

Jason Kirby

List of Publications by Year in descending order

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77
papers

4,253
citations

109137

35
h-index

110170

64
g-index

77
all docs

77
docs citations

77
times ranked

6015
citing authors

#	ARTICLE	IF	CITATIONS
1	Fate and Risks of Nanomaterials in Aquatic and Terrestrial Environments. <i>Accounts of Chemical Research</i> , 2013, 46, 854-862.	7.6	520
2	Dissolution Kinetics of Macronutrient Fertilizers Coated with Manufactured Zinc Oxide Nanoparticles. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 3991-3998.	2.4	191
3	Solubility and Batch Retention of CeO ₂ Nanoparticles in Soils. <i>Environmental Science & Technology</i> , 2011, 45, 2777-2782.	4.6	190
4	TOXICITY, BIOTRANSFORMATION, AND MODE OF ACTION OF ARSENIC IN TWO FRESHWATER MICROALGAE (CHLORELLA SP. AND MONORAPHIDIUM ARCUATUM). <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2630.	2.2	179
5	Cadmium solubility in paddy soils: Effects of soil oxidation, metal sulfides and competitive ions. <i>Science of the Total Environment</i> , 2011, 409, 1489-1497.	3.9	168
6	Retention and Dissolution of Engineered Silver Nanoparticles in Natural Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 891-902.	1.2	165
7	GEMAS: Establishing geochemical background and threshold for 53 chemical elements in European agricultural soil. <i>Applied Geochemistry</i> , 2018, 88, 302-318.	1.4	143
8	Copper speciation and isotopic fractionation in plants: uptake and translocation mechanisms. <i>New Phytologist</i> , 2013, 199, 367-378.	3.5	133
9	Fe isotope and trace element geochemistry of the Neoproterozoic syn-glacial Rapitan iron formation. <i>Earth and Planetary Science Letters</i> , 2011, 309, 100-112.	1.8	124
10	Biodegradation of rhamnolipid, EDTA and citric acid in cadmium and zinc contaminated soils. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2214-2221.	4.2	122
11	Application of Nontraditional Stable-Isotope Systems to the Study of Sources and Fate of Metals in the Environment. <i>Environmental Science & Technology</i> , 2008, 42, 655-664.	4.6	115
12	Zn isotope evidence for immediate resumption of primary productivity after snowball Earth. <i>Geology</i> , 2013, 41, 27-30.	2.0	98
13	Bioavailability of silver and silver sulfide nanoparticles to lettuce (<i>Lactuca sativa</i>): Effect of agricultural amendments on plant uptake. <i>Journal of Hazardous Materials</i> , 2015, 300, 788-795.	6.5	98
14	Complex Forms of Soil Organic Phosphorus – A Major Component of Soil Phosphorus. <i>Environmental Science & Technology</i> , 2015, 49, 13238-13245.	4.6	97
15	Tissue accumulation and distribution of arsenic compounds in three marine fish species: relationship to trophic position. <i>Applied Organometallic Chemistry</i> , 2002, 16, 108-115.	1.7	89
16	Measurement of water-soluble arsenic species in freeze-dried marine animal tissues by microwave-assisted extraction and HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 838-843.	1.6	82
17	Fate of Zinc Oxide Nanoparticles Coated onto Macronutrient Fertilizers in an Alkaline Calcareous Soil. <i>PLoS ONE</i> , 2015, 10, e0126275.	1.1	82
18	Arsenic concentrations and speciation in the tissues and blood of sea mullet (<i>Mugil cephalus</i>) from Lake Macquarie NSW, Australia. <i>Marine Chemistry</i> , 1999, 68, 169-182.	0.9	79

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19	Copper Isotope Fractionation during Equilibration with Natural and Synthetic Ligands. <i>Environmental Science & Technology</i> , 2014, 48, 8620-8626.	4.6	74
20	DNA Melting and Genotoxicity Induced by Silver Nanoparticles and Graphene. <i>Chemical Research in Toxicology</i> , 2015, 28, 1023-1035.	1.7	73
21	Graphene oxide-Fe(III) composite containing phosphate " A novel slow release fertilizer for improved agriculture management. <i>Journal of Cleaner Production</i> , 2018, 185, 97-104.	4.6	73
22	Selenate-Enriched Urea Granules Are a Highly Effective Fertilizer for Selenium Biofortification of Paddy Rice Grain. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 6037-6044.	2.4	65
23	Selenium, Cadmium, Copper, and Zinc Concentrations in Sediments and Mullet (<i>Mugil cephalus</i>) from the Southern Basin of Lake Macquarie, NSW, Australia. <i>Archives of Environmental Contamination and Toxicology</i> , 2001, 40, 246-256.	2.1	62
24	Arsenic concentrations and speciation in a temperate mangrove ecosystem, NSW, Australia. <i>Applied Organometallic Chemistry</i> , 2002, 16, 192-201.	1.7	59
25	The effect of soil water status on fertiliser, topsoil and subsoil phosphorus utilisation by wheat. <i>Plant and Soil</i> , 2012, 358, 337-348.	1.8	56
26	Complementary Imaging of Silver Nanoparticle Interactions with Green Algae: Dark-Field Microscopy, Electron Microscopy, and Nanoscale Secondary Ion Mass Spectrometry. <i>ACS Nano</i> , 2017, 11, 10894-10902.	7.3	54
27	Arsenic Occurrence and Species in Near-Shore Macroalgae-Feeding Marine Animals. <i>Environmental Science & Technology</i> , 2005, 39, 5999-6005.	4.6	53
28	Arsenic Species Determination in Biological Tissues by HPLC - ICP - MS and HPLC - HG - ICP - MS. <i>Australian Journal of Chemistry</i> , 2004, 57, 957.	0.5	51
29	Selenium Speciation and Bioavailability in Biofortified Products Using Species-Unspecific Isotope Dilution and Reverse Phase Ion Pairing Inductively Coupled Plasma Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1772-1779.	2.4	46
30	Changes in Selenium, Copper, Cadmium, and Zinc Concentrations in Mullet (<i>Mugil cephalus</i>) from the Southern Basin of Lake Macquarie, Australia, in Response to Alteration of Coal-Fired Power Station Fly Ash Handling Procedures. <i>Archives of Environmental Contamination and Toxicology</i> , 2001, 41, 171-181.	2.1	43
31	Incorporating Transgenerational Epigenetic Inheritance into Ecological Risk Assessment Frameworks. <i>Environmental Science & Technology</i> , 2017, 51, 9433-9445.	4.6	42
32	Quantifying the Sensitivity of Soil Microbial Communities to Silver Sulfide Nanoparticles Using Metagenome Sequencing. <i>PLoS ONE</i> , 2016, 11, e0161979.	1.1	41
33	Measurement of Trace Elements in Marine Environmental Samples using Solution ICPMS. Current and Future Applications. <i>Australian Journal of Chemistry</i> , 2003, 56, 103.	0.5	40
34	Arsenic mobility and impact on recovered water quality during aquifer storage and recovery using reclaimed water in a carbonate aquifer. <i>Applied Geochemistry</i> , 2011, 26, 1946-1955.	1.4	37
35	A Predictive Model of the Effects of Aging on Cobalt Fate and Behavior in Soil. <i>Environmental Science & Technology</i> , 2009, 43, 135-141.	4.6	36
36	Characterization and ecological risk assessment of nanoparticulate CeO ₂ as a diesel fuel catalyst. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1896-1905.	2.2	35

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37	The use of diffuse reflectance mid-infrared spectroscopy for the prediction of the concentration of chemical elements estimated by X-ray fluorescence in agricultural and grazing European soils. <i>Applied Geochemistry</i> , 2013, 29, 135-143.	1.4	32
38	Long-term exposure to commercially available sunscreens containing nanoparticles of TiO ₂ and ZnO revealed no biological impact in a hairless mouse model. <i>Particle and Fibre Toxicology</i> , 2015, 13, 44.	2.8	32
39	Contrasting Effects of Nanoparticle Binding on Protein Denaturation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22069-22078.	1.5	30
40	Thermostability and reversibility of silver nanoparticle-protein binding. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1728-1739.	1.3	30
41	Engineering the Slow Photon Effect in Photoactive Nanoporous Anodic Alumina Gradient-Index Filters for Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24124-24136.	4.0	30
42	Potential Availability of Fertilizer Selenium in Field Capacity and Submerged Soils. <i>Soil Science Society of America Journal</i> , 2010, 74, 1589-1596.	1.2	29
43	Behaviour of fullerenes (C ₆₀) in the terrestrial environment: Potential release from biosolids-amended soils. <i>Journal of Hazardous Materials</i> , 2013, 262, 496-503.	6.5	27
44	Distribution and speciation of bromine in mammalian tissue and fluids by X-ray fluorescence imaging and X-ray absorption spectroscopy. <i>Metallomics</i> , 2015, 7, 756-765.	1.0	25
45	Influence of soil properties and soil leaching on the toxicity of ionic silver to plants. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 2503-2512.	2.2	24
46	Imaging nanoparticle-algae interactions in three dimensions using Cytoviva microscopy. <i>Journal of Microscopy</i> , 2015, 257, 166-169.	0.8	24
47	The effect of soil properties on the toxicity of silver to the soil nitrification process. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 1170-1178.	2.2	23
48	GEMAS: CNS concentrations and C/N ratios in European agricultural soil. <i>Science of the Total Environment</i> , 2018, 627, 975-984.	3.9	22
49	Ecotoxicology of manufactured graphene oxide nanomaterials and derivation of preliminary guideline values for freshwater environments. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1340-1348.	2.2	22
50	Fullerol as a Potential Pathway for Mineralization of Fullerene Nanoparticles in Biosolid-Amended Soils. <i>Environmental Science and Technology Letters</i> , 2016, 3, 7-12.	3.9	19
51	Is rhamnolipid biosurfactant useful in cadmium phytoextraction?. <i>Journal of Soils and Sediments</i> , 2010, 10, 1289-1299.	1.5	18
52	Dry Soil Reduces Fertilizer Phosphorus and Zinc Diffusion but Not Bioavailability. <i>Soil Science Society of America Journal</i> , 2012, 76, 1301-1310.	1.2	18
53	Prediction of the concentration of chemical elements extracted by aqua regia in agricultural and grazing European soils using diffuse reflectance mid-infrared spectroscopy. <i>Applied Geochemistry</i> , 2013, 39, 33-42.	1.4	18
54	Lead, antimony and arsenic in dissolved and colloidal fractions from an amended shooting-range soil as characterised by multi-stage tangential ultrafiltration and centrifugation. <i>Environmental Chemistry</i> , 2012, 9, 462.	0.7	17

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55	A Novel Technique to Determine Cobalt Exchangeability in Soils Using Isotope Dilution. <i>Environmental Science & Technology</i> , 2008, 42, 140-146.	4.6	15
56	Potential ecological risks of metal(loid)s in riverine floodplain soils. <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 722-731.	2.9	15
57	Potential carcinogenic and non-carcinogenic health hazards of metal(loid)s in food grains. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17032-17042.	2.7	15
58	GEMAS: Geochemical background and mineral potential of emerging tech-critical elements in Europe revealed from low-sampling density geochemical mapping. <i>Applied Geochemistry</i> , 2019, 111, 104425.	1.4	14
59	Increased Selenium Concentrations in Seronorm Trace Elements Serum (Level 2). <i>Clinical Chemistry</i> , 2004, 50, 1481-1482.	1.5	13
60	Release of Dissolved Cadmium and Sulfur Nanoparticles from Oxidizing Sulfide Minerals. <i>Soil Science Society of America Journal</i> , 2011, 75, 842-854.	1.2	13
61	Copper Lability in Soils Subjected to Intermittent Submergence. <i>Journal of Environmental Quality</i> , 2010, 39, 2047-2053.	1.0	12
62	Cobalt Distribution and Speciation: Effect of Aging, Intermittent Submergence, In Situ Rice Roots. <i>Journal of Environmental Quality</i> , 2011, 40, 679-695.	1.0	12
63	A tiered approach. <i>Nature Nanotechnology</i> , 2013, 8, 307-308.	15.6	12
64	Fate and dynamics of metal precipitates arising from acid drainage discharges to a river system. <i>Chemosphere</i> , 2018, 212, 811-820.	4.2	11
65	A stable isotope methodology for measurement of soil applied zinc fertilizer recovery in durum wheat (<i>Triticum durum</i>). <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 756-763.	1.1	9
66	Influence of submergence and subsequent drainage on the partitioning and lability of added selenium fertilizers in a sulphur containing Fluvisol. <i>European Journal of Soil Science</i> , 2012, 63, 514-522.	1.8	8
67	Gold Nanomaterial Uptake from Soil Is Not Increased by Arbuscular Mycorrhizal Colonization of <i>Solanum Lycopersicum</i> (Tomato). <i>Nanomaterials</i> , 2016, 6, 68.	1.9	8
68	GEMAS: Geochemical distribution of Mg in agricultural soil of Europe. <i>Journal of Geochemical Exploration</i> , 2021, 221, 106706.	1.5	8
69	Groundwater-surface water connectivity in a chain of ponds semiarid river. <i>Hydrological Processes</i> , 2021, 35, e14129.	1.1	8
70	Aseptic hydroponics to assess rhamnolipid-Cd and rhamnolipid-Zn bioavailability for sunflower (<i>Helianthus annuus</i>): a phytoextraction mechanism study. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21327-21335.	2.7	7
71	Optimisation of phosphate loading on graphene oxide-Fe(III) composites possibilities for engineering slow release fertilisers. <i>New Journal of Chemistry</i> , 2019, 43, 8580-8589.	1.4	6
72	Arsenic sequestration in gold mine wastes under changing pH and experimental rewetting cycles. <i>Applied Geochemistry</i> , 2021, 124, 104789.	1.4	5

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73	Method for extraction and analysis of per- and poly-fluoroalkyl substances in contaminated asphalt. <i>Analytical Methods</i> , 2022, 14, 1678-1689.	1.3	5
74	Semiquantitative Proteomics Enables Mapping of Murine Neutrophil Dynamics following Lethal Influenza Virus Infection. <i>Journal of Immunology</i> , 2019, 203, 1064-1075.	0.4	2
75	Measurement of Trace Elements in Marine Environmental Samples Using Solution ICPMS. Current and Future Applications. <i>ChemInform</i> , 2003, 34, no.	0.1	0
76	Measurement of Total Arsenic and Arsenic Species in Seafood by Q ICP-MS. , 0, , 567-595.		0
77	RESPONSES OF TOMATO VAR. TINY TOM TO APPLICATION OF COPPER AND ZINC FERTILIZERS IN THREE LIMED TROPICAL PEAT SOILS OF SARAWAK. <i>Journal of Plant Nutrition</i> , 2013, 36, 1590-1604.	0.9	0