

# Minori Uchimiya

## List of Publications by Citations

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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	Impact of pyrolysis temperature and manure source on physicochemical characteristics of biochar. <i>Bioresource Technology</i> , <b>2012</b> , 107, 419-28	11	825
73	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> , <b>2010</b> , 58, 5538-44	5.7	554
72	Influence of pyrolysis temperature on biochar property and function as a heavy metal sorbent in soil. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 2501-10	5.7	535
71	Screening biochars for heavy metal retention in soil: role of oxygen functional groups. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 190, 432-41	12.8	443
70	Contaminant immobilization and nutrient release by biochar soil amendment: roles of natural organic matter. <i>Chemosphere</i> , <b>2010</b> , 80, 935-40	8.4	340
69	Qualitative analysis of volatile organic compounds on biochar. <i>Chemosphere</i> , <b>2011</b> , 85, 869-82	8.4	323
68	Global demand for rare earth resources and strategies for green mining. <i>Environmental Research</i> , <b>2016</b> , 150, 182-190	7.9	254
67	Influence of soil properties on heavy metal sequestration by biochar amendment: 1. Copper sorption isotherms and the release of cations. <i>Chemosphere</i> , <b>2011</b> , 82, 1431-7	8.4	224
66	Retention of heavy metals by carboxyl functional groups of biochars in small arms range soil. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 1798-809	5.7	199
65	Reversible redox chemistry of quinones: impact on biogeochemical cycles. <i>Chemosphere</i> , <b>2009</b> , 77, 451-88.4	8.4	132
64	Sorption of deisopropylatrazine on broiler litter biochars. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 12350-6	5.7	114
63	Pyrolysis temperature-dependent release of dissolved organic carbon from plant, manure, and biorefinery wastes. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2013</b> , 104, 84-94	6	105
62	Lead retention by broiler litter biochars in small arms range soil: impact of pyrolysis temperature. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 5035-44	5.7	104
61	Pyrolysis temperature-dependent changes in dissolved phosphorus speciation of plant and manure biochars. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 1802-9	5.7	93
60	In situ and ex situ spectroscopic monitoring of biochar's surface functional groups. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2013</b> , 102, 53-59	6	93
59	Sorption of triazine and organophosphorus pesticides on soil and biochar. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 2989-97	5.7	81
58	Polycyclic aromatic hydrocarbons and volatile organic compounds in biochar and biochar-amended soil: a review. <i>GCB Bioenergy</i> , <b>2017</b> , 9, 990-1004	5.6	78

57	Redox reactions between iron and quinones: Thermodynamic constraints. <i>Geochimica Et Cosmochimica Acta</i> , <b>2006</b> , 70, 1388-1401	5.5	75
56	Mechanisms of antimony adsorption onto soybean stover-derived biochar in aqueous solutions. <i>Journal of Environmental Management</i> , <b>2015</b> , 151, 443-9	7.9	71
55	Heteroaggregation of Cerium Oxide Nanoparticles and Nanoparticles of Pyrolyzed Biomass. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 13294-303	10.3	64
54	Development of an environmentally friendly halogen-free phosphorus/nitrogen bond flame retardant for cotton fabrics. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1555-1563	3.2	64
53	Dissolved Phosphorus Speciation of Flash Carbonization, Slow Pyrolysis, and Fast Pyrolysis Biochars. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1642-1649	8.3	63
52	Comparison of Biochar Formation from Various Agricultural By-Products Using FTIR Spectroscopy. <i>Modern Applied Science</i> , <b>2014</b> , 9,	1.3	63
51	Retention of heavy metals in a Typic Kandiuult amended with different manure-based biochars. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 1138-49	3.4	58
50	Flame retardant properties of triazine phosphonates derivative with cotton fabric. <i>Fibers and Polymers</i> , <b>2011</b> , 12, 334-339	2	55
49	Iron(III) Bioreduction in Soil in the Presence of Added Humic Substances. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 65-71	2.5	54
48	Influence of pH, Ionic Strength, and Multidentate Ligand on the Interaction of CdII with Biochars. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2019-2027	8.3	49
47	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> , <b>2013</b> , 61, 7679-88	5.7	44
46	Exposure of agricultural crops to nanoparticle CeO in biochar-amended soil. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 147-157	5.4	43
45	Mineral Composition of Cottonseed is Affected by Fertilization Management Practices. <i>Agronomy Journal</i> , <b>2013</b> , 105, 341-350	2.2	40
44	Synthesis and characterization of a novel phosphorus/nitrogen-containing flame retardant and its application for textile. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1036-1044	3.2	39
43	Activated biochar removes 100 % dibromochloropropane from field well water. <i>Environmental Chemistry Letters</i> , <b>2013</b> , 11, 271-275	13.3	38
42	Influence of soil properties on heavy metal sequestration by biochar amendment: 2. Copper desorption isotherms. <i>Chemosphere</i> , <b>2011</b> , 82, 1438-47	8.4	38
41	Chemical Speciation, Plant Uptake, and Toxicity of Heavy Metals in Agricultural Soils. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 12856-12869	5.7	35
40	One-electron standard reduction potentials of nitroaromatic and cyclic nitramine explosives. <i>Environmental Pollution</i> , <b>2010</b> , 158, 3048-53	9.3	35

39	Field-scale fluorescence fingerprinting of biochar-borne dissolved organic carbon. <i>Journal of Environmental Management</i> , <b>2016</b> , 169, 184-90	7.9	30
38	Uncovering surface area and micropores in almond shell biochars by rainwater wash. <i>Chemosphere</i> , <b>2014</b> , 111, 129-34	8.4	29
37	Influence of post-treatment strategies on the properties of activated chars from broiler manure. <i>Chemosphere</i> , <b>2014</b> , 95, 96-104	8.4	29
36	New Applications of X-ray Tomography in Pyrolysis of Biomass: Biochar Imaging. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 1628-1634	4.1	27
35	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> , <b>2014</b> , 91, 1489-1497	1.8	26
34	Fingerprinting localized dioxin contamination: Ichihara Anchorage case. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3864-70	10.3	25
33	Aqueous oxidation of substituted dihydroxybenzenes by substituted benzoquinones. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 3515-21	10.3	24
32	Influence of Carbonization Methods on the Aromaticity of Pyrogenic Dissolved Organic Carbon. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 2503-2513	4.1	20
31	Surface Interactions between Gold Nanoparticles and Biochar. <i>Scientific Reports</i> , <b>2017</b> , 7, 5027	4.9	19
30	Time trends in sources and dechlorination pathways of dioxins in agrochemically contaminated sediments. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 2703-10	10.3	19
29	Bioaccumulation of CeO Nanoparticles by Earthworms in Biochar-Amended Soil: A Synchrotron Microspectroscopy Study. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 6609-6618	5.7	18
28	Characterization of narrow micropores in almond shell biochars by nitrogen, carbon dioxide, and hydrogen adsorption. <i>Industrial Crops and Products</i> , <b>2015</b> , 67, 33-40	5.9	15
27	Fate of Higher-Mass Elements and Surface Functional Groups during the Pyrolysis of Waste Pecan Shell. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 8095-8101	4.1	14
26	Chemical Analysis of Fermentable Sugars and Secondary Products in 23 Sweet Sorghum Cultivars. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 7629-7637	5.7	12
25	The micro-environmental impact of volatile organic compound emissions from large-scale assemblies of people in a confined space. <i>Environmental Research</i> , <b>2016</b> , 151, 304-312	7.9	11
24	Thermal response and recyclability of poly(stearylacrylate-co-ethylene glycol dimethacrylate) gel as a VOCs absorbent. <i>Polymer Bulletin</i> , <b>2011</b> , 67, 915-926	2.4	10
23	Reductive Transformation of 2,4-Dinitrotoluene: Roles of Iron and Natural Organic Matter. <i>Aquatic Geochemistry</i> , <b>2010</b> , 16, 547-562	1.7	10
22	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> , <b>2020</b> , 189, 110045	7	10

21	Reduction of Substituted p-Benzoquinones by Fell Near Neutral pH. <i>Aquatic Geochemistry</i> , <b>2010</b> , 16, 173-188	1.8	9
20	Across-Phase Biomass Pyrolysis Stoichiometry, Energy Balance, and Product Formation Kinetics. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 6537-6546	4.1	9
19	Electrochemical Evaluation of Sweet Sorghum Fermentable Sugar Bioenergy Feedstock. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7352-7364	8.3	8
18	Effects of soil amendments on cadmium transfer along the lettuce-snail food chain: Influence of chemical speciation. <i>Science of the Total Environment</i> , <b>2019</b> , 649, 801-807	10.2	8
17	Particle Size- and Crystallinity-Controlled Phosphorus Release from Biochars. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 5343-5351	4.1	6
16	Three-Year Field Observation of Biochar-Mediated Changes in Soil Organic Carbon and Microbial Activity. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 717-726	3.4	6
15	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> , <b>2018</b> , 6, 8055-8062	8.3	6
14	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> , <b>2019</b> , 9, 370	4.9	5
13	Soil microbiome-induced changes in the priming effects of C-labelled substrates from rice residues. <i>Science of the Total Environment</i> , <b>2020</b> , 726, 138562	10.2	5
12	Prediction of Carboxylic and Polyphenolic Chemical Feedstock Quantities in Sweet Sorghum. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 5252-5263	4.1	5
11	Selective oxidation of colour-inducing constituents in raw sugar cane juice with potassium permanganate. <i>Food Chemistry</i> , <b>2019</b> , 298, 125036	8.5	4
10	Structure-reactivity relationships between the fluorescent chromophores and antioxidant activity of grain and sweet sorghum seeds. <i>Food Science and Nutrition</i> , <b>2016</b> , 4, 811-817	3.2	4
9	Accumulation of Carboxylate and Aromatic Fluorophores by a Pest-Resistant Sweet Sorghum [(L.) Moench] Genotype. <i>ACS Omega</i> , <b>2019</b> , 4, 20519-20529	3.9	4
8	Proton-Coupled Electron Transfers of Defense Phytochemicals in Sorghum ( (L.) Moench). <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 12978-12983	5.7	3
7	Structural Transformation of Biochar Black Carbon by C Superstructure: Environmental Implications. <i>Scientific Reports</i> , <b>2017</b> , 7, 11787	4.9	3
6	Rhizospheric pore-water content predicts the biochar-attenuated accumulation, translocation, and toxicity of cadmium to lettuce. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 208, 111675	7	3
5	Detection of Biochar Carbon by Fluorescence and Near-Infrared-Based Chemometrics. <i>Aquatic Geochemistry</i> , <b>2018</b> , 24, 345-361	1.7	2
4	Roles of reversible and irreversible aggregation in sugar processing. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2017</b> , 57, 1206-1214	11.5	1

3	Influence of summer fallow on aromatic secondary products in sugarcane ( <i>Saccharum</i> spp. hybrids). <i>Journal of Agriculture and Food Research</i> , <b>2020</b> , 2, 100064	2.6	1
2	Electroactivity of polyphenols in sweet sorghum ( <i>Sorghum bicolor</i> (L.) Moench) cultivars. <i>PLoS ONE</i> , <b>2020</b> , 15, e0234509	3.7	1
1	Juice chemical properties of 24 sorghum cultivars under varying levels of sugarcane aphid ( <i>Melanaphis sacchari</i> ) infestation. <i>Arthropod-Plant Interactions</i> , <b>2021</b> , 15, 707-719	2.2	1