Brian K Richards

List of Publications by Year
in descending order

64 papers	3,312 citations	172207 29 h-index	143772 57 g-index
67 all docs	67 docs citations	67 times ranked	3452 citing authors

#	Article	IF	Citations
1	Synthetic fibers as an indicator of land application of sludge. Environmental Pollution, 2005, 138, 201-211.	3.7	531
2	MOBILITY AND SOLUBILITY OF TOXIC METALS AND NUTRIENTS IN SOIL FIFTEEN YEARS AFTER SLUDGE APPLICATION. Soil Science, 1997, 162, 487-500.	0.9	286
3	MOVEMENT OF HEAVY METALS THROUGH UNDISTURBED AND HOMOGENIZED SOIL COLUMNS. Soil Science, 1996, 161, 740-750.	0.9	250
4	Effect of sludge-processing mode, soil texture and soil pH on metal mobility in undisturbed soil columns under accelerated loading. Environmental Pollution, 2000, 109, 327-346.	3.7	131
5	Metal mobility at an old, heavily loaded sludge application site. Environmental Pollution, 1998, 99, 365-377.	3.7	123
6	Bioavailability and crop uptake of trace elements in soil columns amended with sewage sludge products. Plant and Soil, 2004, 262, 71-84.	1.8	107
7	LONG-TERM LEACHING OF TRACE ELEMENTS IN A HEAVILY SLUDGE-AMENDED SILTY CLAY LOAM SOIL. Soil Science, 1999, 164, 613-623.	0.9	106
8	Distribution of Colloid Particles onto Interfaces in Partially Saturated Sand. Environmental Science & Technology, 2005, 39, 7055-7064.	4.6	99
9	Evaluating topographic wetness indices across central New York agricultural landscapes. Hydrology and Earth System Sciences, 2014, 18, 3279-3299.	1.9	92
10	Investigating raindrop effects on transport of sediment and non-sorbed chemicals from soil to surface runoff. Journal of Hydrology, 2005, 308, 313-320.	2.3	85
11	Methods for kinetic analysis of methane fermentation in high solids biomass digesters. Biomass and Bioenergy, 1991, 1, 65-73.	2.9	80
12	Untapped Potential: Opportunities and Challenges for Sustainable Bioenergy Production from Marginal Lands in the Northeast USA. Bioenergy Research, 2015, 8, 482-501.	2.2	79
13	Temporal Variability of Nitrous Oxide from Fertilized Croplands: Hot Moment Analysis. Soil Science Society of America Journal, 2012, 76, 1728-1740.	1.2	71
14	Capillary retention of colloids in unsaturated porous media. Water Resources Research, 2008, 44, .	1.7	63
15	Losses of manurial nitrogen in free-stall barns. Agricultural Wastes, 1983, 7, 65-79.	0.4	62
16	Molybdenum Uptake by Forage Crops Grown on Sewage Sludgeâ€Amended Soils in the Field and Greenhouse. Journal of Environmental Quality, 2000, 29, 848-854.	1.0	61
17	Reporting on Marginal Lands for Bioenergy Feedstock Production: a Modest Proposal. Bioenergy Research, 2014, 7, 1060-1062.	2.2	59
18	TRACE METAL ACCUMULATION BY RED CLOVER GROWN ON SEWAGE SLUDGE-AMENDED SOILS AND CORRELATION TO MEHLICH 3 AND CALCIUM CHLORIDE-EXTRACTABLE METALS. Soil Science, 2003, 168, 29-38.	0.9	58

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19	Transport of Cd, Cu, Pb and Zn in a calcareous soil under wheat and safflower cultivationâ€" A column study. Geoderma, 2010, 154, 311-320.	2.3	57
20	Nitrous oxide emission at low temperatures from manure-amended soils under corn (Zea mays L.). Agriculture, Ecosystems and Environment, 2009, 132, 74-81.	2.5	55
21	Methane fermentation of energy crops: Maximum conversion kinetics and in situ biogas purification. Biomass and Bioenergy, 1993, 5, 261-278.	2.9	51
22	Dissolved Phosphorus from Undisturbed Soil Cores. Soil Science Society of America Journal, 2003, 67, 458-470.	1.2	47
23	Detection of glyphosate residues in companion animal feeds. Environmental Pollution, 2018, 243, 1113-1118.	3.7	42
24	In situ methane enrichment in methanogenic energy crop digesters. Biomass and Bioenergy, 1994, 6, 275-282.	2.9	40
25	High solids anaerobic methane fermentation of sorghum and cellulose. Biomass and Bioenergy, 1991, 1, 47-53.	2.9	38
26	Effect of Processing Mode on Trace Elements in Dewatered Sludge Products. Journal of Environmental Quality, 1997, 26, 782-788.	1.0	37
27	Effect of Microbial Activity on Trace Element Release from Sewage Sludge. Environmental Science & Technology, 2003, 37, 3361-3366.	4.6	36
28	Lower mineralizability of soil carbon with higher legacy soil moisture. Soil Biology and Biochemistry, 2019, 130, 94-104.	4.2	36
29	Nitrous Oxide from Heterogeneous Agricultural Landscapes: Source Contribution Analysis by Eddy Covariance and Chambers. Soil Science Society of America Journal, 2011, 75, 1829-1838.	1.2	35
30	Quantifying colloid retention in partially saturated porous media. Water Resources Research, 2006, 42, .	1.7	32
31	Effects of manure storage design on nitrogen conservation. Agricultural Wastes, 1984, 10, 205-220.	0.4	30
32	A GIS-Based Ground Water Contamination Risk Assessment Tool for Pesticides. Ground Water Monitoring and Remediation, 2005, 25, 82-91.	0.6	30
33	Evaluating the bio-hydrological impact of a cloud forest in Central America using a semi-distributed water balance model. Journal of Hydrology and Hydromechanics, 2013, 61, 9-20b.	0.7	29
34	Transport and retention of colloidal particles in partially saturated porous media: Effect of ionic strength. Water Resources Research, 2009, 45, .	1.7	28
35	Microbial acidification and pH effects on trace element release from sewage sludge. Environmental Pollution, 2004, 132, 61-71.	3.7	26
36	Biocolloid retention in partially saturated soils. Biologia (Poland), 2006, 61, S229-S233.	0.8	24

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37	Dissolved Phosphorus from Undisturbed Soil Cores. Soil Science Society of America Journal, 2003, 67, 458.	1.2	23
38	High rate low solids methane fermentation of sorghum, corn and cellulose. Biomass and Bioenergy, 1991, 1, 249-260.	2.9	22
39	Disturbance, starvation, and overfeeding stresses detected by microbial lipid biomarkers in high-solids high-yield methanogenic reactors. Journal of Industrial Microbiology, 1991, 8, 91-98.	0.9	20
40	Temperature and Microbial Activity Effects on Trace Element Leaching from Metalliferous Peats. Journal of Environmental Quality, 2003, 32, 2067-2075.	1.0	19
41	Validation of a simple gravimetric method for measuring biogas production in laboratory experiments. Biomass and Bioenergy, 2015, 83, 297-301.	2.9	19
42	The long-term effect of sludge application on Cu, Zn, and Mo behavior in soils and accumulation in soybean seeds. Plant and Soil, 2007, 299, 227-236.	1.8	18
43	Nitrous Oxide and Ammonia Emissions from Urineâ€Treated Soils: Texture Effect. Vadose Zone Journal, 2006, 5, 1236-1245.	1.3	16
44	Nitrous oxide from aerated dairy manure slurries: Effects of aeration rates and oxic/anoxic phasing. Bioresource Technology, 2008, 99, 8643-8648.	4.8	15
45	Effects of Cadmium, Copper, Lead, and Zinc Contamination on Metal Accumulation by Safflower and Wheat. Soil and Sediment Contamination, 2009, 18, 216-228.	1.1	14
46	Reply to â€œComments on â€˜Poreâ€Scale Visualization of Colloid Transport and Retention in Partly Saturated Porous Mediaâ€™â€• Vadose Zone Journal, 2005, 4, 957-958.	1.3	13
47	Perennial Grass Bioenergy Cropping on Wet Marginal Land: Impacts on Soil Properties, Soil Organic Carbon, and Biomass During Initial Establishment. Bioenergy Research, 2018, 11, 262-276.	2.2	13
48	Chloride and Lithium Transport in Large Arrays of Undisturbed Silt Loam and Sandy Loam Soil Columns. Vadose Zone Journal, 2003, 2, 715-727.	1.3	12
49	Soil organic carbon accrual due to more efficient microbial utilization of plant inputs at greater long-term soil moisture. Geochimica Et Cosmochimica Acta, 2022, 327, 170-185.	1.6	12
50	Antecedent and Post-Application Rain Events Trigger Glyphosate Transport from Runoff-Prone Soils. Environmental Science and Technology Letters, 2018, 5, 249-254.	3.9	11
51	Functional models for colloid retention in porous media at the triple line. Environmental Science and Pollution Research, 2014, 21, 9067-9080.	2.7	9
52	Starvation and overfeeding stress on microbial activities in high-solids high-yield methanogenic digesters. Biomass and Bioenergy, 1991, 1, 75-82.	2.9	7
53	Hotspots of Nitrous Oxide Emission in Fertilized and Unfertilized Perennial Grasses. Soil Science Society of America Journal, 2017, 81, 450-458.	1.2	7
54	Chloride and Lithium Transport in Large Arrays of Undisturbed Silt Loam and Sandy Loam Soil Columns. Vadose Zone Journal, 2003, 2, 715.	1.3	7

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55	Trace Metal Retention in the Incorporation Zone of Land-Applied Sludge. Environmental Science & Technology, 1999, 33, 1171-1174.	4.6	6
56	ENVIRONMENTAL IMPACTS OF APPLYING MANURE, FERTILIZER, AND SEWAGE BIOSOLIDS ON A DAIRY FARM. Journal of the American Water Resources Association, 2004, 40, 1025-1042.	1.0	5
57	Gaseous Nitrogen Emission from Soil Aggregates as Affected by Clay Mineralogy and Repeated Urine Applications. Water, Air, and Soil Pollution, 2008, 195, 285-299.	1.1	4
58	Surveying Upstate NY Well Water for Pesticide Contamination: Cayuga and Orange Counties. Ground Water Monitoring and Remediation, 2012, 32, 73-82.	0.6	4
59	Phosphonate herbicide interactions with quartz, montmorillonite, and quartzâ€enriched agricultural soil. Soil Science Society of America Journal, 2022, 86, 209-223.	1.2	4
60	Emission of Nitrous Oxide from New York State Dairy Farms. , 2007, , .		3
61	Nitrous Oxide and Methane Fluxes from Smallholder Farms: A Scoping Study in the Anjeni Watershed. Climate, 2016, 4, 62.	1.2	2
62	Self organizing hydrological processes in a runoff source area. Catena, 2022, 211, 105955.	2.2	2
63	Spring-Thaw Nitrous Oxide Emissions from Reed Canarygrass on Wetness-Prone Marginal Soil in New York State. Soil Science Society of America Journal, 2016, 80, 428-437.	1.2	1
64	Predicting the Fate of Preferentially Moving Herbicides. Vadose Zone Journal, 2019, 18, 1-11.	1.3	0