

Gerhard Soja

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.

101
papers

3,561
citations

32
h-index

58
g-index

107
ext. papers

4,271
ext. citations

4.2
avg, IF

5.44
L-index

#	Paper	IF	Citations
101	Physicochemical Characterization of Cherry Pits-Derived Biochar.. <i>Materials</i> , 2022 , 15,	3.5	1
100	Utilization of Sewage Sludge-Derived Pyrogenic Material as a Promising Soil Amendment. <i>Agriculture (Switzerland)</i> , 2022 , 12, 360	3	0
99	Effects of biochar on the fate of conazole fungicides in soils and their bioavailability to earthworms and plants. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	0
98	Role of biochar, compost and plant growth promoting rhizobacteria in the management of tomato early blight disease. <i>Scientific Reports</i> , 2021 , 11, 6092	4.9	12
97	Unravelling the process of petroleum hydrocarbon biodegradation in different filter materials of constructed wetlands by stable isotope fractionation and labelling studies. <i>Biodegradation</i> , 2021 , 32, 343-359	4.1	1
96	Conazole fungicides epoxiconazole and tebuconazole in biochar amended soils: Degradation and bioaccumulation in earthworms. <i>Chemosphere</i> , 2021 , 274, 129700	8.4	4
95	Preparation and Characterization of Novel Magnesium Composite/Walnut Shells-Derived Biochar for As and P Sorption from Aqueous Solutions. <i>Agriculture (Switzerland)</i> , 2021 , 11, 714	3	2
94	Biochar surface functional groups as affected by biomass feedstock, biochar composition and pyrolysis temperature. <i>Carbon Resources Conversion</i> , 2021 , 4, 36-46	4.7	38
93	Assessing the ecological vulnerability of the shallow steppe Lake Neusiedl (Austria-Hungary) to climate-driven hydrological changes using a palaeolimnological approach. <i>Journal of Great Lakes Research</i> , 2021 , 47, 1327-1344	3	1
92	Potassium nickel(II) hexacyanoferrate(III)-functionalized biochar for selective separation of radiocesium from liquid wastes. <i>Journal of Radiation Research and Applied Sciences</i> , 2020 , 13, 343-355	1.5	2
91	Engineered Pyrogenic Materials as Tools to Affect Arsenic Mobility in Old Mine Site Soil of Mediterranean Region. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020 , 104, 265-272	2.7	1
90	Pyrogenic carbon for decontamination of low-level radioactive effluents: Simultaneous separation of ¹³⁷ Cs and ⁶⁰ Co. <i>Progress in Nuclear Energy</i> , 2020 , 129, 103484	2.3	2
89	Carbon Sequestration in Support of the 4 per 1000 Initiative Using Compost and Stable Biochar from Hazelnut Shells and Sunflower Husks. <i>Processes</i> , 2020 , 8, 764	2.9	1
88	Assessment of Pyrogenic Carbonaceous Materials for Effective Removal of Radiocesium. <i>Key Engineering Materials</i> , 2020 , 838, 103-110	0.4	4
87	The mechanisms of biochar interactions with microorganisms in soil. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 2495-2518	4.7	52
86	Organic and chemical amendments positively modulate the bacterial proliferation for effective rhizoremediation of PCBs-contaminated soil. <i>Ecological Engineering</i> , 2019 , 138, 412-419	3.9	9
85	Fungicide application increased copper-bioavailability and impaired nitrogen fixation through reduced root nodule formation on alfalfa. <i>Ecotoxicology</i> , 2019 , 28, 599-611	2.9	7

84	Differentiation between physical and chemical effects of oil presence in freshly spiked soil during rhizoremediation trial. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 18451-18464	5.1	25
83	Temporal Changes in the Efficiency of Biochar- and Compost-Based Amendments on Copper Immobilization in Vineyard Soils. <i>Soil Systems</i> , 2019 , 3, 78	3.5	0
82	Agro-Environmental Benefit and Risk of Manure- and Bone Meal-Derived Pyrogenic Carbonaceous Materials as Soil Amendments: Availability of PAHs, PTEs, and P. <i>Agronomy</i> , 2019 , 9, 802	3.6	2
81	Monitoring of methylated naphthalenes in sludge-derived pyrogenic carbonaceous materials. <i>Chemosphere</i> , 2019 , 217, 456-462	8.4	5
80	Enhanced Cu and Cd sorption after soil aging of woodchip-derived biochar: What were the driving factors?. <i>Chemosphere</i> , 2019 , 216, 463-471	8.4	41
79	Designing biochar properties through the blending of biomass feedstock with metals: Impact on oxyanions adsorption behavior. <i>Chemosphere</i> , 2019 , 214, 743-753	8.4	29
78	Degradation of polycyclic aromatic hydrocarbons in a mixed contaminated soil supported by phytostabilisation, organic and inorganic soil additives. <i>Science of the Total Environment</i> , 2018 , 628-629, 1287-1295	10.2	28
77	Pyrogenic Materials-Induced Immobilization of Eu in Aquatic and Soil Systems: Comparative Study. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	3
76	Rhizoremediation of petroleum hydrocarbon-contaminated soils: Improvement opportunities and field applications. <i>Environmental and Experimental Botany</i> , 2018 , 147, 202-219	5.9	56
75	Assessment of Cu applications in two contrasting soils-effects on soil microbial activity and the fungal community structure. <i>Ecotoxicology</i> , 2018 , 27, 217-233	2.9	37
74	Compost and biochar interactions with copper immobilisation in copper-enriched vineyard soils. <i>Applied Geochemistry</i> , 2018 , 88, 40-48	3.5	27
73	Activated biochar alters activities of carbon and nitrogen acquiring soil enzymes. <i>Pedobiologia</i> , 2018 , 69, 1-10	1.7	20
72	Investigations of microbial degradation of polycyclic aromatic hydrocarbons based on C-labeled phenanthrene in a soil co-contaminated with trace elements using a plant assisted approach. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 6364-6377	5.1	7
71	Pyrolysis treatment of sewage sludge: A promising way to produce phosphorus fertilizer. <i>Journal of Cleaner Production</i> , 2018 , 172, 1772-1778	10.3	87
70	Immobilisation of metals in a contaminated soil with biochar-compost mixtures and inorganic additives: 2-year greenhouse and field experiments. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 2506-2516	5.1	18
69	The Impact of Biochar Incorporation on Inorganic Nitrogen Fertilizer Plant Uptake; An Opportunity for Carbon Sequestration in Temperate Agriculture. <i>Geosciences (Switzerland)</i> , 2018 , 8, 420	2.7	10
68	Production, characterization and adsorption studies of bamboo-based biochar/montmorillonite composite for nitrate removal. <i>Waste Management</i> , 2018 , 79, 385-394	8.6	69
67	Combined application of biochar, compost, and bacterial consortia with Italian ryegrass enhanced phytoremediation of petroleum hydrocarbon contaminated soil. <i>Environmental and Experimental Botany</i> , 2018 , 153, 80-88	5.9	74

66	BIOCHAR STANDARDIZATION AND LEGISLATION HARMONIZATION. <i>Journal of Environmental Engineering and Landscape Management</i> , 2017 , 25, 175-191	1.1	34
65	THE DIFFERENT FACES OF BIOCHAR: CONTAMINATION RISK VERSUS REMEDIATION TOOL. <i>Journal of Environmental Engineering and Landscape Management</i> , 2017 , 25, 86-104	1.1	45
64	Sorption separation of cobalt and cadmium by straw-derived biochar: a radiometric study. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 311, 85-97	1.5	19
63	The reduction of chromium (VI) phytotoxicity and phytoavailability to wheat (<i>Triticum aestivum</i> L.) using biochar and bacteria. <i>Applied Soil Ecology</i> , 2017 , 114, 90-98	5	57
62	Changes in biochar physical and chemical properties: Accelerated biochar aging in an acidic soil. <i>Carbon</i> , 2017 , 115, 209-219	10.4	88
61	Sorption separation of Eu and As from single-component systems by Fe-modified biochar: kinetic and equilibrium study. <i>Journal of the Iranian Chemical Society</i> , 2017 , 14, 521-530	2	36
60	Iron-impregnated biochars as effective phosphate sorption materials. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 463-475	5.1	98
59	Biological characteristics of composts and biochar as determined by plant response analysis. <i>Acta Horticulturae</i> , 2017 , 407-412	0.3	1
58	Long-term effects of biochar on soil physical properties. <i>Geoderma</i> , 2016 , 282, 96-102	6.7	211
57	Pyrolysis Products as Soil Fertilizers: Screening of Potentially Hazardous Aromatic Compounds. <i>Nova Biotechnologica Et Chimica</i> , 2016 , 15, 35-46	0.4	2
56	Potential of Fusarium wilt-inducing chlamydospores, in vitro behaviour in root exudates and physiology of tomato in biochar and compost amended soil. <i>Plant and Soil</i> , 2016 , 406, 425-440	4.2	30
55	Biochar and compost amendments enhance copper immobilisation and support plant growth in contaminated soils. <i>Journal of Environmental Management</i> , 2016 , 171, 101-112	7.9	66
54	Leachate Composition of Temperate Agricultural Soils in Response to Biochar Application. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	6
53	Toward the Standardization of Biochar Analysis: The COST Action TD1107 Interlaboratory Comparison. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 513-27	5.7	71
52	Interactions of Biochar and Biological Degradation of Aromatic Hydrocarbons in Contaminated Soil 2016 , 247-267		3
51	Sorption and desorption of pertechnetate on biochar under static batch and dynamic conditions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 310, 253-261	1.5	20
50	Effect of biochar artificial ageing on Cd and Cu sorption characteristics. <i>Journal of Geochemical Exploration</i> , 2015 , 159, 178-184	3.8	26
49	Trace element biogeochemistry in the soil-water-plant system of a temperate agricultural soil amended with different biochars. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 4513-26	5.1	21

48	Effect Of Wood-Based Biochar And Sewage Sludge Amendments For Soil Phosphorus Availability. <i>Nova Biotechnologica Et Chimica</i> , 2015 , 14, 104-115	0.4	13
47	Soil organic carbon and microbial communities respond to vineyard management. <i>Soil Use and Management</i> , 2015 , 31, 528-533	3.1	12
46	Assessment of sustainability in Austrian wine production. <i>BIO Web of Conferences</i> , 2015 , 5, 01022	0.4	2
45	Compost and biochar alter mycorrhization, tomato root exudation, and development of <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> . <i>Frontiers in Plant Science</i> , 2015 , 6, 529	6.2	73
44	Determination of Soil Organic Matter Features of Extractable Fractions Using Capillary Electrophoresis: An Organic Matter Stabilization Study in a Carbon-14-Labeled Long-Term Field Experiment. <i>SSSA Special Publication Series</i> , 2015 , 23-40	0	2
43	Effects of Biochars and Compost Mixtures and Inorganic Additives on Immobilisation of Heavy Metals in Contaminated Soils. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	50
42	Utilization of biochar sorbents for Cd ²⁺ , Zn ²⁺ , and Cu ²⁺ ions separation from aqueous solutions: comparative study. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 4093	3.1	64
41	Control of origin of sesame oil from various countries by stable isotope analysis and DNA based markers—a pilot study. <i>PLoS ONE</i> , 2015 , 10, e0123020	3.7	14
40	Trace element concentrations in leachates and mustard plant tissue (<i>Sinapis alba</i> L.) after biochar application to temperate soils. <i>Science of the Total Environment</i> , 2014 , 481, 498-508	10.2	48
39	Effects of rapeseed oil on the rhizodegradation of polyaromatic hydrocarbons in contaminated soil. <i>International Journal of Phytoremediation</i> , 2014 , 16, 671-83	3.9	13
38	Emissions of greenhouse gases from Lake Neusiedl, a shallow steppe lake in Eastern Austria. <i>Hydrobiologia</i> , 2014 , 731, 125-138	2.4	16
37	The Response of Artificial Aging to Sorption Properties of Biochar for Potentially Toxic Heavy Metals. <i>Nova Biotechnologica Et Chimica</i> , 2014 , 13, 137-147	0.4	12
36	Biochar application to temperate soils: Effects on soil fertility and crop growth under greenhouse conditions. <i>Journal of Plant Nutrition and Soil Science</i> , 2014 , 177, 3-15	2.3	136
35	Soil microbial communities responded to biochar application in temperate soils and slowly metabolized ¹³ C-labelled biochar as revealed by ¹³ C PLFA analyses: results from a short-term incubation and pot experiment. <i>European Journal of Soil Science</i> , 2014 , 65, 40-51	3.4	102
34	Changes in ice phenology characteristics of two Central European steppe lakes from 1926 to 2012 - influences of local weather and large scale oscillation patterns. <i>Climatic Change</i> , 2014 , 126, 119-133	4.5	10
33	Biochar decelerates soil organic nitrogen cycling but stimulates soil nitrification in a temperate arable field trial. <i>PLoS ONE</i> , 2014 , 9, e86388	3.7	178
32	Climate impacts on water balance of a shallow steppe lake in Eastern Austria (Lake Neusiedl). <i>Journal of Hydrology</i> , 2013 , 480, 115-124	6	33
31	Biochar affects the structure rather than the total biomass of microbial communities in temperate soils. <i>Agricultural and Food Science</i> , 2013 , 22, 404-423	2	48

30	Biochar application to temperate soils: effects on nutrient uptake and crop yield under field conditions. <i>Agricultural and Food Science</i> , 2013 , 22, 390-403	2	76
29	Characterization of slow pyrolysis biochars: effects of feedstocks and pyrolysis temperature on biochar properties. <i>Journal of Environmental Quality</i> , 2012 , 41, 990-1000	3-4	589
28	Biokohle für landwirtschaftliche Böden Biochar for Agricultural Soils. <i>Gaia</i> , 2012 , 21, 236-238	1.4	2
27	Soil microbial community dynamics and phenanthrene degradation as affected by rape oil application. <i>Applied Soil Ecology</i> , 2010 , 46, 329-334	5	12
26	Discrimination between ginseng from Korea and China by light stable isotope analysis. <i>Analytica Chimica Acta</i> , 2010 , 682, 77-81	6.6	21
25	Ozone stress and antioxidant substances in <i>Trifolium repens</i> and <i>Centaurea jacea</i> leaves. <i>Environmental Pollution</i> , 2007 , 146, 707-14	9-3	38
24	Test of the short-term critical levels for acute ozone injury on plants Improvements by ozone uptake modelling and the use of an effect threshold. <i>Atmospheric Environment</i> , 2004 , 38, 2237-2245	5-3	24
23	Long-term ozone exposure and ozone uptake of grapevines in open-top chambers. <i>Atmospheric Environment</i> , 2004 , 38, 2313-2321	5-3	20
22	Yield Responses of Wheat to Ozone Exposure as Modified by Drought-Induced Differences in Ozone Uptake. <i>Water, Air, and Soil Pollution</i> , 2003 , 147, 299-315	2.6	28
21	Growth and yield of winter wheat (<i>Triticum aestivum</i> L.) and corn (<i>Zea mays</i> L.) near a high voltage transmission line. <i>Bioelectromagnetics</i> , 2003 , 24, 91-102	1.6	18
20	Steady state levels of free radicals in tomato fruit exposed to drought and ozone stress in a field experiment. <i>Plant Physiology and Biochemistry</i> , 2003 , 41, 921-927	5-4	4
19	Complex interactive effects of drought and ozone stress on the antioxidant defence systems of two wheat cultivars. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 691-696	5-4	127
18	Free radicals in the fruit of three strawberry cultivars exposed to drought stress in the field. <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 709-717	5-4	21
17	Phenological weighting of ozone exposures in the calculation of critical levels for wheat, bean and plantain. <i>Environmental Pollution</i> , 2000 , 109, 517-24	9-3	37
16	Simultaneous analyses of chromosomes in root meristems and of the biochemical status of needle tissues of three different clones of Norway spruce trees challenged with moderate ozone levels. <i>Forest Pathology</i> , 1999 , 29, 281-294	1.2	11
15	Ozone indices based on simple meteorological parameters: potentials and limitations of regression and neural network models. <i>Atmospheric Environment</i> , 1999 , 33, 4299-4307	5-3	25
14	Risk assessment of conventional crop plants in analogy to transgenic plants. <i>Environmental Science and Pollution Research</i> , 1998 , 5, 89-93	5-1	5
13	Photosynthetic parameters as early indicators of ozone injury in apple leaves. <i>Physiologia Plantarum</i> , 1998 , 104, 639-645	4.6	26

12	Stress-physiological investigations and chromosomal analyses on cloned Norway spruce trees exposed to various levels of ozone in open-top chambers. <i>Chemosphere</i> , 1998 , 36, 709-714	8.4	6
11	The influence of ambient and elevated ozone concentrations on photosynthesis in <i>Populus nigra</i> . <i>Plant, Cell and Environment</i> , 1997 , 20, 1061-1069	8.4	43
10	Ozone effects on dry matter partitioning and chlorophyll fluorescence during plant development of wheat. <i>Water, Air, and Soil Pollution</i> , 1995 , 85, 1461-1466	2.6	22
9	Bush bean (<i>Phaseolus vulgaris</i> L) leaf injury, photosynthesis and stomatal functions under elevated ozone levels. <i>Water, Air, and Soil Pollution</i> , 1995 , 85, 1533-1538	2.6	7
8	Leaf Nitrogen, Photosynthesis and Crop Productivity in Jerusalem Artichoke (<i>Helianthus Tuberosus</i> L.). <i>Studies in Plant Science</i> , 1993 , 39-44		2
7	The Applicability of Enzymatic Methods for the Quantitative Analysis of Fructan-Containing Plant Extracts. <i>Studies in Plant Science</i> , 1993 , 3, 101-106		1
6	Plant development and hormonal status in the Jerusalem artichoke (<i>Helianthus tuberosus</i> L.). <i>Industrial Crops and Products</i> , 1992 , 1, 219-228	5.9	6
5	Leaf gas exchange and tuber yield in Jerusalem artichoke (<i>Helianthus tuberosus</i>) cultivars. <i>Field Crops Research</i> , 1991 , 26, 241-252	5.5	14
4	Harvest Dates, Fertilizer and Varietal Effects on Yield, Concentration and Molecular Distribution of Fructan in Jerusalem Artichoke (<i>Helianthus tuberosus</i> L.). <i>Journal of Agronomy and Crop Science</i> , 1990 , 165, 181-189	3.9	16
3	Translocation of ¹⁴ C-assimilates in Jerusalem Artichoke (<i>Helianthus tuberosus</i> L.). <i>Journal of Plant Physiology</i> , 1989 , 134, 218-223	3.6	13
2	Biochar Applications to Agricultural Soils in Temperate Climates [More Than Carbon Sequestration?291-314		0
1	Engineered biochar as a tool for nitrogen pollutants removal: preparation, characterization and sorption study191, 318-331		9