

Mark G Johnson

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,601
citations

201385

27
h-index

128067

60
g-index

65
all docs

65
docs citations

65
times ranked

5732
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Molecular Structure of Plant Biomass-Derived Black Carbon (Biochar). <i>Environmental Science & Technology</i> , 2010, 44, 1247-1253.	4.6	2,267
2	Water uptake in biochars: The roles of porosity and hydrophobicity. <i>Biomass and Bioenergy</i> , 2014, 61, 196-205.	2.9	351
3	Designing relevant biochars as soil amendments using lignocellulosic-based and manure-based feedstocks. <i>Journal of Soils and Sediments</i> , 2014, 14, 330-343.	1.5	138
4	Elevated CO ₂ and conifer roots: effects on growth, life span and turnover. <i>New Phytologist</i> , 2000, 147, 87-103.	3.5	137
5	Germination and early plant development of ten plant species exposed to titanium dioxide and cerium oxide nanoparticles. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 2223-2229.	2.2	121
6	Remediation of an acidic mine spoil: <i>Miscanthus</i> biochar and lime amendment affects metal availability, plant growth, and soil enzyme activity. <i>Chemosphere</i> , 2018, 205, 709-718.	4.2	91
7	A Versatile Sunlit Controlled-Environment Facility for Studying Plant and Soil Processes. <i>Journal of Environmental Quality</i> , 1996, 25, 614-625.	1.0	84
8	Biochar compost blends facilitate switchgrass growth in mine soils by reducing Cd and Zn bioavailability. <i>Biochar</i> , 2019, 1, 97-114.	6.2	74
9	Effects of elevated CO ₂ and N fertilization on soil respiration from ponderosa pine (<i>Pinus ponderosa</i>) in open-top chambers. <i>Canadian Journal of Forest Research</i> , 1995, 25, 1243-1251.	0.8	72
10	Effects of elevated CO ₂ and nitrogen on the synchrony of shoot and root growth in ponderosa pine. <i>Tree Physiology</i> , 1996, 16, 905-914.	1.4	70
11	Elevated CO ₂ and temperature alter nitrogen allocation in Douglas-fir. <i>Global Change Biology</i> , 2003, 9, 1038-1050.	4.2	67
12	Biochars impact on water infiltration and water quality through a compacted subsoil layer. <i>Chemosphere</i> , 2016, 142, 160-167.	4.2	67
13	Title is missing!. <i>Plant and Soil</i> , 2001, 229, 259-270.	1.8	66
14	Title is missing!. <i>Plant and Soil</i> , 1997, 189, 275-287.	1.8	59
15	Whole-seedling biomass allocation, leaf area, and tissue chemistry for Douglas-fir exposed to elevated CO ₂ and temperature for 4 years. <i>Canadian Journal of Forest Research</i> , 2003, 33, 269-278.	0.8	56
16	Ecological and water quality consequences of nutrient addition for salmon restoration in the Pacific Northwest. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 18-26.	1.9	56
17	Effects of elevated CO ₂ and N fertilization on fine root dynamics and fungal growth in seedling <i>Pinus ponderosa</i> . <i>Environmental and Experimental Botany</i> , 1997, 37, 73-83.	2.0	55
18	Effects of elevated CO ₂ on fine root dynamics in a Mojave Desert community: a FACE study. <i>Global Change Biology</i> , 2006, 12, 61-73.	4.2	45

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19	Intergenerational responses of wheat (<i>Triticum aestivum</i> L.) to cerium oxide nanoparticles exposure. <i>Environmental Science: Nano</i> , 2017, 4, 700-711.	2.2	43
20	Title is missing!. <i>Plant and Soil</i> , 1997, 190, 19-28.	1.8	40
21	Effects of Elevated CO ₂ and Nitrogen on Ponderosa Pine Fine Roots and Associated Fungal Components. <i>Journal of Biogeography</i> , 1995, 22, 281.	1.4	37
22	Estimates of Douglas-fir fine root production and mortality from minirhizotrons. <i>Forest Ecology and Management</i> , 2005, 204, 359-370.	1.4	34
23	Cerium oxide nanoparticles transformation at the root-soil interface of barley (<i>Hordeum</i>) Tj ETQq1 1 0.784314,rgBT /Overlock 10	2.2	34
24	Potential for metal contamination by direct sonication of nanoparticle suspensions. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 889-893.	2.2	32
25	Concentration and Release of Phosphorus and Potassium From Lignocellulosic- and Manure-Based Biochars for Fertilizer Reuse. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	1.8	31
26	Effects of elevated CO ₂ and O ₃ on soil respiration under ponderosa pine. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1764-1778.	4.2	30
27	Relating fine root biomass to soil and climate conditions in the Pacific Northwest. <i>Forest Ecology and Management</i> , 2007, 242, 195-208.	1.4	27
28	Phytostabilization of acidic mine tailings with biochar, biosolids, lime, and locally-sourced microbial inoculum: Do amendment mixtures influence plant growth, tailing chemistry, and microbial composition?. <i>Applied Soil Ecology</i> , 2021, 165, 103962.	2.1	27
29	CO ₂ and N-fertilization effects on fine-root length, production, and mortality: a 4-year ponderosa pine study. <i>Oecologia</i> , 2006, 148, 517-525.	0.9	25
30	Effects of Biochar Blends on Microbial Community Composition in Two Coastal Plain Soils. <i>Agriculture (Switzerland)</i> , 2015, 5, 1060-1075.	1.4	23
31	Phytostabilization of Zn and Cd in Mine Soil Using Corn in Combination with Biochars and Manure-Based Compost. <i>Environments - MDPI</i> , 2019, 6, 69.	1.5	21
32	Optimizing minirhizotron sample frequency for an evergreen and deciduous tree species. <i>New Phytologist</i> , 2003, 157, 155-161.	3.5	20
33	Can Biochar Covers Reduce Emissions from Manure Lagoons While Capturing Nutrients?. <i>Journal of Environmental Quality</i> , 2017, 46, 659-666.	1.0	19
34	Effect of organic matter concentration and characteristics on mercury mobilization and methylmercury production at an abandoned mine site. <i>Environmental Pollution</i> , 2021, 271, 116369.	3.7	18
35	Bole water content shows little seasonal variation in century-old Douglas-fir trees. <i>Tree Physiology</i> , 2007, 27, 737-747.	1.4	17
36	Elevated CO ₂ and temperature alter net ecosystem C exchange in a young Douglas fir mesocosm experiment. <i>Plant, Cell and Environment</i> , 2007, 30, 1400-1410.	2.8	17

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37	Effects of season and interval of prescribed burns on pyrogenic carbon in ponderosa pine stands in the southern Blue Mountains, Oregon, USA. <i>Geoderma</i> , 2019, 348, 1-11.	2.3	17
38	Minirhizotron installation in sandy, rocky soils with minimal soil disturbance. <i>Soil Science Society of America Journal</i> , 2000, 64, 761-764.	1.2	16
39	Gasified Grass and Wood Biochars Facilitate Plant Establishment in Acid Mine Soils. <i>Journal of Environmental Quality</i> , 2016, 45, 1013-1020.	1.0	15
40	¹³ C isotopic signature and C concentration of soil density fractions illustrate reduced C allocation to subalpine grassland soil under high atmospheric N deposition. <i>Soil Biology and Biochemistry</i> , 2018, 125, 178-184.	4.2	15
41	A rapid-test for screening biochar effects on seed germination. <i>Communications in Soil Science and Plant Analysis</i> , 2018, 49, 2025-2041.	0.6	14
42	Preferential interaction of Na ⁺ over K ⁺ with carboxylate-functionalized silver nanoparticles. <i>Science of the Total Environment</i> , 2014, 490, 11-18.	3.9	13
43	Elevated temperature, soil moisture and seasonality but not CO ₂ affect canopy assimilation and system respiration in seedling Douglas-fir ecosystems. <i>Agricultural and Forest Meteorology</i> , 2007, 143, 30-48.	1.9	12
44	Elevated CO ₂ and O ₃ effects on fine-root survivorship in ponderosa pine mesocosms. <i>Oecologia</i> , 2009, 160, 827-837.	0.9	11
45	Independent and contrasting effects of elevated CO ₂ and N-fertilization on root architecture in <i>Pinus ponderosa</i> . <i>Trees - Structure and Function</i> , 2005, 19, 43-50.	0.9	10
46	A two-probe method for measuring water content of thin forest floor litter layers using time domain reflectometry. <i>Soil and Tillage Research</i> , 1996, 9, 199-207.	0.4	9
47	Sapwood moisture in Douglas-fir boles and seasonal changes in soil water. <i>Canadian Journal of Forest Research</i> , 2007, 37, 1263-1271.	0.8	9
48	Elemental and Spectroscopic Characterization of Low-Temperature (350°C) Lignocellulosic- and Manure-Based Designer Biochars and Their Use as Soil Amendments. , 2019, , 37-58.		9
49	Douglas-Fir (<i>Pseudotsuga menziesii</i> (Mirb.) Franco) Transcriptome Profile Changes Induced by Diesel Emissions Generated with CeO ₂ Nanoparticle Fuel Borne Catalyst. <i>Environmental Science & Technology</i> , 2018, 52, 10067-10077.	4.6	8
50	Biochar affects growth and shoot nitrogen in four crops for two soils. , 2020, 3, e20067.		8
51	¹³ C and ¹⁵ N in microarthropods reveal little response of Douglas-fir ecosystems to climate change. <i>Global Change Biology</i> , 2007, 13, 1386-1397.	4.2	7
52	Soil life in reconstructed ecosystems: Initial soil food web responses after rebuilding a forest soil profile for a climate change experiment. <i>Applied Soil Ecology</i> , 2010, 45, 26-38.	2.1	7
53	Biochar for Mine-land Reclamation. , 2019, , 75-90.		7
54	Microbial response to designer biochar and compost treatments for mining impacted soils. <i>Biochar</i> , 2021, 3, 299-314.	6.2	7

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55	A spatial analysis of fine-root biomass from stand data in the Pacific Northwest. <i>Canadian Journal of Forest Research</i> , 2004, 34, 2169-2180.	0.8	5
56	Shifts in N and $\delta^{15}N$ in wheat and barley exposed to cerium oxide nanoparticles. <i>NanoImpact</i> , 2018, 11, 156-163.	2.4	5
57	Biochar Affects Essential Nutrients of Carrot Taproots and Lettuce Leaves. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2020, 55, 261-271.	0.5	5
58	The effects of biochar and redox conditions on soil Pb bioaccessibility to people and waterfowl. <i>Chemosphere</i> , 2022, 294, 133675.	4.2	5
59	Do mesocosms influence photosynthesis and soil respiration?. <i>Environmental and Experimental Botany</i> , 2008, 62, 36-44.	2.0	4
60	The Occurrence of Legacy P Soils and Potential Mitigation Practices Using Activated Biochar. <i>Agronomy</i> , 2021, 11, 1289.	1.3	4
61	Applying fingerprint Fourier transformed infrared spectroscopy and chemometrics to assess soil ecosystem disturbance and recovery. <i>Journal of Soils and Water Conservation</i> , 2018, 73, 443-451.	0.8	3
62	Microbial Response to Phytostabilization in Mining Impacted Soils Using Maize in Conjunction with Biochar and Compost. <i>Microorganisms</i> , 2021, 9, 2545.	1.6	3
63	Seasonal and long-term effects of CO ₂ and O ₃ on water loss in ponderosa pine and their interaction with climate and soil moisture. <i>Tree Physiology</i> , 2009, 29, 1381-1393.	1.4	2
64	Focused Microbiome Shifts in Reconstructed Wetlands Correlated with Elevated Cu Concentrations Originating from Micronized Copper Azole Treated Wood. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 3351-3368.	2.2	0
65	Investigations of nanoparticle toxicity and uptake of Cerium oxide and Titanium dioxide in <i>Arabidopsis thaliana</i> (L.). <i>FASEB Journal</i> , 2012, 26, 580.4.	0.2	0