science Society of America Journal, 2008, 72, 1745-1755.	2.2	19
45	Using radiometric tools to track sediment and phosphorus movement in an agricultural watershed. Journal of Hydrology, 2012, 450-451, 219-229.	5.4	18
46	Impact of land use and tillage practice on soil macropore characteristics inferred from X-ray computed tomography. Catena, 2022, 210, 105886.	5.0	17
47	Fall Tillage Reduced Nutrient Loads from Liquid Manure Application during the Freezing Season. Journal of Environmental Quality, 2019, 48, 889-898.	2.0	16
48	Ultrathin quasi-hexagonal gold nanostructures for sensing arsenic in tap water. RSC Advances, 2020, 10, 20211-20221.	3.6	13
49	Plant-Induced Changes to Rhizosphere pH Impact Leaf Accumulation of Lamotrigine but Not Carbamazepine. Environmental Science and Technology Letters, 2018, 5, 377-381.	8.7	12
50	Dynamics of Measured and Simulated Dissolved Phosphorus in Runoff from Winterâ€Applied Dairy Manure. Journal of Environmental Quality, 2019, 48, 899-906.	2.0	12
51	Precipitating phosphorus as struvite from anaerobically-digested dairy manure. Journal of Cleaner Production, 2022, 339, 130675.	9.3	10
52	Phosphorus Flow and Characterization in Dryâ€Grind Corn Ethanol Plants. Journal of Environmental Quality, 2012, 41, 1695-1701.	2.0	9
53	Manure application timing drives energy absorption for snowmelt on an agricultural soil. Journal of Hydrology, 2019, 569, 51-60.	5.4	9
54	Life cycle assessment of electrodialysis for sidestream nitrogen recovery in municipal wastewater treatment. Cleaner Environmental Systems, 2021, 2, 100026.	4.2	9

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55	Reducing Phosphorus Concentration in Animal Feed Coproducts from the Corn Distilling Industry. Transactions of the ASABE, 2010, 53, 1287-1294.	1.1	8
56	Quantity and quality of water percolating below the root zone of three biofuel feedstock crop systems. Agricultural Water Management, 2019, 221, 109-119.	5.6	7
57	Solubilization of Lignocellulosic Biomass Using Pretreatments for Enhanced Methane Production during Anaerobic Digestion of Manure. ACS ES&T Engineering, 2021, 1, 753-760.	7.6	7
58	Simulation-based analysis of full-scale implementation of energy neutral wastewater treatment plants. Journal of Water Process Engineering, 2021, 40, 101875.	5.6	7
59	NITROGEN AND SOLUTION DYNAMICS IN SOILS RECEIVING CHEMICALLY TREATED DAIRY MANURE. Transactions of the American Society of Agricultural Engineers, 2005, 48, 601-610.	0.9	6
60	Temperature and Manure Placement in a Snowpack Affect Nutrient Release from Dairy Manure during Snowmelt. Journal of Environmental Quality, 2018, 47, 848-855.	2.0	6
61	SEDIMENT AND PHOSPHORUS DELIVERY FROM ALFALFA SWARDS. Transactions of the ASABE, 2006, 49, 375-388.	1.1	5
62	Chemical Treatment of Dairy Manure Using Alum, Ferric Chloride and Lime. , 2002, , .		3
63	Subsurface Transport of Cryptosporidium in Soils of Wisconsin's Carbonate Aquifer Region. Journal of Environmental Quality, 2016, 45, 1607-1615.	2.0	3
64	Seasonal and animal farm size influences on in-stream phosphorus transport in an agricultural watershed. Nutrient Cycling in Agroecosystems, 2017, 109, 29-42.	2.2	2
65	Using Atmospheric Fallout Radionuclides 137Cs and 210Pbxs to Identify Sources of Suspended Sediment in an Agricultural Watershed. Transactions of the ASABE, 2019, 62, 529-538.	1.1	2
66	Different cadmium adsorption behavior of juniper wood and bark sorbents. , 0, , .		1
67	A kinetic model of a recirculated upflow anaerobic sludge blanket treating phenolic wastewater. Water Environment Research, 1995, 67, 1004-1006.	2.7	0
68	Cryptosporidium Soil Extraction by Filtration/IMS/FA Compatible with USEPA Method 1623.1. Agricultural and Environmental Letters, 2016, 1, 160031.	1.2	0
69	Assessment of the Potential for Full-Scale Implementation of Mainstream Anaerobic Wastewater Treatment Scheme. , 2017, , .		0