

David H O'connor

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

6,751
citations

76294

40
h-index

133188

59
g-index

63
all docs

63
docs citations

63
times ranked

6277
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pyrolysis temperature, heating rate, and residence time on rapeseed stem derived biochar. <i>Journal of Cleaner Production</i> , 2018, 174, 977-987.	4.6	513
2	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 366-381.	12.2	493
3	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. <i>Science of the Total Environment</i> , 2018, 619-620, 815-826.	3.9	429
4	Integrated GIS and multivariate statistical analysis for regional scale assessment of heavy metal soil contamination: A critical review. <i>Environmental Pollution</i> , 2017, 231, 1188-1200.	3.7	348
5	A green biochar/iron oxide composite for methylene blue removal. <i>Journal of Hazardous Materials</i> , 2020, 384, 121286.	6.5	315
6	Microplastics undergo accelerated vertical migration in sand soil due to small size and wet-dry cycles. <i>Environmental Pollution</i> , 2019, 249, 527-534.	3.7	287
7	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. <i>Environment International</i> , 2019, 126, 747-761.	4.8	278
8	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. <i>Environmental Science & Technology</i> , 2020, 54, 14797-14814.	4.6	273
9	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. <i>Environment International</i> , 2019, 124, 320-328.	4.8	262
10	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. <i>Environment International</i> , 2020, 134, 105281.	4.8	228
11	Sulfur-modified rice husk biochar: A green method for the remediation of mercury contaminated soil. <i>Science of the Total Environment</i> , 2018, 621, 819-826.	3.9	206
12	Nature based solutions for contaminated land remediation and brownfield redevelopment in cities: A review. <i>Science of the Total Environment</i> , 2019, 663, 568-579.	3.9	201
13	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. <i>Soil Use and Management</i> , 2020, 36, 358-386.	2.6	200
14	Sustainable in situ remediation of recalcitrant organic pollutants in groundwater with controlled release materials: A review. <i>Journal of Controlled Release</i> , 2018, 283, 200-213.	4.8	189
15	Lead-based paint remains a major public health concern: A critical review of global production, trade, use, exposure, health risk, and implications. <i>Environment International</i> , 2018, 121, 85-101.	4.8	160
16	Groundwater depletion and contamination: Spatial distribution of groundwater resources sustainability in China. <i>Science of the Total Environment</i> , 2019, 672, 551-562.	3.9	143
17	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. <i>Journal of Cleaner Production</i> , 2019, 226, 540-549.	4.6	139
18	Sustainable soil use and management: An interdisciplinary and systematic approach. <i>Science of the Total Environment</i> , 2020, 729, 138961.	3.9	138

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19	Solidification/Stabilization for Soil Remediation: An Old Technology with New Vitality. <i>Environmental Science & Technology</i> , 2019, 53, 11615-11617.	4.6	131
20	Environmental and socio-economic sustainability appraisal of contaminated land remediation strategies: A case study at a mega-site in China. <i>Science of the Total Environment</i> , 2018, 610-611, 391-401.	3.9	127
21	High efficiency removal of methylene blue using SDS surface-modified ZnFe ₂ O ₄ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 39-48.	5.0	99
22	Lead contamination in Chinese surface soils: Source identification, spatial-temporal distribution and associated health risks. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1386-1423.	6.6	96
23	A Sustainability Assessment Framework for Agricultural Land Remediation in China. <i>Land Degradation and Development</i> , 2018, 29, 1005-1018.	1.8	91
24	One-pot green synthesis of bimetallic hollow palladium-platinum nanotubes for enhanced catalytic reduction of p-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 161-167.	5.0	90
25	Incorporating life cycle assessment with health risk assessment to select the "greenest" cleanup level for Pb contaminated soil. <i>Journal of Cleaner Production</i> , 2017, 162, 1157-1168.	4.6	84
26	Green and Size-Specific Synthesis of Stable Fe-Cu Oxides as Earth-Abundant Adsorbents for Malachite Green Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9229-9236.	3.2	79
27	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. <i>Environmental Pollution</i> , 2020, 264, 114687.	3.7	71
28	The effects of iniquitous lead exposure on health. <i>Nature Sustainability</i> , 2020, 3, 77-79.	11.5	69
29	Possible application of stable isotope compositions for the identification of metal sources in soil. <i>Journal of Hazardous Materials</i> , 2021, 407, 124812.	6.5	69
30	Exogenous phosphorus treatment facilitates chelation-mediated cadmium detoxification in perennial ryegrass (<i>Lolium perenne</i> L.). <i>Journal of Hazardous Materials</i> , 2020, 389, 121849.	6.5	67
31	Spatial distribution of lead contamination in soil and equipment dust at children's playgrounds in Beijing, China. <i>Environmental Pollution</i> , 2019, 245, 363-370.	3.7	64
32	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. <i>Environmental Research</i> , 2020, 183, 109152.	3.7	60
33	Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. <i>Environmental Pollution</i> , 2021, 270, 116281.	3.7	57
34	Climate change mitigation potential of contaminated land redevelopment: A city-level assessment method. <i>Journal of Cleaner Production</i> , 2018, 171, 1396-1406.	4.6	55
35	Phytoremediation: Climate change resilience and sustainability assessment at a coastal brownfield redevelopment. <i>Environment International</i> , 2019, 130, 104945.	4.8	54
36	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. <i>Chemosphere</i> , 2019, 233, 149-156.	4.2	54

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37	Effect of immobilizing reagents on soil Cd and Pb lability under freeze-thaw cycles: Implications for sustainable agricultural management in seasonally frozen land. <i>Environment International</i> , 2020, 144, 106040.	4.8	54
38	Lead-based paint in children's toys sold on China's major online shopping platforms. <i>Environmental Pollution</i> , 2018, 241, 311-318.	3.7	50
39	Temporal effect of MgO reactivity on the stabilization of lead contaminated soil. <i>Environment International</i> , 2019, 131, 104990.	4.8	49
40	Blood lead levels among Chinese children: The shifting influence of industry, traffic, and e-waste over three decades. <i>Environment International</i> , 2020, 135, 105379.	4.8	47
41	The development of groundwater research in the past 40 years: A burgeoning trend in groundwater depletion and sustainable management. <i>Journal of Hydrology</i> , 2020, 587, 125006.	2.3	40
42	VIRS based detection in combination with machine learning for mapping soil pollution. <i>Environmental Pollution</i> , 2021, 268, 115845.	3.7	38
43	Influence of groundwater table fluctuation on the non-equilibrium transport of volatile organic contaminants in the vadose zone. <i>Journal of Hydrology</i> , 2020, 580, 124353.	2.3	36
44	The need to prioritize sustainable phosphate-based fertilizers. <i>Soil Use and Management</i> , 2020, 36, 351-354.	2.6	28
45	Targeting cleanups towards a more sustainable future. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 266-269.	1.7	24
46	Farmers' perceptions and adaptation behaviours concerning land degradation: A theoretical framework and a case study in the Qinghai-Tibetan Plateau of China. <i>Land Degradation and Development</i> , 2018, 29, 2460-2471.	1.8	23
47	Natural field freeze-thaw process leads to different performances of soil amendments towards Cd immobilization and enrichment. <i>Science of the Total Environment</i> , 2022, 831, 154880.	3.9	18
48	Strengthening social-environmental management at contaminated sites to bolster Green and Sustainable Remediation via a survey. <i>Chemosphere</i> , 2019, 225, 295-303.	4.2	15
49	A numerical model to optimize LNAPL remediation by multi-phase extraction. <i>Science of the Total Environment</i> , 2020, 718, 137309.	3.9	15
50	Comparing the Adoption of Contaminated Land Remediation Technologies in the United States, United Kingdom, and China. <i>Remediation</i> , 2014, 25, 33-51.	1.1	11
51	Green and sustainable remediation: concepts, principles, and pertaining research. , 2020, , 1-17.		11
52	Modeling the risk of U(VI) migration through an engineered barrier system at a proposed Chinese high-level radioactive waste repository. <i>Science of the Total Environment</i> , 2020, 707, 135472.	3.9	9
53	More haste, less speed in replenishing China's groundwater. <i>Nature</i> , 2019, 569, 487-487.	13.7	8
54	Modeling the Diffusion of Contaminated Site Remediation Technologies. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	7

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55	High stress low-flow (HSLF) sampling: A newly proposed groundwater purge and sampling approach. Science of the Total Environment, 2019, 664, 127-132.	3.9	7
56	Sustainable remediation and revival of brownfields. Science of the Total Environment, 2020, 741, 140475.	3.9	7
57	DynSus: Dynamic sustainability assessment in groundwater remediation practice. Science of the Total Environment, 2022, 832, 154992.	3.9	7
58	Nature-Inspired and Sustainable Synthesis of Sulfur-Bearing Fe-Rich Nanoparticles. ACS Sustainable Chemistry and Engineering, 2020, 8, 15791-15808.	3.2	6
59	Vertical Barriers for Land Contamination Containment: A Review. International Journal of Environmental Research and Public Health, 2021, 18, 12643.	1.2	6
60	Sustainability assessment for remediation decision-making. , 2020, , 43-73.		5
61	The use of biochar for sustainable treatment of contaminated soils. , 2020, , 119-167.		5
62	Trade war threatens sustainability. Science, 2019, 364, 1242-1243.	6.0	4
63	Green and sustainable remediation: past, present, and future developments. , 2020, , 19-42.		2