

# Patryk Oleszczuk

## List of Publications by Citations

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159  
papers

6,288  
citations

44  
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72  
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164  
ext. papers

7,774  
ext. citations

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avg, IF

6.9  
L-index

#	Paper	IF	Citations
159	Review on nano zerovalent iron (nZVI): From synthesis to environmental applications. <i>Chemical Engineering Journal</i> , <b>2016</b> , 287, 618-632	14.7	500
158	Application of laboratory prepared and commercially available biochars to adsorption of cadmium, copper and zinc ions from water. <i>Bioresource Technology</i> , <b>2015</b> , 196, 540-9	11	202
157	Adsorption and desorption of oxytetracycline and carbamazepine by multiwalled carbon nanotubes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 9167-73	10.3	201
156	Biochar for composting improvement and contaminants reduction. A review. <i>Bioresource Technology</i> , <b>2017</b> , 246, 193-202	11	187
155	Biochar properties regarding to contaminants content and ecotoxicological assessment. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 260, 375-82	12.8	180
154	Effects of Titanium Dioxide Nanoparticles Exposure on Human Health-a Review. <i>Biological Trace Element Research</i> , <b>2020</b> , 193, 118-129	4.5	171
153	Biochar-supported nZVI (nZVI/BC) for contaminant removal from soil and water: A critical review. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 373, 820-834	12.8	164
152	Activated carbon and biochar amendments decrease pore-water concentrations of polycyclic aromatic hydrocarbons (PAHs) in sewage sludge. <i>Bioresource Technology</i> , <b>2012</b> , 111, 84-91	11	159
151	Effect of sewage sludge properties on the biochar characteristic. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 112, 201-213	6	153
150	Enzymatic activity in an airfield soil polluted with polycyclic aromatic hydrocarbons. <i>Geoderma</i> , <b>2004</b> , 118, 221-232	6.7	140
149	Advances and future directions of biochar characterization methods and applications. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 2275-2330	11.1	128
148	The conversion of sewage sludge into biochar reduces polycyclic aromatic hydrocarbon content and ecotoxicity but increases trace metal content. <i>Biomass and Bioenergy</i> , <b>2015</b> , 75, 235-244	5.3	121
147	Sorption and desorption of Cr(VI) ions from water by biochars in different environmental conditions. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 5985-94	5.1	97
146	Effect of pesticides on microorganisms, enzymatic activity and plant in biochar-amended soil. <i>Geoderma</i> , <b>2014</b> , 214-215, 10-18	6.7	91
145	Influence of soil type and environmental conditions on ZnO, TiO <sub>2</sub> and Ni nanoparticles phytotoxicity. <i>Chemosphere</i> , <b>2013</b> , 92, 91-9	8.4	82
144	Phytotoxicity of municipal sewage sludge composts related to physico-chemical properties, PAHs and heavy metals. <i>Ecotoxicology and Environmental Safety</i> , <b>2008</b> , 69, 496-505	7	81
143	Persistence of polycyclic aromatic hydrocarbons (PAHs) in sewage sludge-amended soil. <i>Chemosphere</i> , <b>2006</b> , 65, 1616-26	8.4	79

142	Short-term effect of the soil amendments activated carbon, biochar, and ferric oxyhydroxide on bacteria and invertebrates. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 8674-83	10.3	76
141	Evaluation of sewage sludge and slow pyrolyzed sewage sludge-derived biochar for adsorption of phenanthrene and pyrene. <i>Bioresource Technology</i> , <b>2015</b> , 192, 618-26	11	75
140	Characterization of biochars produced from residues from biogas production. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 115, 157-165	6	75
139	Engineered biochar – A sustainable solution for the removal of antibiotics from water. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126926	14.7	75
138	Toxicity of biochars after polycyclic aromatic hydrocarbons removal by thermal treatment. <i>Ecological Engineering</i> , <b>2015</b> , 75, 79-85	3.9	73
137	Activated biochars reduce the exposure of polycyclic aromatic hydrocarbons in industrially contaminated soils. <i>Chemical Engineering Journal</i> , <b>2017</b> , 310, 33-40	14.7	73
136	Persistence of polycyclic aromatic hydrocarbons (PAHs) in biochar-amended soil. <i>Chemosphere</i> , <b>2016</b> , 146, 272-9	8.4	69
135	Effect of biochar activation by different methods on toxicity of soil contaminated by industrial activity. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 136, 119-125	7	67
134	Application of solid-phase extraction to determination of polycyclic aromatic hydrocarbons in sewage sludge extracts. <i>Journal of Hazardous Materials</i> , <b>2004</b> , 113, 237-45	12.8	67
133	Effect of biochars, activated carbon and multiwalled carbon nanotubes on phytotoxicity of sediment contaminated by inorganic and organic pollutants. <i>Ecological Engineering</i> , <b>2013</b> , 60, 50-59	3.9	63
132	Chemical and ecotoxicological evaluation of biochar produced from residues of biogas production. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 318, 417-424	12.8	63
131	Characterization of nanoparticles of biochars from different biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 121, 165-172	6	63
130	Stabilization of sewage sludge by different biochars towards reducing freely dissolved polycyclic aromatic hydrocarbons (PAHs) content. <i>Bioresource Technology</i> , <b>2014</b> , 156, 139-45	11	62
129	Toxicity of combined mixtures of nanoparticles to plants. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 331, 200-209	12.9	60
128	The effect of inorganic nanoparticles (ZnO, Cr2O3, CuO and Ni) and their bulk counterparts on enzyme activities in different soils. <i>Geoderma</i> , <b>2014</b> , 232-234, 528-537	6.7	59
127	Microbiological, biochemical and ecotoxicological evaluation of soils in the area of biochar production in relation to polycyclic aromatic hydrocarbon content. <i>Geoderma</i> , <b>2014</b> , 213, 502-511	6.7	55
126	Addition of biochar to sewage sludge decreases freely dissolved PAHs content and toxicity of sewage sludge-amended soil. <i>Environmental Pollution</i> , <b>2016</b> , 218, 242-251	9.3	53
125	Application of biochar to sewage sludge reduces toxicity and improve organisms growth in sewage sludge-amended soil in long term field experiment. <i>Science of the Total Environment</i> , <b>2018</b> , 625, 8-15	10.2	52

124	THE DARK SIDE OF BLACK GOLD: Ecotoxicological aspects of biochar and biochar-amended soils. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123833	12.8	52
123	Effect of pyrolysis temperatures on freely dissolved polycyclic aromatic hydrocarbon (PAH) concentrations in sewage sludge-derived biochars. <i>Chemosphere</i> , <b>2016</b> , 153, 68-74	8.4	51
122	The toxicity to plants of the sewage sludges containing multiwalled carbon nanotubes. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 436-42	12.8	51
121	Comparison of sewage sludge toxicity to plants and invertebrates in three different soils. <i>Chemosphere</i> , <b>2011</b> , 83, 502-9	8.4	50
120	Synthesis of biochar from residues after biogas production with respect to cadmium and nickel removal from wastewater. <i>Journal of Environmental Management</i> , <b>2017</b> , 201, 268-276	7.9	49
119	Application of three methods used for the evaluation of polycyclic aromatic hydrocarbons (PAHs) bioaccessibility for sewage sludge composting. <i>Bioresource Technology</i> , <b>2009</b> , 100, 413-20	11	47
118	Influence of anionic, cationic and nonionic surfactants on adsorption and desorption of oxytetracycline by ultrasonically treated and non-treated multiwalled carbon nanotubes. <i>Chemosphere</i> , <b>2011</b> , 85, 1312-7	8.4	46
117	Changes of polycyclic aromatic hydrocarbons during composting of sewage sludges with chosen physico-chemical properties and PAHs content. <i>Chemosphere</i> , <b>2007</b> , 67, 582-91	8.4	45
116	Polycyclic Aromatic Hydrocarbons Content in Shoots and Leaves of Willow ( <i>Salix viminalis</i> ) Cultivated on the Sewage Sludge-Amended Soil. <i>Water, Air, and Soil Pollution</i> , <b>2005</b> , 168, 91-111	2.6	45
115	PET-microplastics as a vector for heavy metals in a simulated plant rhizosphere zone. <i>Science of the Total Environment</i> , <b>2020</b> , 744, 140984	10.2	43
114	Long-term effect of ZnO and CuO nanoparticles on soil microbial community in different types of soil. <i>Geoderma</i> , <b>2019</b> , 352, 204-212	6.7	41
113	Ecotoxicological evaluation of selected pharmaceuticals to <i>Vibrio fischeri</i> and <i>Daphnia magna</i> before and after photooxidation process. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 104, 247-53	7	40
112	The Phytotoxicity Changes of Sewage Sludge-Amended Soils. <i>Water, Air, and Soil Pollution</i> , <b>2012</b> , 223, 4937-4948	2.6	40
111	A field study of bioavailable polycyclic aromatic hydrocarbons (PAHs) in sewage sludge and biochar amended soils. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 349, 27-34	12.8	36
110	Surfactants decrease the toxicity of ZnO, TiO <sub>2</sub> and Ni nanoparticles to <i>Daphnia magna</i> . <i>Ecotoxicology</i> , <b>2015</b> , 24, 1923-32	2.9	36
109	Effect of steam activated biochar application to industrially contaminated soils on bioavailability of polycyclic aromatic hydrocarbons and ecotoxicity of soils. <i>Science of the Total Environment</i> , <b>2016</b> , 566-567, 1023-1031	10.2	35
108	The toxicity of composts from sewage sludges evaluated by the direct contact tests phytotoxkit and ostracodtoxkit. <i>Waste Management</i> , <b>2008</b> , 28, 1645-53	8.6	35
107	MWCNT/TiO <sub>2</sub> /BiO <sub>2</sub> nanocomposites possessing the photocatalytic activity in UVA and UVC. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 162, 564-572	21.8	33

106	Influence of activated carbon and biochar on phytotoxicity of air-dried sewage sludges to <i>Lepidium sativum</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 80, 321-6	7	33
105	Carbon adsorbents from waste ion-exchange resins. <i>Carbon</i> , <b>2005</b> , 43, 1143-1150	10.4	33
104	Engineered biochars from organic wastes for the adsorption of diclofenac, naproxen and triclosan from water systems. <i>Journal of Cleaner Production</i> , <b>2021</b> , 288, 125686	10.3	32
103	Adsorption and desorption of heavy metals by the sewage sludge and biochar-amended soil. <i>Environmental Geochemistry and Health</i> , <b>2019</b> , 41, 1663-1674	4.7	32
102	Effect of co-application of nano-zero valent iron and biochar on the total and freely dissolved polycyclic aromatic hydrocarbons removal and toxicity of contaminated soils. <i>Chemosphere</i> , <b>2017</b> , 168, 1467-1476	8.4	31
101	Application of different carrying gases and ratio between sewage sludge and willow for engineered (smart) biochar production. <i>Journal of CO2 Utilization</i> , <b>2019</b> , 29, 20-28	7.6	31
100	Adsorption capacity of phenanthrene and pyrene to engineered carbon-based adsorbents produced from sewage sludge or sewage sludge-biomass mixture in various gaseous conditions. <i>Bioresource Technology</i> , <b>2019</b> , 280, 421-429	11	31
99	Effect of activated carbon and biochars on the bioavailability of polycyclic aromatic hydrocarbons in different industrially contaminated soils. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 11058-11068	5.1	31
98	Sorption of diclofenac and naproxen onto MWCNT in model wastewater treated by H <sub>2</sub> O <sub>2</sub> and/or UV. <i>Chemosphere</i> , <b>2016</b> , 149, 272-8	8.4	31
97	Sequential extraction of nickel and zinc in sewage sludge- or biochar/sewage sludge-amended soil. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 927-935	10.2	31
96	The addition of biochar as a sustainable strategy for the remediation of PAH-contaminated sediments. <i>Chemosphere</i> , <b>2021</b> , 263, 128274	8.4	31
95	Vanadium oxide activates persulfate for degradation of polycyclic aromatic hydrocarbons in aqueous system. <i>Chemical Engineering Journal</i> , <b>2019</b> , 364, 79-88	14.7	30
94	Changes of total and freely dissolved polycyclic aromatic hydrocarbons and toxicity of biochars treated with various aging processes. <i>Environmental Pollution</i> , <b>2018</b> , 237, 65-73	9.3	30
93	Biochars with low polycyclic aromatic hydrocarbon concentrations achievable by pyrolysis under high carrier gas flows irrespective of oxygen content or feedstock. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 122, 365-369	6	30
92	Application of a battery of biotests for the determination of leachate toxicity to bacteria and invertebrates from sewage sludge-amended soil. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 3435-46	5.1	28
91	Biochar production increases the polycyclic aromatic hydrocarbon content in surrounding soils and potential cancer risk. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 3646-52	5.1	27
90	Effect of biochar addition to sewage sludge on cadmium, copper and lead speciation in sewage sludge-amended soil. <i>Chemosphere</i> , <b>2020</b> , 239, 124719	8.4	27
89	Bioaccessibility of polycyclic aromatic hydrocarbons in activated carbon or biochar amended vegetated ( <i>Salix viminalis</i> ) soil. <i>Environmental Pollution</i> , <b>2017</b> , 227, 406-413	9.3	26

88	Influence of different bulking agents on the disappearance of polycyclic aromatic hydrocarbons (PAHs) during sewage sludge composting. <i>Water, Air, and Soil Pollution</i> , <b>2006</b> , 175, 15-32	2.6	26
87	Combined toxicity of endosulfan and phenanthrene mixtures and induced molecular changes in adult Zebrafish ( <i>Danio rerio</i> ). <i>Chemosphere</i> , <b>2018</b> , 194, 30-41	8.4	26
86	Co-pyrolysis of sewage sludge and biomass in carbon dioxide as a carrier gas affects the total and leachable metals in biochars. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123144	12.8	25
85	Co-application of sewage sludge with biochar increases disappearance of polycyclic aromatic hydrocarbons from fertilized soil in long term field experiment. <i>Science of the Total Environment</i> , <b>2017</b> , 599-600, 854-862	10.2	24
84	Advanced oxidation (H <sub>2</sub> O <sub>2</sub> and/or UV) of functionalized carbon nanotubes (CNT-OH and CNT-COOH) and its influence on the stabilization of CNTs in water and tannic acid solution. <i>Environmental Pollution</i> , <b>2015</b> , 200, 161-7	9.3	24
83	Investigation of potentially bioavailable and sequestered forms of polycyclic aromatic hydrocarbons during sewage sludge composting. <i>Chemosphere</i> , <b>2007</b> , 70, 288-97	8.4	24
82	Bioavailability and bioaccessibility of polycyclic aromatic hydrocarbons (PAHs) in historically contaminated soils after lab incubation with sewage sludge-derived biochars. <i>Chemosphere</i> , <b>2016</b> , 163, 480-489	8.4	24
81	Effect of biochar application on the physical properties of Haplic Podzol. <i>Soil and Tillage Research</i> , <b>2017</b> , 174, 92-103	6.5	23
80	Ecotoxicological assessment of residues from different biogas production plants used as fertilizer for soil. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 298, 195-202	12.8	23
79	Influence of soil fertilization by sewage sludge on the content of polycyclic aromatic hydrocarbons (PAHs) in crops. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2005</b> , 40, 2085-103	2.3	23
78	Formation of persistent free radicals in biochar derived from rice straw based on a detailed analysis of pyrolysis kinetics. <i>Science of the Total Environment</i> , <b>2020</b> , 715, 136575	10.2	23
77	Attenuation of phenanthrene and pyrene adsorption by sewage sludge-derived biochar in biochar-amended soils. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 21822-21832	5.1	22
76	The concentration and changes in freely dissolved polycyclic aromatic hydrocarbons in biochar-amended soil. <i>Environmental Pollution</i> , <b>2016</b> , 214, 748-755	9.3	22
75	Phytotoxicity of nanoparticles--problems with bioassay choosing and sample preparation. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 10215-24	5.1	22
74	<i>Heterocypris incongruens</i> as a tool to estimate sewage sludge toxicity. <i>Environmental Toxicology and Chemistry</i> , <b>2008</b> , 27, 864-72	3.8	22
73	Carbon dioxide as a carrier gas and biomass addition decrease the total and bioavailable polycyclic aromatic hydrocarbons in biochar produced from sewage sludge. <i>Chemosphere</i> , <b>2019</b> , 228, 26-34	8.4	21
72	Carbon dioxide as a carrier gas and mixed feedstock pyrolysis decreased toxicity of sewage sludge biochar. <i>Science of the Total Environment</i> , <b>2020</b> , 723, 137796	10.2	21
71	Sorption of phenanthrene by sewage sludge during composting in relation to potentially bioavailable contaminant content. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 161, 1330-7	12.8	21

70	Environmental behavior of engineered biochars and their aging processes in soil. <i>Biochar</i> , <b>2019</b> , 1, 339-351	12.8	20
69	The conversion of sewage sludge to biochar as a sustainable tool of PAHs exposure reduction during agricultural utilization of sewage sludges. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122416	12.8	20
68	The influence of ZnO and TiO <sub>2</sub> nanoparticles on the toxicity of sewage sludges. <i>Environmental Sciences: Processes and Impacts</i> , <b>2013</b> , 15, 296-306	4.3	20
67	The Effects of Biochar Amendment on Soil Fertility. <i>SSSA Special Publication Series</i> , <b>2015</b> , 123-144	0	20
66	Carbon-mineral adsorbents prepared by pyrolysis of waste materials in the presence of tetrachloromethane. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 284, 39-47	9.3	19
65	Polycyclic aromatic hydrocarbons (PAHs) persistence, bioavailability and toxicity in sewage sludge- or sewage sludge-derived biochar-amended soil. <i>Science of the Total Environment</i> , <b>2020</b> , 747, 141123	10.2	18
64	An ecotoxicological evaluation of soil fertilized with biogas residues or mining waste. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 7833-42	5.1	17
63	Effect of various biochar rates on winter rye yield and the concentration of available nutrients in the soil. <i>Plant, Soil and Environment</i> , <b>2016</b> , 62, 483-489	2.2	17
62	Impact of ZnO and ZnS nanoparticles in sewage sludge-amended soil on bacteria, plant and invertebrates. <i>Chemosphere</i> , <b>2019</b> , 237, 124359	8.4	17
61	Active carbons from waste biochars. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 130, 15-24	4.1	17
60	Effect of activated carbon or biochars on toxicity of different soils contaminated by mixture of native polycyclic aromatic hydrocarbons and heavy metals. <i>Environmental Toxicology and Chemistry</i> , <b>2016</b> , 35, 1321-8	3.8	17
59	The bioavailability and toxicity of ZnO and Ni nanoparticles and their bulk counterparts in different sediments. <i>Journal of Soils and Sediments</i> , <b>2016</b> , 16, 1798-1808	3.4	17
58	COVID-19 discarded disposable gloves as a source and a vector of pollutants in the environment. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 417, 125938	12.8	17
57	Engineered biochar modified with iron as a new adsorbent for treatment of water contaminated by selenium. <i>Journal of Saudi Chemical Society</i> , <b>2020</b> , 24, 824-834	4.3	16
56	Manufactured Nanomaterials: The Connection Between Environmental Fate and Toxicity. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2013</b> , 43, 2581-2616	11.1	15
55	Forms of polycyclic aromatic hydrocarbon in the formation of sewage sludge toxicity to <i>Heterocypris incongruens</i> . <i>Science of the Total Environment</i> , <b>2008</b> , 404, 94-102	10.2	15
54	Plasmid binding to metal oxide nanoparticles inhibited lateral transfer of antibiotic resistance genes. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1310-1322	7.1	14
53	Effect of Natural Aging of Biochar on Soil Enzymatic Activity and Physicochemical Properties in Long-Term Field Experiment. <i>Agronomy</i> , <b>2020</b> , 10, 449	3.6	14

52	Changes in the content of polycyclic aromatic hydrocarbons (PAHs) in light soil fertilized with sewage sludge. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2003</b> , 38, 793-805	2.3	14
51	Testing of different plants to determine influence of physico-chemical properties and contaminants content on municipal sewage sludges phytotoxicity. <i>Environmental Toxicology</i> , <b>2010</b> , 25, 38-47	4.2	13
50	Influence of Agricultural Land Use and Management on the Contents of Polycyclic Aromatic Hydrocarbons in Selected Silty Soils. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 184, 195-205	2.6	13
49	KINETICS OF PAHS LOSSES AND RELATIONSHIPS BETWEEN PAHS PROPERTIES AND PROPERTIES OF SOIL IN SEWAGE SLUDGE-AMENDED SOIL. <i>Polycyclic Aromatic Compounds</i> , <b>2005</b> , 25, 245-269	1.3	13
48	The Tenax fraction of PAHs relates to effects in sewage sludges. <i>Ecotoxicology and Environmental Safety</i> , <b>2009</b> , 72, 1320-5	7	12
47	The evaluation of sewage sludge and compost toxicity to <i>Heterocypris incongruens</i> in relation to inorganic and organic contaminants content. <i>Environmental Toxicology</i> , <b>2007</b> , 22, 587-96	4.2	12
46	Characterization of Polish sewage sludges with respect to fertility and suitability for land application. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2006</b> , 41, 1197-215	2.3	12
45	Modification of ordered mesoporous carbon for removal of environmental contaminants from aqueous phase: A review. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126266	12.8	12
44	Simultaneous adsorption of Cu(II) ions and poly(acrylic acid) on the hybrid carbon-mineral nanocomposites with metallic elements. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 412, 125138	12.8	11
43	Water treatment by H <sub>2</sub> O <sub>2</sub> and/or UV affects carbon nanotube (CNT) properties and fate in water and tannic acid solution. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 20198-206	5.1	10
42	Polyaromatic Hydrocarbons in Rhizosphere Soil of Different Plants: Effect of Soil Properties, Plant Species, and Intensity of Anthropogenic Pressure. <i>Communications in Soil Science and Plant Analysis</i> , <b>2007</b> , 38, 171-188	1.5	10
41	Investigating impact of physicochemical properties of microplastics on human health: A short bibliometric analysis and review. <i>Chemosphere</i> , <b>2021</b> , 289, 133146	8.4	10
40	Combined Effects of Plant Cultivation and Sorbing Carbon Amendments on Freely Dissolved PAHs in Contaminated Soil. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 4860-4868	10.3	9
39	Degradation of soil environment in the post-flooding area: content of polycyclic aromatic hydrocarbons (PAHs) and s-triazine herbicides. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , <b>2003</b> , 38, 799-812	2.2	9
38	Effect of hydrothermal modification on the porous structure and thermal properties of carbon/silica adsorbents (carbosils). <i>Materials Chemistry and Physics</i> , <b>2003</b> , 78, 486-494	4.4	9
37	Concentration of Polycyclic Aromatic Hydrocarbons in Sewage Sludge-Amended Soil. <i>Communications in Soil Science and Plant Analysis</i> , <b>2005</b> , 36, 1083-1097	1.5	9
36	Influence of protein internal stability on its removal mechanism from aqueous solutions using eco-friendly horsetail herb-based engineered biochar. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124156	14.7	8
35	Effect of reclamation treatments on microbial activity and phytotoxicity of soil degraded by the sulphur mining industry. <i>Environmental Pollution</i> , <b>2019</b> , 252, 1429-1438	9.3	8

34	Toxicity of Light Soil Fertilized by Sewage Sludge or Compost in Relation to PAHs Content. <i>Water, Air, and Soil Pollution</i> , <b>2010</b> , 210, 347-356	2.6	8
33	Sewage sludge and solid residues from biogas production derived biochar as an effective bio-waste adsorbent of fulvic acids from water or wastewater. <i>Chemosphere</i> , <b>2021</b> , 278, 130447	8.4	8
32	The Concentration of Mild-Extracted Polycyclic Aromatic Hydrocarbons in Sewage Sludges. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2004</b> , 39, 2799-2815	2.3	7
31	Biochar and engineered biochar as slow- and controlled-release fertilizers. <i>Journal of Cleaner Production</i> , <b>2022</b> , 339, 130685	10.3	7
30	The chronic effects of CuO and ZnO nanoparticles on <i>Eisenia fetida</i> in relation to the bioavailability in aged soils. <i>Chemosphere</i> , <b>2021</b> , 266, 128982	8.4	7
29	Combined effect of nano-CuO and nano-ZnO in plant-related system: From bioavailability in soil to transcriptional regulation of metal homeostasis in barley. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 126230	12.8	7
28	Application of hydroxypropyl[beta]cyclodextrin to evaluation of polycyclic aromatic hydrocarbon losses during sewage sludges composting. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2008</b> , 43, 10-7	2.3	6
27	Content of potentially bioavailable polycyclic aromatic hydrocarbons in rhizosphere soil in relation to properties of soils. <i>Chemical Speciation and Bioavailability</i> , <b>2006</b> , 18, 39-48		6
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25	Effects of microplastics on the terrestrial environment: A critical review.. <i>Environmental Research</i> , <b>2022</b> , 209, 112734	7.9	6
24	Biochar alters chemical and microbial properties of microplastic-contaminated soil.. <i>Environmental Research</i> , <b>2022</b> , 112807	7.9	5
23	Ecotoxicological assessment of sewage sludge-derived biochars-amended soil. <i>Environmental Pollution</i> , <b>2021</b> , 275, 116484	9.3	5
22	Comparison of lead(II) ions accumulation and bioavailability on the montmorillonite and kaolinite surfaces in the presence of polyacrylamide soil flocculant. <i>Chemosphere</i> , <b>2021</b> , 276, 130088	8.4	5
21	Transcriptional and biochemical response of barley to co-exposure of metal-based nanoparticles. <i>Science of the Total Environment</i> , <b>2021</b> , 782, 146883	10.2	5
20	Simultaneous removal of toxic Pb(II) ions, poly(acrylic acid) and Triton X-100 from their mixed solution using engineered biochars obtained from horsetail herb precursor Impact of post-activation treatment. <i>Separation and Purification Technology</i> , <b>2021</b> , 276, 119297	8.3	4
19	Changes of solid phase toxicity during sewage sludge composting in relation to bioavailability of polycyclic aromatic hydrocarbons. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2009</b> , 44, 137-45	2.3	3
18	Tenax-TA extraction as predictor for free available content of polycyclic aromatic hydrocarbons (PAHs) in composted sewage sludges. <i>Journal of Environmental Monitoring</i> , <b>2008</b> , 10, 883-8		3
17	Influence of Long-Term Soils Flooding by Distilled and Post-Sewage Water on Polycyclic Aromatic Hydrocarbons (PAHs) Changes. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 180, 237-248	2.6	3

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15	EFFECT OF BIOMASS ADDITION BEFORE SEWAGE SLUDGE PYROLYSIS ON THE PERSISTENCE AND BIOAVAILABILITY OF POLYCYCLIC AROMATIC HYDROCARBONS IN BIOCHAR-AMENDED SOIL. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132143	14.7	3
14	The total and freely dissolved polycyclic aromatic hydrocarbons content in residues from biogas production. <i>Environmental Pollution</i> , <b>2016</b> , 208, 787-95	9.3	2
13	Sustainable biochar-based soil fertilizers and amendments as a new trend in biochar research. <i>Science of the Total Environment</i> , <b>2021</b> , 151588	10.2	2
12	Adsorption and desorption of antiviral drugs (ritonavir and lopinavir) on sewage sludges as a potential environmental risk.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 425, 127901	12.8	2
11	Biochars ages differently depending on the feedstock used for their production: Willow- versus sewage sludge-derived biochars. <i>Science of the Total Environment</i> , <b>2021</b> , 789, 147458	10.2	2
10	Mechanism of aging of biochars obtained at different temperatures from sewage sludges with different composition and character. <i>Chemosphere</i> , <b>2022</b> , 287, 132258	8.4	2
9	Response to Comment on Adsorption and Desorption of Oxytetracycline and Carbamazepine by Multiwalled Carbon Nanotubes <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4829-4829	10.3	1
8	Microplastics captured by snowfall: A study in Northern Iran.. <i>Science of the Total Environment</i> , <b>2022</b> , 153451	10.2	1
7	The content of elements and quality parameters of winter rye grain as influenced by biochar-amended soil. <i>Zemdirbyste</i> , <b>2018</b> , 105, 11-20	1.1	1
6	Cross-examination of engineered nanomaterials in crop production: Application and related implications. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127374	12.8	1
5	Microplastics in agricultural soils from a semi-arid region and their transport by wind erosion.. <i>Environmental Research</i> , <b>2022</b> , 113213	7.9	1
4	Low temperature-produced and VFA-coated biochar enhances phenanthrene adsorption and mitigates toxicity in marine sediments. <i>Separation and Purification Technology</i> , <b>2022</b> , 121414	8.3	1
3	The co-occurrence of Zn-and Cu-based engineered nanoparticles in soils: The metal extractability vs. toxicity to <i>Folsomia candida</i> . <i>Chemosphere</i> , <b>2022</b> , 287, 132252	8.4	0
2	Ecotoxicity of sewage sludge- or sewage sludge/willow-derived biochar-amended soil.. <i>Environmental Pollution</i> , <b>2022</b> , 119235	9.3	0
1	Distribution and transport of microplastics in groundwater (Shiraz aquifer, southwest Iran). <i>Water Research</i> , <b>2022</b> , 118622	12.5	0