

Minori Uchimiya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

5,867
citations

35
h-index

75
g-index

75
ext. papers

6,585
ext. citations

6
avg, IF

6.04
L-index

#	Paper	IF	Citations
74	Rhizospheric pore-water content predicts the biochar-attenuated accumulation, translocation, and toxicity of cadmium to lettuce. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111675	7	3
73	Juice chemical properties of 24 sorghum cultivars under varying levels of sugarcane aphid (<i>Melanaphis sacchari</i>) infestation. <i>Arthropod-Plant Interactions</i> , 2021 , 15, 707-719	2.2	1
72	Chemical Speciation, Plant Uptake, and Toxicity of Heavy Metals in Agricultural Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 12856-12869	5.7	35
71	Proton-Coupled Electron Transfers of Defense Phytochemicals in Sorghum ((L.) Moench). <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 12978-12983	5.7	3
70	Soil microbiome-induced changes in the priming effects of C-labelled substrates from rice residues. <i>Science of the Total Environment</i> , 2020 , 726, 138562	10.2	5
69	Effect of amendments on soil Cd sorption and trophic transfer of Cd and mineral nutrition along the food chain. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 189, 110045	7	10
68	Influence of summer fallow on aromatic secondary products in sugarcane (<i>Saccharum</i> spp. hybrids). <i>Journal of Agriculture and Food Research</i> , 2020 , 2, 100064	2.6	1
67	Electroactivity of polyphenols in sweet sorghum (<i>Sorghum bicolor</i> (L.) Moench) cultivars. <i>PLoS ONE</i> , 2020 , 15, e0234509	3.7	1
66	Rapid Data Analytics to Relate Sugarcane Aphid [(<i>Melanaphis sacchari</i> (Zehntner))] Population and Damage on Sorghum (<i>Sorghum bicolor</i> (L.) Moench). <i>Scientific Reports</i> , 2019 , 9, 370	4.9	5
65	Selective oxidation of colour-inducing constituents in raw sugar cane juice with potassium permanganate. <i>Food Chemistry</i> , 2019 , 298, 125036	8.5	4
64	Particle Size- and Crystallinity-Controlled Phosphorus Release from Biochars. <i>Energy & Fuels</i> , 2019 , 33, 5343-5351	4.1	6
63	Three-Year Field Observation of Biochar-Mediated Changes in Soil Organic Carbon and Microbial Activity. <i>Journal of Environmental Quality</i> , 2019 , 48, 717-726	3.4	6
62	Accumulation of Carboxylate and Aromatic Fluorophores by a Pest-Resistant Sweet Sorghum [(L.) Moench] Genotype. <i>ACS Omega</i> , 2019 , 4, 20519-20529	3.9	4
61	Effects of soil amendments on cadmium transfer along the lettuce-snail food chain: Influence of chemical speciation. <i>Science of the Total Environment</i> , 2019 , 649, 801-807	10.2	8
60	Prediction of Carboxylic and Polyphenolic Chemical Feedstock Quantities in Sweet Sorghum. <i>Energy & Fuels</i> , 2018 , 32, 5252-5263	4.1	5
59	Bioaccumulation of CeO Nanoparticles by Earthworms in Biochar-Amended Soil: A Synchrotron Microspectroscopy Study. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 6609-6618	5.7	18
58	Detection of Biochar Carbon by Fluorescence and Near-Infrared-Based Chemometrics. <i>Aquatic Geochemistry</i> , 2018 , 24, 345-361	1.7	2

57	In Situ and Ex Situ 2D Infrared/Fluorescence Correlation Monitoring of Surface Functionality and Electron Density of Biochars. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8055-8062	8.3	6
56	Roles of reversible and irreversible aggregation in sugar processing. <i>Critical Reviews in Food Science and Nutrition</i> , 2017 , 57, 1206-1214	11.5	1
55	Exposure of agricultural crops to nanoparticle CeO in biochar-amended soil. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 147-157	5.4	43
54	Polycyclic aromatic hydrocarbons and volatile organic compounds in biochar and biochar-amended soil: a review. <i>GCB Bioenergy</i> , 2017 , 9, 990-1004	5.6	78
53	Structural Transformation of Biochar Black Carbon by C Superstructure: Environmental Implications. <i>Scientific Reports</i> , 2017 , 7, 11787	4.9	3
52	Chemical Analysis of Fermentable Sugars and Secondary Products in 23 Sweet Sorghum Cultivars. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 7629-7637	5.7	12
51	Surface Interactions between Gold Nanoparticles and Biochar. <i>Scientific Reports</i> , 2017 , 7, 5027	4.9	19
50	Electrochemical Evaluation of Sweet Sorghum Fermentable Sugar Bioenergy Feedstock. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7352-7364	8.3	8
49	Global demand for rare earth resources and strategies for green mining. <i>Environmental Research</i> , 2016 , 150, 182-190	7.9	254
48	Structure-reactivity relationships between the fluorescent chromophores and antioxidant activity of grain and sweet sorghum seeds. <i>Food Science and Nutrition</i> , 2016 , 4, 811-817	3.2	4
47	Field-scale fluorescence fingerprinting of biochar-borne dissolved organic carbon. <i>Journal of Environmental Management</i> , 2016 , 169, 184-90	7.9	30
46	Across-Phase Biomass Pyrolysis Stoichiometry, Energy Balance, and Product Formation Kinetics. <i>Energy & Fuels</i> , 2016 , 30, 6537-6546	4.1	9
45	The micro-environmental impact of volatile organic compound emissions from large-scale assemblies of people in a confined space. <i>Environmental Research</i> , 2016 , 151, 304-312	7.9	11
44	Characterization of narrow micropores in almond shell biochars by nitrogen, carbon dioxide, and hydrogen adsorption. <i>Industrial Crops and Products</i> , 2015 , 67, 33-40	5.9	15
43	Mechanisms of antimony adsorption onto soybean stover-derived biochar in aqueous solutions. <i>Journal of Environmental Management</i> , 2015 , 151, 443-9	7.9	71
42	Dissolved Phosphorus Speciation of Flash Carbonization, Slow Pyrolysis, and Fast Pyrolysis Biochars. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1642-1649	8.3	63
41	Influence of Carbonization Methods on the Aromaticity of Pyrogenic Dissolved Organic Carbon. <i>Energy & Fuels</i> , 2015 , 29, 2503-2513	4.1	20
40	Heteroaggregation of Cerium Oxide Nanoparticles and Nanoparticles of Pyrolyzed Biomass. <i>Environmental Science & Technology</i> , 2015 , 49, 13294-303	10.3	64

39	Fate of Higher-Mass Elements and Surface Functional Groups during the Pyrolysis of Waste Pecan Shell. <i>Energy & Fuels</i> , 2015 , 29, 8095-8101	4.1	14
38	New Applications of X-ray Tomography in Pyrolysis of Biomass: Biochar Imaging. <i>Energy & Fuels</i> , 2015 , 29, 1628-1634	4.1	27
37	Uncovering surface area and micropores in almond shell biochars by rainwater wash. <i>Chemosphere</i> , 2014 , 111, 129-34	8.4	29
36	Influence of pH, Ionic Strength, and Multidentate Ligand on the Interaction of CdII with Biochars. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2019-2027	8.3	49
35	Pyrolysis temperature-dependent changes in dissolved phosphorus speciation of plant and manure biochars. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 1802-9	5.7	93
34	Intrinsic Fluorescence Excitation-Emission Matrix Spectral Features of Cottonseed Protein Fractions and the Effects of Denaturants. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2014 , 91, 1489-1497	1.8	26
33	Influence of post-treatment strategies on the properties of activated chars from broiler manure. <i>Chemosphere</i> , 2014 , 95, 96-104	8.4	29
32	Comparison of Biochar Formation from Various Agricultural By-Products Using FTIR Spectroscopy. <i>Modern Applied Science</i> , 2014 , 9,	1.3	63
31	Pyrolysis temperature-dependent release of dissolved organic carbon from plant, manure, and biorefinery wastes. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 84-94	6	105
30	In situ and ex situ spectroscopic monitoring of biochar's surface functional groups. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 102, 53-59	6	93
29	Solubility of lead and copper in biochar-amended small arms range soils: influence of soil organic carbon and pH. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 7679-88	5.7	44
28	Activated biochar removes 100 % dibromochloropropane from field well water. <i>Environmental Chemistry Letters</i> , 2013 , 11, 271-275	13.3	38
27	Mineral Composition of Cottonseed is Affected by Fertilization Management Practices. <i>Agronomy Journal</i> , 2013 , 105, 341-350	2.2	40
26	Impact of pyrolysis temperature and manure source on physicochemical characteristics of biochar. <i>Bioresource Technology</i> , 2012 , 107, 419-28	11	825
25	Lead retention by broiler litter biochars in small arms range soil: impact of pyrolysis temperature. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 5035-44	5.7	104
24	Sorption of triazine and organophosphorus pesticides on soil and biochar. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 2989-97	5.7	81
23	Retention of heavy metals by carboxyl functional groups of biochars in small arms range soil. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 1798-809	5.7	199
22	Retention of heavy metals in a Typic Kandiodult amended with different manure-based biochars. <i>Journal of Environmental Quality</i> , 2012 , 41, 1138-49	3.4	58

21	Synthesis and characterization of a novel phosphorus-nitrogen-containing flame retardant and its application for textile. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 1036-1044	3.2	39
20	Development of an environmentally friendly halogen-free phosphorus-nitrogen bond flame retardant for cotton fabrics. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 1555-1563	3.2	64
19	Influence of pyrolysis temperature on biochar property and function as a heavy metal sorbent in soil. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 2501-10	5.7	535
18	Influence of soil properties on heavy metal sequestration by biochar amendment: 1. Copper sorption isotherms and the release of cations. <i>Chemosphere</i> , 2011 , 82, 1431-7	8.4	224
17	Influence of soil properties on heavy metal sequestration by biochar amendment: 2. Copper desorption isotherms. <i>Chemosphere</i> , 2011 , 82, 1438-47	8.4	38
16	Qualitative analysis of volatile organic compounds on biochar. <i>Chemosphere</i> , 2011 , 85, 869-82	8.4	323
15	Thermal response and recyclability of poly(stearylacrylate-co-ethylene glycol dimethacrylate) gel as a VOCs absorbent. <i>Polymer Bulletin</i> , 2011 , 67, 915-926	2.4	10
14	Flame retardant properties of triazine phosphonates derivative with cotton fabric. <i>Fibers and Polymers</i> , 2011 , 12, 334-339	2	55
13	Screening biochars for heavy metal retention in soil: role of oxygen functional groups. <i>Journal of Hazardous Materials</i> , 2011 , 190, 432-41	12.8	443
12	Sorption of deisopropylatrazine on broiler litter biochars. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 12350-6	5.7	114
11	Immobilization of heavy metal ions (CuII, CdII, NiII, and PbII) by broiler litter-derived biochars in water and soil. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 5538-44	5.7	554
10	Reduction of Substituted p-Benzoquinones by FeII Near Neutral pH. <i>Aquatic Geochemistry</i> , 2010 , 16, 1731-188	9	
9	Reductive Transformation of 2,4-Dinitrotoluene: Roles of Iron and Natural Organic Matter. <i>Aquatic Geochemistry</i> , 2010 , 16, 547-562	1.7	10
8	One-electron standard reduction potentials of nitroaromatic and cyclic nitramine explosives. <i>Environmental Pollution</i> , 2010 , 158, 3048-53	9.3	35
7	Contaminant immobilization and nutrient release by biochar soil amendment: roles of natural organic matter. <i>Chemosphere</i> , 2010 , 80, 935-40	8.4	340
6	Iron(III) Bioreduction in Soil in the Presence of Added Humic Substances. <i>Soil Science Society of America Journal</i> , 2009 , 73, 65-71	2.5	54
5	Reversible redox chemistry of quinones: impact on biogeochemical cycles. <i>Chemosphere</i> , 2009 , 77, 451-88.4	132	
4	Fingerprinting localized dioxin contamination: Ichihara Anchorage case. <i>Environmental Science & Technology</i> , 2007 , 41, 3864-70	10.3	25

3	Time trends in sources and dechlorination pathways of dioxins in agrochemically contaminated sediments. <i>Environmental Science & Technology</i> , 2007 , 41, 2703-10	10.3	19
2	Aqueous oxidation of substituted dihydroxybenzenes by substituted benzoquinones. <i>Environmental Science & Technology</i> , 2006 , 40, 3515-21	10.3	24
1	Redox reactions between iron and quinones: Thermodynamic constraints. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 1388-1401	5.5	75