

# Saran P Sohi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8716467/publications.pdf>

Version: 2024-02-01

68  
papers

9,050  
citations

61977

43  
h-index

98792

67  
g-index

71  
all docs

71  
docs citations

71  
times ranked

9061  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Biochar and Its Use and Function in Soil. <i>Advances in Agronomy</i> , 2010, 105, 47-82.	5.2	1,490
2	Black carbon affects the cycling of non-black carbon in soil. <i>Organic Geochemistry</i> , 2010, 41, 206-213.	1.8	530
3	How much land-based greenhouse gas mitigation can be achieved without compromising food security and environmental goals?. <i>Global Change Biology</i> , 2013, 19, 2285-2302.	9.5	454
4	The priming potential of biochar products in relation to labile carbon contents and soil organic matter status. <i>Soil Biology and Biochemistry</i> , 2011, 43, 2127-2134.	8.8	414
5	The effect of pyrolysis conditions on biochar stability as determined by three methods. <i>GCB Bioenergy</i> , 2013, 5, 122-131.	5.6	372
6	Adsorption kinetics of magnetic biochar derived from peanut hull on removal of Cr (VI) from aqueous solution: Effects of production conditions and particle size. <i>Chemosphere</i> , 2016, 145, 336-341.	8.2	354
7	Carbon Storage with Benefits. <i>Science</i> , 2012, 338, 1034-1035.	12.6	343
8	Australian climate carbon cycle feedback reduced by soil black carbon. <i>Nature Geoscience</i> , 2008, 1, 832-835.	12.9	326
9	A Procedure for Isolating Soil Organic Matter Fractions Suitable for Modeling. <i>Soil Science Society of America Journal</i> , 2001, 65, 1121-1128.	2.2	321
10	Biochar-root interactions are mediated by biochar nutrient content and impacts on soil nutrient availability. <i>European Journal of Soil Science</i> , 2014, 65, 173-185.	3.9	294
11	Stability of biomass-derived black carbon in soils. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 6069-6078.	3.9	287
12	Influence of production conditions on the yield and environmental stability of biochar. <i>Fuel</i> , 2013, 103, 151-155.	6.4	250
13	The way forward in biochar research: targeting trade-offs between the potential wins. <i>GCB Bioenergy</i> , 2015, 7, 1-13.	5.6	228
14	The Impact of Biochar Application on Soil Properties and Plant Growth of Pot Grown Lettuce ( <i>Lactuca</i> )	3.9	185
15	Prospective life cycle carbon abatement for pyrolysis biochar systems in the UK. <i>Energy Policy</i> , 2011, 39, 2646-2655.	8.8	179
16	A method for screening the relative long-term stability of biochar. <i>GCB Bioenergy</i> , 2013, 5, 215-220.	5.6	175
17	Sustainable gasification biochar systems? A case-study of rice-husk gasification in Cambodia, Part I: Context, chemical properties, environmental and health and safety issues. <i>Energy Policy</i> , 2012, 42, 49-58.	8.8	174
18	Trends in the recovery of phosphorus in bioavailable forms from wastewater. <i>Chemosphere</i> , 2017, 186, 381-395.	8.2	150

#	ARTICLE	IF	CITATIONS
19	The chemical composition of measurable soil organic matter pools. <i>Organic Geochemistry</i> , 2005, 36, 1174-1189.	1.8	148
20	Establishing release dynamics for plant nutrients from biochar. <i>GCB Bioenergy</i> , 2013, 5, 221-226.	5.6	133
21	Localisation of nitrate in the rhizosphere of biochar-amended soils. <i>Soil Biology and Biochemistry</i> , 2011, 43, 2243-2246.	8.8	126
22	Optimising the recovery and re-use of phosphorus from wastewater effluent for sustainable fertiliser development. <i>Water Research</i> , 2016, 94, 155-165.	11.3	118
23	Adsorption and reductive degradation of Cr(VI) and TCE by a simply synthesized zero valent iron magnetic biochar. <i>Journal of Environmental Management</i> , 2019, 235, 276-281.	7.8	108
24	Assessing the chemical and biological accessibility of the herbicide isoproturon in soil amended with biochar. <i>Chemosphere</i> , 2012, 88, 77-83.	8.2	99
25	SYNERGISTIC USE OF PEAT AND CHARRED MATERIAL IN GROWING MEDIA – AN OPTION TO REDUCE THE PRESSURE ON PEATLANDS?. <i>Journal of Environmental Engineering and Landscape Management</i> , 2017, 25, 160-174.	1.0	94
26	A comparative study on biochar properties and Cd adsorption behavior under effects of ageing processes of leaching, acidification and oxidation. <i>Environmental Pollution</i> , 2019, 254, 113123.	7.5	94
27	Consistency of biochar properties over time and production scales: A characterisation of standard materials. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 132, 200-210.	5.5	91
28	Toward the Standardization of Biochar Analysis: The COST Action TD1107 Interlaboratory Comparison. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 513-527.	5.2	86
29	Impact of pine chip biochar on trace greenhouse gas emissions and soil nutrient dynamics in an annual ryegrass system in California. <i>Agriculture, Ecosystems and Environment</i> , 2014, 191, 17-26.	5.3	81
30	USE OF THERMOGRAVIMETRY – DIFFERENTIAL SCANNING CALORIMETRY TO CHARACTERIZE MODELABLE SOIL ORGANIC MATTER FRACTIONS. <i>Soil Science Society of America Journal</i> , 2005, 69, 136-140.	2.2	76
31	Biochar – synergies and trade-offs between soil enhancing properties and C sequestration potential. <i>GCB Bioenergy</i> , 2015, 7, 1161-1175.	5.6	75
32	Biochar and enhanced phosphate capture: Mapping mechanisms to functional properties. <i>Chemosphere</i> , 2017, 179, 57-74.	8.2	65
33	Characterising the biophysical, economic and social impacts of soil carbon sequestration as a greenhouse gas removal technology. <i>Global Change Biology</i> , 2020, 26, 1085-1108.	9.5	65
34	Starving the soil of plant inputs for 50 years reduces abundance but not diversity of soil bacterial communities. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2021-2024.	8.8	63
35	Insight into mechanism of aged biochar for adsorption of PAEs: Reciprocal effects of ageing and coexisting Cd <sup>2+</sup> . <i>Environmental Pollution</i> , 2018, 242, 1098-1107.	7.5	63
36	Biochar Diminishes Nitrous Oxide and Nitrate Leaching from Diverse Nutrient Sources. <i>Journal of Environmental Quality</i> , 2013, 42, 672-682.	2.0	61

#	ARTICLE	IF	CITATIONS
37	Comment on "Fire-Derived Charcoal Causes Loss of Forest Humus". <i>Science</i> , 2008, 321, 1295-1295.	12.6	60
38	New insights into contrasting mechanisms for PAE adsorption on millimeter, micron- and nano-scale biochar. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18636-18650.	5.3	52
39	Effect of soil pH on the chemical composition of organic matter in physically separated soil fractions in two broadleaf woodland sites at Rothamsted, UK. <i>European Journal of Soil Science</i> , 2010, 61, 970-979.	3.9	48
40	Oxidative ageing induces change in the functionality of biochar and hydrochar: Mechanistic insights from sorption of atrazine. <i>Environmental Pollution</i> , 2019, 249, 1002-1010.	7.5	48
41	Biochars in soils: new insights and emerging research needs. <i>European Journal of Soil Science</i> , 2014, 65, 22-27.	3.9	47
42	Driving forces and barriers in the removal of phosphorus from water using crop residue, wood and sewage sludge derived biochars. <i>Science of the Total Environment</i> , 2019, 675, 623-631.	8.0	44
43	Modelling the potential for soil carbon sequestration using biochar from sugarcane residues in Brazil. <i>Scientific Reports</i> , 2020, 10, 19479.	3.3	44
44	Re-use of sugarcane residue as a novel biochar fertiliser - Increased phosphorus use efficiency and plant yield. <i>Journal of Cleaner Production</i> , 2020, 262, 121406.	9.3	43
45	Effect of biochar produced from different biomass sources and at different process temperatures on methane production and ammonia concentrations in vitro. <i>Animal Feed Science and Technology</i> , 2018, 237, 1-7.	2.2	39
46	Investigating the Chemical Characteristics of Soil Organic Matter Fractions Suitable for Modeling. <i>Soil Science Society of America Journal</i> , 2005, 69, 1248-1255.	2.2	33
47	Biochar engineering and ageing influence the spatiotemporal dynamics of soil pH in the charosphere. <i>Geoderma</i> , 2021, 386, 114919.	5.1	26
48	Bioavailability of phosphorus, other nutrients and potentially toxic elements from marginal biomass-derived biochar assessed in barley ( <i>Hordeum vulgare</i> ) growth experiments. <i>Science of the Total Environment</i> , 2017, 584-585, 448-457.	8.0	22
49	An anticipatory life cycle assessment of the use of biochar from sugarcane residues as a greenhouse gas removal technology. <i>Journal of Cleaner Production</i> , 2021, 312, 127764.	9.3	22
50	A RECONNAISSANCE-SCALE GIS-BASED MULTICRITERIA DECISION ANALYSIS TO SUPPORT SUSTAINABLE BIOCHAR USE: POLAND AS A CASE STUDY. <i>Journal of Environmental Engineering and Landscape Management</i> , 2017, 25, 208-222.	1.0	21
51	Biochar Phosphorus Release Is Limited by High pH and Excess Calcium. <i>Journal of Environmental Quality</i> , 2018, 47, 1298-1303.	2.0	17
52	Bioenergy driven land use change impacts on soil greenhouse gas regulation under Short Rotation Forestry. <i>Biomass and Bioenergy</i> , 2015, 82, 40-48.	5.7	16
53	The Indian Nitrogen Challenge in a Global Perspective. , 2017, , 9-28.		16
54	Expert Perceptions of the Role of Biochar as a Carbon Abatement Option with Ancillary Agronomic and Soil-Related Benefits. <i>Energy and Environment</i> , 2011, 22, 167-187.	4.6	14

#	ARTICLE	IF	CITATIONS
55	Testing a practical indicator for changing soil organic matter. <i>Soil Use and Management</i> , 2010, 26, 108-117.	4.9	11
56	Resolving the spatial variability of soil N using fractions of soil organic matter. <i>Agriculture, Ecosystems and Environment</i> , 2012, 147, 66-72.	5.3	11
57	Pyrolysis bioenergy with biochar production – greater carbon abatement and benefits to soil. <i>GCB Bioenergy</i> , 2013, 5, i.	5.6	10
58	Biochar stability scores from analytical pyrolysis (Py-GC-MS). <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 161, 105412.	5.5	10
59	An empirical model approach for assessing soil organic carbon stock changes following biomass crop establishment in Britain. <i>Biomass and Bioenergy</i> , 2015, 83, 141-151.	5.7	9
60	CASPER: A modelling framework to link mineral carbonation with the turnover of organic matter in soil. <i>Computers and Geosciences</i> , 2019, 124, 58-71.	4.2	9
61	How to trace back an unknown production temperature of biochar from chemical characterization methods in a feedstock independent way. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 151, 104926.	5.5	8
62	Biochar from sawmill residues: characterization and evaluation for its potential use in the horticultural growing media. <i>Biochar</i> , 2021, 3, 201-212.	12.6	8
63	Biochar, Tool for Climate Change Mitigation and Soil Management. , 2013, , 73-140.		7
64	Free and intra-aggregate organic matter as indicators of soil quality change in volcanic soils under contrasting crop rotations. <i>Soil Use and Management</i> , 2013, 29, 531-539.	4.9	7
65	Research Spotlight: The ELUM project: Ecosystem Land-Use Modeling and Soil Carbon GHG Flux Trial. <i>Biofuels</i> , 2014, 5, 111-116.	2.4	7
66	GEOTECHNICAL REQUIREMENTS FOR CAPTURING CO2 THROUGH HIGHWAYS LAND. <i>International Journal of GEOMATE</i> , 0, , .	0.3	5
67	The priming potential of environmentally weathered pyrogenic carbon during land-use transition to biomass crop production. <i>GCB Bioenergy</i> , 2016, 8, 805-817.	5.6	4
68	Effect of no-tillage on turnover of organic matter in a Rhodic Ferralsol. <i>Soil Use and Management</i> , 2003, 19, 250-256.	4.9	3