Gerwin F Koopmans

List of Publications by Year
in descending order

50 papers	2,564 citations	168829 31 h-index	214428 50 g-index
51 all docs	51 docs citations	51 times ranked	3036 citing authors

#	Article	IF	Citations
1	Use of iron-coated sand for removing soluble phosphorus from drainage water. Science of the Total Environment, 2022, 815, 152738.	3.9	7
2	Evaluation of heavy metal availability in soils near former zinc smelters by chemical extractions and geochemical modelling. Geoderma, 2022, 423, 115970.	2.3	8
3	Effects of Biostimulants and Fertilization on Nutrient Uptake by Grass and Composition of Soil Pore Water Versus 0.01 M CaCl₂ Soil Extracts. Communications in Soil Science and Plant Analysis, 2021, 52, 2516-2532.	0.6	4
4	Use of iron oxide nanoparticles for immobilizing phosphorus in-situ: Increase in soil reactive surface area and effect on soluble phosphorus. Science of the Total Environment, 2020, 711, 135220.	3.9	35
5	Towards optimal use of phosphorus fertiliser. Scientific Reports, 2020, 10, 17804.	1.6	27
6	Assessing the Reactive Surface Area of Soils and the Association of Soil Organic Carbon with Natural Oxide Nanoparticles Using Ferrihydrite as Proxy. Environmental Science & Technology, 2020, 54, 11990-12000.	4.6	27
7	Large variations in readily-available phosphorus in casts of eight earthworm species are linked to cast properties. Soil Biology and Biochemistry, 2019, 138, 107583.	4.2	30
8	How fertile are earthworm casts? A meta-analysis. Geoderma, 2019, 338, 525-535.	2.3	133
9	What root traits determine grass resistance to phosphorus deficiency in production grassland?. Journal of Plant Nutrition and Soil Science, 2018, 181, 323-335.	1.1	16
10	Exploring the pathways of earthworm-induced phosphorus availability. Geoderma, 2017, 303, 99-109.	2.3	28
11	Temporal variability in trace metal solubility in a paddy soil not reflected in uptake by rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.8	33
12	Iron-rich colloids as carriers of phosphorus in streams: A field-flow fractionation study. Water Research, 2016, 99, 83-90.	5.3	46
13	A framework to measure the availability of engineered nanoparticles in soils: Trends in soil tests and analytical tools. TrAC - Trends in Analytical Chemistry, 2016, 75, 129-140.	5.8	68
14	Solubility of trace metals in two contaminated paddy soils exposed to alternating flooding and drainage. Geoderma, 2016, 261, 59-69.	2.3	81
15	Asymmetric flow field-flow fractionation of manufactured silver nanoparticles spiked into soil solution. Journal of Chromatography A, 2015, 1392, 100-109.	1.8	26
16	In-situ measurement of free trace metal concentrations in a flooded paddy soil using the Donnan Membrane Technique. Geoderma, 2015, 241-242, 59-67.	2.3	25
17	Effects of silver nanoparticles (NMâ€300K) on <i>Lumbricus rubellus</i> earthworms and particle characterization in relevant test matrices including soil. Environmental Toxicology and Chemistry, 2014, 33, 743-752.	2.2	85
18	Characterization of Colloidal Fe from Soils Using Field-Flow Fractionation and Fe K-Edge X-ray Absorption Spectroscopy. Environmental Science & Technology, 2014, 48, 4307-4316.	4.6	75

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19	Do earthworms affect phosphorus availability to grass? A pot experiment. Soil Biology and Biochemistry, 2014, 79, 34-42.	4.2	32
20	Influence of pH on the redox chemistry of metal (hydr)oxides and organic matter in paddy soils. Journal of Soils and Sediments, 2014, 14, 1713-1726.	1.5	87
21	Asymmetric flow field-flow fractionation as a new approach to analyse iron-(hydr)oxide nanoparticles in soil extracts. Geoderma, 2013, 202-203, 134-141.	2.3	57
22	Characterization of Colloidal Phosphorus Species in Drainage Waters from a Clay Soil Using Asymmetric Flow Field-Flow Fractionation. Journal of Environmental Quality, 2013, 42, 464-473.	1.0	45
23	Reducing Phosphorus Loading of Surface Water Using Iron-Coated Sand. Journal of Environmental Quality, 2013, 42, 250-259.	1.0	32
24	Water and Nutrient Transport on a Heavy Clay Soil in a Fluvial Plain in The Netherlands. Journal of Environmental Quality, 2012, 41, 229-241.	1.0	30
25	Emerging Technologies for Removing Nonpoint Phosphorus from Surface Water and Groundwater: Introduction. Journal of Environmental Quality, 2012, 41, 621-627.	1.0	69
26	Use of Reactive Materials to Bind Phosphorus. Journal of Environmental Quality, 2012, 41, 636-646.	1.0	47
27	Effects of soil oven-drying on concentrations and speciation of trace metals and dissolved organic matter in soil solution extracts of sandy soils. Geoderma, 2011, 161, 147-158.	2.3	58
28	Impact of model uncertainty on soil quality standards for cadmium in rice paddy fields. Science of the Total Environment, 2011, 409, 3098-3105.	3.9	50
29	Speciation of Water-Extractable Organic Nutrients in Grassland Soils. Soil Science, 2010, 175, 15-26.	0.9	21
30	Uncertainty Analysis of the Nonideal Competitive Adsorptionâˆ'Donnan Model: Effects of Dissolved Organic Matter Variability on Predicted Metal Speciation in Soil Solution. Environmental Science & Technology, 2010, 44, 1340-1346.	4.6	73
31	Predictions of Spatially Averaged Cadmium Contents in Rice Grains in the Fuyang Valley, P.R. China. Journal of Environmental Quality, 2009, 38, 1126-1136.	1.0	62
32	Characterization of soil heavy metal pools in paddy fields in Taiwan: chemical extraction and solid-solution partitioning. Journal of Soils and Sediments, 2009, 9, 216-228.	1.5	104
33	Prediction of Cadmium uptake by brown rice and derivation of soilâ€"plant transfer models to improve soil protection guidelines. Environmental Pollution, 2009, 157, 2435-2444.	3.7	162
34	Phytoextraction of Phosphorusâ€Enriched Grassland Soils. Journal of Environmental Quality, 2009, 38, 751-761.	1.0	54
35	Influence of EDDS on Metal Speciation in Soil Extracts: Measurement and Mechanistic Multicomponent Modeling. Environmental Science & Technology, 2008, 42, 1123-1130.	4.6	55
36	Feasibility of phytoextraction to remediate cadmium and zinc contaminated soils. Environmental Pollution, 2008, 156, 905-914.	3.7	91

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37	A Feasibility Test to Estimate the Duration of Phytoextraction of Heavy Metals from Polluted Soils. International Journal of Phytoremediation, 2007, 9, 115-132.	1.7	31
38	Phosphorus Movement and Speciation in a Sandy Soil Profile after Long-Term Animal Manure Applications. Journal of Environmental Quality, 2007, 36, 305-315.	1.0	101
39	Predicting the Phytoextraction Duration to Remediate Heavy Metal Contaminated Soils. Water, Air, and Soil Pollution, 2007, 181, 355-371.	1.1	55
40	Mobilization of heavy metals from contaminated paddy soil by EDDS, EDTA, and elemental sulfur. Environmental Geochemistry and Health, 2007, 29, 221-235.	1.8	47
41	COMPARING DIFFERENT EXTRACTION METHODS FOR ESTIMATING PHOSPHORUS SOLUBILITY IN VARIOUS SOIL TYPES. Soil Science, 2006, 171, 103-116.	0.9	42
42	Assessing the bioavailability of dissolved organic phosphorus in pasture and cultivated soils treated with different rates of nitrogen fertiliser. Soil Biology and Biochemistry, 2006, 38, 61-70.	4.2	40
43	Disturbance of Water-Extractable Phosphorus Determination by Colloidal Particles in a Heavy Clay Soil from the Netherlands. Journal of Environmental Quality, 2005, 34, 1446-1450.	1.0	22
44	Phosphorus Desorption Dynamics in Soil and the Link to a Dynamic Concept of Bioavailability. Journal of Environmental Quality, 2004, 33, 1393-1402.	1.0	59
45	Phosphorus Availability for Plant Uptake in a Phosphorusâ€Enriched Noncalcareous Sandy Soil. Journal of Environmental Quality, 2004, 33, 965-975.	1.0	98
46	Wet Chemical and Phosphorusâ€31 Nuclear Magnetic Resonance Analysis of Phosphorus Speciation in a Sandy Soil Receiving Longâ€Term Fertilizer or Animal Manure Applications. Journal of Environmental Quality, 2003, 32, 287-295.	1.0	63
47	Soil phosphorus quantityâ€"intensity relationships to predict increased soil phosphorus loss to overland and subsurface flow. Chemosphere, 2002, 48, 679-687.	4.2	53
48	Organic micropollutants on river sediments from Rio de Janeiro State, Southeast Brazil. Cadernos De Saude Publica, 2002, 18, 477-488.	0.4	12
49	SELECTIVE EXTRACTION OF LABILE PHOSPHORUS USING DIALYSIS MEMBRANE TUBES FILLED WITH HYDROUS IRON HYDROXIDE. Soil Science, 2001, 166, 475-483.	0.9	21
50	Dynamics of Dimethyl Sulfide in a Marine Microbial Mat. Microbial Ecology, 1998, 36, 93-100.	1.4	31