

Kenneth A Barbarick

List of Publications by Year in descending order

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57
papers

1,964
citations

218677

26
h-index

254184

43
g-index

57
all docs

57
docs citations

57
times ranked

1360
citing authors

#	ARTICLE	IF	CITATIONS
1	Drinking Water Treatment Residuals: A Review of Recent Uses. <i>Journal of Environmental Quality</i> , 2011, 40, 1-12.	2.0	264
2	Distribution and Partitioning of Trace Metals in Contaminated Soils near Leadville, Colorado. <i>Journal of Environmental Quality</i> , 1992, 21, 185-195.	2.0	136
3	Phosphorus Retention Mechanisms of a Water Treatment Residual. <i>Journal of Environmental Quality</i> , 2003, 32, 1857-1864.	2.0	122
4	Selenium adsorption to aluminum-based water treatment residuals. <i>Journal of Colloid and Interface Science</i> , 2009, 338, 48-55.	9.4	95
5	Water Treatment Sludge Influence on the Growth of Sorghum-Sudangrass. <i>Journal of Environmental Quality</i> , 1989, 18, 292-298.	2.0	76
6	Sewage Sludge Proteins as Labile Carbon and Nitrogen Sources. <i>Soil Science Society of America Journal</i> , 1992, 56, 1470-1476.	2.2	74
7	Co-application Effects of Water Treatment Residuals and Biosolids on Two Range Grasses. <i>Journal of Environmental Quality</i> , 1999, 28, 1644-1650.	2.0	66
8	Exchange Fertilizer (Phosphate Rock plus Ammonium-Zeolite) Effects on Sorghum-Sudangrass. <i>Soil Science Society of America Journal</i> , 1990, 54, 911-916.	2.2	52
9	Soil nitrate analysis by cadmium reduction. <i>Communications in Soil Science and Plant Analysis</i> , 1981, 12, 79-89.	1.4	48
10	Ammonium Bicarbonate-DTPA and DTPA Extractions of Sludge-amended Soils. <i>Journal of Environmental Quality</i> , 1987, 16, 125-130.	2.0	47
11	Solution Chemistry Influence on Metal Mobility in Biosolids-Amended Soils. <i>Journal of Environmental Quality</i> , 2002, 31, 1157-1165.	2.0	47
12	Extractable Trace Elements in the Soil Profile after Years of Biosolids Application. <i>Journal of Environmental Quality</i> , 1998, 27, 801-805.	2.0	44
13	Biosolids Effect on Phosphorus, Copper, Zinc, Nickel, and Molybdenum Concentrations in Dryland Wheat. <i>Journal of Environmental Quality</i> , 1995, 24, 608-611.	2.0	42
14	Plant Biomass and Elemental Changes in Shrubland Forages following Biosolids Application. <i>Journal of Environmental Quality</i> , 1998, 27, 789-794.	2.0	42
15	Effect of Small-Scale Composting of Sewage Sludge on Heavy Metal Availability to Plants. <i>Journal of Environmental Quality</i> , 1984, 13, 264-268.	2.0	40
16	Nutrient Assessment of a Dryland Wheat Agroecosystem after 12 Years of Biosolids Applications. <i>Agronomy Journal</i> , 2007, 99, 715-722.	1.8	39
17	Sewage Sludge Application Effects on Runoff Water Quality in a Semiarid Grassland. <i>Journal of Environmental Quality</i> , 1995, 24, 112-115.	2.0	38
18	Plant and Soil Responses to Biosolids Application following Forest Fire. <i>Journal of Environmental Quality</i> , 2004, 33, 873.	2.0	37

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19	BIOSOLIDS EFFECTS ON MICROBIAL ACTIVITY IN SHRUBLAND AND GRASSLAND SOILS. <i>Soil Science</i> , 2004, 169, 176-187.	0.9	36
20	Nitrogen Fertilizer Equivalency of Sewage Biosolids Applied to Dryland Winter Wheat. <i>Journal of Environmental Quality</i> , 2000, 29, 1345-1351.	2.0	35
21	Soil Properties Affecting Wheat Yields following Drilling-Fluid Application. <i>Journal of Environmental Quality</i> , 2005, 34, 1687-1696.	2.0	34
22	Biosolids Applications Affect Runoff Water Quality following Forest Fire. <i>Journal of Environmental Quality</i> , 2001, 30, 1528-1532.	2.0	31
23	Ammonium Adsorption by a Zeolite in a Static and a Dynamic System. <i>Journal of Environmental Quality</i> , 1983, 12, 549-552.	2.0	30
24	Use of a new GIS nitrogen index assessment tool for evaluation of nitrate leaching across a Mediterranean region. <i>Journal of Hydrology</i> , 2009, 365, 183-194.	5.4	30
25	Biosolids Impact Soil Phosphorus Accountability, Fractionation, and Potential Environmental Risk. <i>Journal of Environmental Quality</i> , 2007, 36, 764-772.	2.0	29
26	Distribution and Mineralization of Biosolids Nitrogen Applied to Dryland Wheat. <i>Journal of Environmental Quality</i> , 1996, 25, 796-801.	2.0	27
27	Sewage Biosolids Cumulative Effects on Extractable Soil and Grain Elemental Concentrations. <i>Journal of Environmental Quality</i> , 1997, 26, 1696-1702.	2.0	27
28	Tissue Nitrogen Levels For Dryland Hard Red Winter Wheat. <i>Agronomy Journal</i> , 1990, 82, 561-565.	1.8	26
29	Economic Value of Biosolids in a Semiarid Agroecosystem. <i>Agronomy Journal</i> , 2009, 101, 933-939.	1.8	21
30	Fifteen years of wheat yield, N uptake, and soil nitrate-N dynamics in a biosolids-amended agroecosystem. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 116-120.	5.3	21
31	Biosolids Affect Soil Barium in a Dryland Wheat Agroecosystem. <i>Journal of Environmental Quality</i> , 2006, 35, 2333-2341.	2.0	20
32	Biosolids application to no-till dryland agroecosystems. <i>Agriculture, Ecosystems and Environment</i> , 2012, 150, 72-81.	5.3	20
33	Sustainable Rates of Sewage Sludge for Dryland Winter Wheat Production I. Soil Nitrogen and Heavy Metals. <i>Journal of Production Agriculture</i> , 1990, 3, 60-65.	0.4	18
34	Sewage Sludge Proteins: I. Extraction Methodology. <i>Journal of Environmental Quality</i> , 1993, 22, 620-624.	2.0	18
35	Water Treatment Residuals and Biosolids Long-Term Co-Applications Effects to Semi-Arid Grassland Soils and Vegetation. <i>Soil Science Society of America Journal</i> , 2009, 73, 1880-1889.	2.2	18
36	Water Treatment Residuals and Biosolids Coapplications Affect Semiarid Rangeland Phosphorus Cycling. <i>Soil Science Society of America Journal</i> , 2008, 72, 711-719.	2.2	17

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37	A new Nitrogen Index to evaluate nitrogen losses in intensive forage systems in Mexico. <i>Agriculture, Ecosystems and Environment</i> , 2011, 142, 352-364.	5.3	17
38	Sustainable Rates of Sewage Sludge for Dryland Winter Wheat Production II. Production and Income. <i>Journal of Production Agriculture</i> , 1990, 3, 66-71.	0.4	16
39	Potassium Fertilization of Alfalfa Grown on a Soil High in Potassium I. <i>Agronomy Journal</i> , 1985, 77, 442-445.	1.8	15
40	POLYHALITE APPLICATION TO SORGHUM-SUDANGRASS AND LEACHING IN SOIL COLUMNS. <i>Soil Science</i> , 1991, 151, 159-166.	0.9	15
41	Modified nitric acid plant tissue digest method. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 2473-2482.	1.4	14
42	Termination of Sewage Biosolids Application Affects Wheat Yield and Other Agronomic Characteristics. <i>Agronomy Journal</i> , 2003, 95, 1288-1294.	1.8	14
43	Comparison of Various Methods of Sampling Soil Water for Determining Ionic Salts, Sodium, and Calcium Content in Soil Columns. <i>Soil Science Society of America Journal</i> , 1979, 43, 1053-1055.	2.2	13
44	Fate of Biosolids Trace Metals in a Dryland Wheat Agroecosystem. <i>Journal of Environmental Quality</i> , 2008, 37, 2135-2144.	2.0	12
45	Fate of biosolids Cu and Zn in a semi-arid grassland. <i>Agriculture, Ecosystems and Environment</i> , 2009, 131, 325-332.	5.3	12
46	Combinations of water treatment residuals and biosolids affect two range grasses. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 831-844.	1.4	11
47	Drilling Fluid Effects on Crop Growth and Iron and Zinc Availability. <i>Journal of Environmental Quality</i> , 1999, 28, 744-749.	2.0	10
48	Phosphorus Extraction Methods for Water Treatment Residual Amended Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2006, 37, 859-870.	1.4	10
49	Sewage Sludge Proteins: II. Extract Characterization. <i>Journal of Environmental Quality</i> , 1993, 22, 625-629.	2.0	9
50	New Weighing Method to Measure Shoot Water Interception. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2008, 134, 349-355.	1.0	8
51	Water Treatment Residuals and Biosolids Co-applications Affect Phosphatases in a Semi-arid Rangeland Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2008, 39, 2812-2826.	1.4	5
52	PREDICTING SOIL-EXTRACTABLE ZN, P, FE, AND CU IN A BIOSOLIDS-AMENDED DRYLAND WHEAT AGROECOSYSTEM. <i>Soil Science</i> , 2008, 173, 175-185.	0.9	5
53	Continuous biosolids application affects grain elemental concentrations in a dryland-wheat agroecosystem. <i>Agriculture, Ecosystems and Environment</i> , 2009, 129, 340-343.	5.3	4
54	Application of Sewage Effluent to Columns of a Mountain Meadow Soil: I. Errors in Calculating the Transport of Ionic Salts. <i>Soil Science Society of America Journal</i> , 1980, 44, 921-924.	2.2	2

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55	ERRORS IN CALCULATING THE FLUX OF SODIUM IN SOIL COLUMNS. Soil Science, 1983, 136, 1-9.	0.9	2
56	Accumulation of Late-Applied Nitrogen and Root Dynamics during Grain Filling in Irrigated Spring Wheat. Communications in Soil Science and Plant Analysis, 2011, 42, 2235-2249.	1.4	2
57	Growing Need for Agriculture Experts. Science, 2012, 335, 917-917.	12.6	1