

Steven Douglas Siciliano

List of Publications by Citations

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209
papers

9,478
citations

50
h-index

92
g-index

212
ext. papers

10,643
ext. citations

5.9
avg, IF

6.12
L-index

#	Paper	IF	Citations
209	Biofuel cells select for microbial consortia that self-mediate electron transfer. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 5373-82	4.8	953
208	A microbial fuel cell capable of converting glucose to electricity at high rate and efficiency. <i>Biotechnology Letters</i> , 2003 , 25, 1531-5	3	536
207	Strain-specific ureolytic microbial calcium carbonate precipitation. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 4901-9	4.8	324
206	Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?. <i>Frontiers in Microbiology</i> , 2016 , 7, 214	5.7	321
205	Selection of specific endophytic bacterial genotypes by plants in response to soil contamination. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2469-75	4.8	303
204	Detection and quantification of the human-specific HF183 Bacteroides 16S rRNA genetic marker with real-time PCR for assessment of human faecal pollution in freshwater. <i>Environmental Microbiology</i> , 2005 , 7, 249-59	5.2	264
203	Changes in microbial community composition and function during a polyaromatic hydrocarbon phytoremediation field trial. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 483-9	4.8	242
202	Diversity of root-associated bacteria associated with field-grown canola (<i>Brassica napus</i> L.) and wheat (<i>Triticum aestivum</i> L.). <i>FEMS Microbiology Ecology</i> , 1998 , 26, 43-50	4.3	215
201	Characterization of an autotrophic nitrogen-removing biofilm from a highly loaded lab-scale rotating biological contactor. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 3626-35	4.8	213
200	Bioaugmentation as a tool to protect the structure and function of an activated-sludge microbial community against a 3-chloroaniline shock load. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 1511-20	4.8	209
199	Microbial community responses to anthropogenically induced environmental change: towards a systems approach. <i>Ecology Letters</i> , 2013 , 16 Suppl 1, 128-39	10	169
198	Impact of agricultural practices on the <i>Zea mays</i> L. endophytic community. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1475-82	4.8	167
197	Soil fertility is associated with fungal and bacterial richness, whereas pH is associated with community composition in polar soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2014 , 78, 10-20	7.5	159
196	Human colon microbiota transform polycyclic aromatic hydrocarbons to estrogenic metabolites. <i>Environmental Health Perspectives</i> , 2005 , 113, 6-10	8.4	154
195	Taxonomic diversity of bacteria associated with the roots of modern, recent and ancient wheat cultivars. <i>Biology and Fertility of Soils</i> , 2001 , 33, 410-415	6.1	151
194	Microbial reduction and oxidation of mercury in freshwater lakes. <i>Environmental Science & Technology</i> , 2002 , 36, 3064-8	10.3	142
193	Mechanisms of phytoremediation: biochemical and ecological interactions between plants and bacteria. <i>Environmental Reviews</i> , 1998 , 6, 65-79	4.5	138

192	Differences in the microbial communities associated with the roots of different cultivars of canola and wheat. <i>Canadian Journal of Microbiology</i> , 1998 , 44, 844-851	3.2	133
191	Effects of plant species richness and evenness on soil microbial community diversity and function. <i>Plant and Soil</i> , 2011 , 338, 483-495	4.2	117
190	A High Arctic soil ecosystem resists long-term environmental manipulations. <i>Global Change Biology</i> , 2011 , 17, 3187-3194	11.4	112
189	Response of ammonia oxidizing archaea and bacteria to changing water filled pore space. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1888-1891	7.5	109
188	Legacy effects of soil moisture on microbial community structure and N2O emissions. <i>Soil Biology and Biochemistry</i> , 2016 , 95, 40-50	7.5	99
187	The seasonal pattern of soil microbial community structure in mesic low arctic tundra. <i>Soil Biology and Biochemistry</i> , 2013 , 65, 338-347	7.5	93
186	Relationship between nitrifier and denitrifier community composition and abundance in predicting nitrous oxide emissions from ephemeral wetland soils. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 1114-1123	7.5	92
185	Polycyclic aromatic hydrocarbon release from a soil matrix in the in vitro gastrointestinal tract. <i>Journal of Environmental Quality</i> , 2004 , 33, 1343-53	3.4	89
184	Adhesion and enrichment of metals on human hands from contaminated soil at an Arctic urban brownfield. <i>Environmental Science & Technology</i> , 2009 , 43, 6385-90	10.3	85
183	Effect of long-term herbicide applications on the bacterial community structure and function in an agricultural soil. <i>FEMS Microbiology Ecology</i> , 2003 , 46, 139-46	4.3	85
182	Gastrointestinal microbes increase arsenic bioaccessibility of ingested mine tailings using the simulator of the human intestinal microbial ecosystem. <i>Environmental Science & Technology</i> , 2007 , 41, 5542-7	10.3	77
181	Gross photoreduction kinetics of mercury in temperate freshwater lakes and rivers: application to a general model of DGM dynamics. <i>Environmental Science & Technology</i> , 2006 , 40, 837-43	10.3	77
180	Snowmelt sources of methylmercury to high arctic ecosystems. <i>Environmental Science & Technology</i> , 2004 , 38, 3004-10	10.3	77
179	Bioaugmenting bioreactors for the continuous removal of 3-chloroaniline by a slow release approach. <i>Environmental Science & Technology</i> , 2002 , 36, 4698-704	10.3	75
178	Effect of dissolved organic carbon on the photoproduction of dissolved gaseous mercury in lakes: potential impacts of forestry. <i>Environmental Science & Technology</i> , 2004 , 38, 2664-72	10.3	72
177	Methylmercury production in High Arctic wetlands. <i>Environmental Toxicology and Chemistry</i> , 2004 , 23, 17-23	3.8	71
176	Assessing the potential of ammonia oxidizing bacteria to produce nitrous oxide in soils of a high arctic lowland ecosystem on Devon Island, Canada. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 2001-2013	7.5	70
175	Continuous analysis of dissolved gaseous mercury (DGM) and mercury flux in two freshwater lakes in Kejimikujik Park, Nova Scotia: evaluating mercury flux models with quantitative data. <i>Environmental Science & Technology</i> , 2003 , 37, 2226-35	10.3	69

174	Abiotic production of methylmercury by solar radiation. <i>Environmental Science & Technology</i> , 2005 , 39, 1071-7	10.3	68
173	Human exposure assessment: a case study of 8 PAH contaminated soils using in vitro digestors and the juvenile swine model. <i>Environmental Science & Technology</i> , 2011 , 45, 4586-93	10.3	64
172	Bacterial inoculants of forage grasses that enhance degradation of 2-chlorobenzoic acid in soil. <i>Environmental Toxicology and Chemistry</i> , 1997 , 16, 1098-1104	3.8	64
171	A PCR-DGGE method for detecting arbuscular mycorrhizal fungi in cultivated soils. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 1589-1597	7.5	63
170	Hg(II) adsorption by bacteria: a surface complexation model and its application to shallow acidic lakes and wetlands in Kejimikujik National Park, Nova Scotia, Canada. <i>Environmental Science & Technology</i> , 2002 , 36, 1546-53	10.3	62
169	Use of 16S-23S rRNA intergenic spacer region PCR and repetitive extragenic palindromic PCR analyses of Escherichia coli isolates to identify nonpoint fecal sources. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 4942-50	4.8	59
168	Topography as a key factor driving atmospheric nitrogen exchanges in arctic terrestrial ecosystems. <i>Soil Biology and Biochemistry</i> , 2014 , 70, 96-112	7.5	57
167	Bioaccessibility of mercury from traditional northern country foods measured using an in vitro gastrointestinal model is independent of mercury concentration. <i>Science of the Total Environment</i> , 2009 , 407, 6003-8	10.2	54
166	Mercury transformations and fluxes in sediments of a riverine wetland. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 3393-3406	5.5	54
165	Long-term effects of mineral versus organic fertilizers on activity and structure of the methanotrophic community in agricultural soils. <i>Environmental Microbiology</i> , 2003 , 5, 867-77	5.2	53
164	Bacterial targets as potential indicators of diesel fuel toxicity in subantarctic soils. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 4021-33	4.8	52
163	Nitrifier dominance of Arctic soil nitrous oxide emissions arises due to fungal competition with denitrifiers for nitrate. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1104-1110	7.5	51
162	Biolog analysis and fatty acid methyl ester profiles indicate that pseudomonad inoculants that promote phytoremediation alter the root-associated microbial community of Bromus biebersteinii. <i>Soil Biology and Biochemistry</i> , 1998 , 30, 1717-1723	7.5	51
161	Cell density related H ₂ consumption in relation to anoxic Fe(0) corrosion and precipitation of corrosion products by Shewanella oneidensis MR-1. <i>Environmental Microbiology</i> , 2003 , 5, 1192-202	5.2	51
160	The influence of forestry activity on the structure of dissolved organic matter in lakes: implications for mercury photoreactions. <i>Science of the Total Environment</i> , 2006 , 366, 880-93	10.2	50
159	Combined effect of fertilizer and herbicide applications on the abundance, community structure and performance of the soil methanotrophic community. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 187-193	7.5	50
158	Effects and bioavailability of 2,4,6-trinitrotoluene in spiked and field-contaminated soils to indigenous microorganisms. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 2681-2688	3.8	50
157	Bryophyte-cyanobacterial associations as a key factor in N ₂ -fixation across the Canadian Arctic. <i>Plant and Soil</i> , 2011 , 344, 335-346	4.2	49

156	Calcium removal from industrial wastewater by bio-catalytic CaCO ₃ precipitation. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 670-677	3.5	47
155	Differentiation of genes extracted from non-viable versus viable micro-organisms in environmental samples using ethidium monoazide bromide. <i>Journal of Microbiological Methods</i> , 2007 , 71, 312-8	2.8	46
154	Smooth brome invasion increases rare soil bacterial species prevalence, bacterial species richness and evenness. <i>Journal of Ecology</i> , 2015 , 103, 386-396	6	45
153	Variability of bioaccessibility results using seventeen different methods on a standard reference material, NIST 2710. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013 , 48, 641-55	2.3	45
152	Microbial diversity at Mitchell Peninsula, Eastern Antarctica: a potential biodiversity hotspot. <i>Polar Biology</i> , 2016 , 39, 237-249	2	44
151	Fertilization stimulates anaerobic fuel degradation of antarctic soils by denitrifying microorganisms. <i>Environmental Science & Technology</i> , 2006 , 40, 2011-7	10.3	40
150	Polycyclic aromatic hydrocarbons are enriched but bioaccessibility reduced in brownfield soils adhered to human hands. <i>Chemosphere</i> , 2010 , 80, 1101-8	8.4	38
149	Continuous analysis of dissolved gaseous mercury in freshwater lakes. <i>Science of the Total Environment</i> , 2003 , 304, 285-94	10.2	38
148	Enhanced phytoremediation of chlorobenzoates in rhizosphere soil. <i>Soil Biology and Biochemistry</i> , 1999 , 31, 299-305	7.5	38
147	Quantifying the effects of soil temperature, moisture and sterilization on elemental mercury formation in boreal soils. <i>Environmental Pollution</i> , 2014 , 193, 138-146	9.3	37
146	Soil biogeochemical toxicity end points for sub-Antarctic islands contaminated with petroleum hydrocarbons. <i>Environmental Toxicology and Chemistry</i> , 2007 , 26, 890-7	3.8	37
145	Microbial Source Tracking for Identification of Fecal Pollution. <i>Reviews in Environmental Science and Biotechnology</i> , 2005 , 4, 19-37	13.9	37
144	Plant-Bacterial Combinations to Phytoremediate Soil Contaminated with High Concentrations of 2,4,6-Trinitrotoluene. <i>Journal of Environmental Quality</i> , 2000 , 29, 311-316	3.4	37
143	Small-scale spatial patterns in N ₂ -fixation and nutrient availability in an arctic hummock-bowl ecosystem. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 133-140	7.5	36
142	Assessment of 2,4,6-trinitrotoluene toxicity in field soils by pollution-induced community tolerance, denaturing gradient gel electrophoresis, and seed germination assay. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2154-2160	3.8	35
141	Nitrous oxide emissions from permafrost-affected soils. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 420-434	30.2	34
140	Greenhouse gas soil production and surface fluxes at a high arctic polar oasis. <i>Soil Biology and Biochemistry</i> , 2012 , 52, 1-12	7.5	34
139	Assessment of Pollution-Induced Microbial Community Tolerance to Heavy Metals in Soil Using Ammonia-Oxidizing Bacteria and Biolog Assay. <i>Human and Ecological Risk Assessment (HERA)</i> , 2002 , 8, 1067-1081	4.9	34

138	Archaea and bacteria mediate the effects of native species root loss on fungi during plant invasion. <i>ISME Journal</i> , 2017 , 11, 1261-1275	11.9	32
137	Oribatid mites in soil toxicity testing-the use of <i>Oppia nitens</i> (C.L. Koch) as a new test species. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 971-9	3.8	32
136	Soil formate regulates the fungal nitrous oxide emission pathway. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 6690-6	4.8	32
135	Reduction in denitrification activity in field soils exposed to long term contamination by 2,4,6-trinitrotoluene (TNT). <i>FEMS Microbiology Ecology</i> , 2000 , 32, 61-68	4.3	32
134	Effects of observed and experimental climate change on terrestrial ecosystems in northern Canada: results from the Canadian IPY program. <i>Climatic Change</i> , 2012 , 115, 207-234	4.5	31
133	Factors driving potential ammonia oxidation in Canadian arctic ecosystems: does spatial scale matter?. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 346-53	4.8	31
132	Molecular, biochemical and ecological characterisation of a bio-catalytic calcification reactor. <i>Applied Microbiology and Biotechnology</i> , 2003 , 62, 191-201	5.7	31
131	Geological connectivity drives microbial community structure and connectivity in polar, terrestrial ecosystems. <i>Environmental Microbiology</i> , 2016 , 18, 1834-49	5.2	30
130	Smooth brome changes gross soil nitrogen cycling processes during invasion of a rough fescue grassland. <i>Plant Ecology</i> , 2015 , 216, 235-246	1.7	29
129	Spatially explicit structural equation modeling. <i>Ecology</i> , 2014 , 95, 2434-2442	4.6	29
128	Petroleum hydrocarbon remediation in frozen soil using a meat and bonemeal biochar plus fertilizer. <i>Chemosphere</i> , 2017 , 173, 330-339	8.4	28
127	Methyltransferase: An enzyme assay for microbial methylmercury formation in acidic soils and sediments. <i>Environmental Toxicology and Chemistry</i> , 2002 , 21, 1184-1190	3.8	27
126	Structural equation modeling of a winnowed soil microbiome identifies how invasive plants re-structure microbial networks. <i>ISME Journal</i> , 2019 , 13, 1988-1996	11.9	26
125	The ecological controls on the prevalence of candidate division TM7 in polar regions. <i>Frontiers in Microbiology</i> , 2014 , 5, 345	5.7	26
124	N ₂ O flux from plant-soil systems in polar deserts switch between sources and sinks under different light conditions. <i>Soil Biology and Biochemistry</i> , 2012 , 48, 69-77	7.5	26
123	Evaluation of a new battery of toxicity tests for boreal forest soils: assessment of the impact of hydrocarbons and salts. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 766-77	3.8	26
122	Total Phosphate Influences the Rate of Hydrocarbon Degradation but Phosphate Mineralogy Shapes Microbial Community Composition in Cold-Region Calcareous Soils. <i>Environmental Science & Technology</i> , 2016 , 50, 5197-206	10.3	26
121	Greenhouse gas production and consumption in High Arctic deserts. <i>Soil Biology and Biochemistry</i> , 2014 , 68, 158-165	7.5	24

120	Bioaccessibility of metal cations in soil is linearly related to its water exchange rate constant. <i>Environmental Science & Technology</i> , 2011 , 45, 4139-44	10.3	24
119	How is nitrogen fixation in the high arctic linked to greenhouse gas emissions?. <i>Plant and Soil</i> , 2013 , 362, 215-229	4.2	22
118	Identification of human fecal pollution sources in a coastal area: a case study at Oostende (Belgium). <i>Journal of Water and Health</i> , 2006 , 4, 167-175	2.2	22
117	Accumulation and toxicity of metals (copper, zinc, cadmium, and lead) and organic compounds (geraniol and benzo[a]pyrene) in the oribatid mite <i>Oppia nitens</i> . <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 1639-48	3.8	21
116	The fungicides thiram and captan affect the phenotypic characteristics of <i>Rhizobium leguminosarum</i> strain C1 as determined by FAME and Biolog analyses. <i>Biology and Fertility of Soils</i> , 2000 , 31, 303-309	6.1	21
115	Cardiovascular responses to lead are biphasic, while methylmercury, but not inorganic mercury, monotonically increases blood pressure in rats. <i>Toxicology</i> , 2015 , 328, 1-11	4.4	20
114	Degradation of chlorinated benzoic acid mixtures by plant-bacteria associations. <i>Environmental Toxicology and Chemistry</i> , 1998 , 17, 728-733	3.8	20
113	Liquid chromatography-mass spectrometry analysis of hydroxylated polycyclic aromatic hydrocarbons, formed in a simulator of the human gastrointestinal tract. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 806, 245-53	3.2	20
112	The Role of Soil Microbial Tests in Ecological Risk Assessment: Differentiating between Exposure and Effects. <i>Human and Ecological Risk Assessment (HERA)</i> , 1999 , 5, 671-682	4.9	20
111	Combined exposure to lead, inorganic mercury and methylmercury shows deviation from additivity for cardiovascular toxicity in rats. <i>Journal of Applied Toxicology</i> , 2015 , 35, 918-26	4.1	19
110	Spatially tripartite interactions of denitrifiers in arctic ecosystems: activities, functional groups and soil resources. <i>Environmental Microbiology</i> , 2012 , 14, 2601-13	5.2	19
109	Methyl mercury production and loss in Arctic soil. <i>Science of the Total Environment</i> , 2009 , 407, 1691-700	10.2	19
108	. <i>Environmental Toxicology and Chemistry</i> , 1998 , 17, 728	3.8	19
107	The mechanisms associated with the development of hypertension after exposure to lead, mercury species or their mixtures differs with the metal and the mixture ratio. <i>Toxicology</i> , 2016 , 339, 1-8	4.4	18
106	Can avoidance behavior of the mite <i>Oppia nitens</i> be used as a rapid toxicity test for soils contaminated with metals or organic chemicals?. <i>Environmental Toxicology and Chemistry</i> , 2011 , 30, 2594-601	3.8	18
105	Influence of liquid water and soil temperature on petroleum hydrocarbon toxicity in Antarctic soil. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 1409-15	3.8	18
104	Core and Differentially Abundant Bacterial Taxa in the Rhizosphere of Field Grown Genotypes: Implications for Canola Breeding. <i>Frontiers in Microbiology</i> , 2019 , 10, 3007	5.7	17
103	A high-throughput belowground plant diversity assay using next-generation sequencing of the trnL intron. <i>Plant and Soil</i> , 2016 , 404, 361-372	4.2	17

102	Assessing the Bioavailability and Risk from Metal-Contaminated Soils and Dusts. <i>Human and Ecological Risk Assessment (HERA)</i> , 2014 , 20, 272-286	4.9	17
101	Evidence of High Microbial Abundance and Spatial Dependency in Three Arctic Soil Ecosystems. <i>Soil Science Society of America Journal</i> , 2011 , 75, 2227-2232	2.5	17
100	Checkerboard score-area relationships reveal spatial scales of plant community structure. <i>Oikos</i> , 2018 , 127, 415-426	4	16
99	Deriving site-specific soil clean-up values for metals and metalloids: rationale for including protection of soil microbial processes. <i>Integrated Environmental Assessment and Management</i> , 2014 , 10, 388-400	2.5	16
98	The effect of residence time and fluid volume to soil mass (LS) ratio on in vitro arsenic bioaccessibility from poorly crystalline scorodite. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2010 , 45, 732-9	2.3	16
97	Pollution induced community tolerance (PICT) and analysis of 16S rRNA genes to evaluate the long-term effects of herbicides on methanotrophic communities in soil. <i>European Journal of Soil Science</i> , 2003 , 54, 679-684	3.4	16
96	Spiking regional vis-NIR calibration models with local samples to predict soil organic carbon in two High Arctic polar deserts using a vis-NIR probe. <i>Canadian Journal of Soil Science</i> , 2015 , 95, 237-249	1.4	14
95	Development of a simulated earthworm gut for determining bioaccessible arsenic, copper, and zinc from soil. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 1439-46	3.8	14
94	Evaluation of prairie grass species as bioindicators of halogenated aromatics in soil. <i>Environmental Toxicology and Chemistry</i> , 1997 , 16, 521-527	3.8	14
93	Are methylmercury concentrations in the wetlands of Kejimikujik National Park, Nova Scotia, Canada, dependent on geology?. <i>Journal of Environmental Quality</i> , 2003 , 32, 2085-94	3.4	14
92	Petroleum hydrocarbon mixture toxicity and a trait-based approach to soil invertebrate species for site-specific risk assessments. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2222-2234	3.8	13
91	Validating the scalability of soft X-ray spectromicroscopy for quantitative soil ecology and biogeochemistry research. <i>Environmental Science & Technology</i> , 2015 , 49, 1035-42	10.3	13
90	Nitrous Oxide Emissions from Ephemeral Wetland Soils are Correlated with Microbial Community Composition. <i>Frontiers in Microbiology</i> , 2011 , 2, 110	5.7	13
89	Soil Spatial Dependence in Three Arctic Ecosystems. <i>Soil Science Society of America Journal</i> , 2011 , 75, 591-594	2.5	13
88	Hydrocarbon contamination increases the liquid water content of frozen Antarctic soils. <i>Environmental Science & Technology</i> , 2008 , 42, 8324-9	10.3	13
87	Soil invertebrate avoidance behavior identifies petroleum hydrocarbon contaminated soils toxic to sensitive plant species. <i>Journal of Hazardous Materials</i> , 2019 , 361, 338-347	12.8	13
86	Responses of a mountain peatland to increasing temperature: A microcosm study of greenhouse gas emissions and microbial community dynamics. <i>Soil Biology and Biochemistry</i> , 2017 , 110, 22-33	7.5	12
85	Extent and Mechanism of Interaction between Phosphate and Citrate in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , 2018 , 82, 315-322	2.5	12

84	Nutritional status and gastrointestinal microbes affect arsenic bioaccessibility from soils and mine tailings in the simulator of the human intestinal microbial ecosystem. <i>Environmental Science & Technology</i> , 2009 , 43, 8652-7	10.3	12
83	Advancing soil ecological risk assessments for petroleum hydrocarbon contaminated soils in Canada: Persistence, organic carbon normalization and relevance of species assemblages. <i>Science of the Total Environment</i> , 2019 , 668, 400-410	10.2	11
82	Comparison of human exposure pathways in an urban brownfield: reduced risk from paving roads. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 2423-30	3.8	11
81	An investigation of the effect of gastrointestinal microbial activity on oral arsenic bioavailability. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013 , 48, 612-9	2.3	11
80	Plant belowground diversity and species segregation by depth in a semi-arid grassland. <i>Ecoscience</i> , 2018 , 25, 1-7	1.1	11
79	Multigenerational exposure of populations of <i>Oppia nitens</i> to zinc under pulse and continuous exposure scenarios. <i>Environmental Toxicology and Chemistry</i> , 2019 , 38, 896-904	3.8	10
78	In vitro prediction of polycyclic aromatic hydrocarbon bioavailability of 14 different incidentally ingested soils in juvenile swine. <i>Science of the Total Environment</i> , 2018 , 618, 682-689	10.2	10
77	Chemical speciation and fate of tripolyphosphate after application to a calcareous soil. <i>Geochemical Transactions</i> , 2018 , 19, 1	3	10
76	Validating potential toxicity assays to assess petroleum hydrocarbon toxicity in polar soil. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 402-7	3.8	10
75	Toxicity assessment of metal mixtures to soil enzymes is influenced by metal dosing method. <i>Chemosphere</i> , 2019 , 232, 366-376	8.4	9
74	The forgotten role of toxicodynamics: How habitat quality alters the mite, <i>Oppia nitens</i> , susceptibility to zinc, independent of toxicokinetics. <i>Chemosphere</i> , 2019 , 227, 444-454	8.4	9
73	Predicting Polycyclic Aromatic Hydrocarbon Bioavailability to Mammals from Incidentally Ingested Soils Using Partitioning and Fugacity. <i>Environmental Science & Technology</i> , 2016 , 50, 1338-46	10.3	9
72	Phenotypic plasticity of <i>Pseudomonas aureofaciens</i> (lacZY) introduced into and recovered from field and laboratory microcosm soils. <i>FEMS Microbiology Ecology</i> , 1998 , 27, 133-139	4.3	9
71	Natural attenuation: extant microbial activity forever and ever?. <i>Environmental Microbiology</i> , 2002 , 4, 315-7	5.2	9
70	<i>Oppia nitens</i> C.L. Koch, 1836 (Acari: Oribatida): Current Status of Its Bionomics and Relevance as a Model Invertebrate in Soil Ecotoxicology. <i>Environmental Toxicology and Chemistry</i> , 2019 , 38, 2593-2613	3.8	8
69	Solid-liquid separation method governs the in vitro bioaccessibility of metals in contaminated soil-like test materials. <i>Chemosphere</i> , 2015 , 134, 544-9	8.4	8
68	The potentiation of zinc toxicity by soil moisture in a boreal forest ecosystem. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 600-7	3.8	8
67	Citrate Addition Increased Phosphorus Bioavailability and Enhanced Gasoline Bioremediation. <i>Journal of Environmental Quality</i> , 2017 , 46, 975-983	3.4	8

66	Application Method and Biochar Type Affect Petroleum Hydrocarbon Degradation in Northern Landfarms. <i>Journal of Environmental Quality</i> , 2017 , 46, 751-759	3.4	8
65	Isolation of denitrifying bacteria from hydrocarbon-contaminated Antarctic soil. <i>Polar Biology</i> , 2006 , 30, 69-74	2	8
64	Protecting vulnerable individuals in a population: is the avoidance response of juvenile soil invertebrates more sensitive than the adults response?. <i>Chemosphere</i> , 2019 , 220, 658-667	8.4	8
63	Physical, chemical and microbial soil properties of frost boils at Browning Peninsula, Antarctica. <i>Polar Biology</i> , 2012 , 35, 463-468	2	7
62	The role of monodentate tetrahedral borate complexes in boric acid binding to a soil organic matter analogue. <i>Chemosphere</i> , 2021 , 276, 130150	8.4	7
61	The Charosphere Promotes Mineralization of ¹³ C-Phenanthrene by Psychrotrophic Microorganisms in Greenland Soils. <i>Journal of Environmental Quality</i> , 2019 , 48, 559-567	3.4	6
60	The bioavailability of polycyclic aromatic hydrocarbons from different dose media after single and sub-chronic exposure in juvenile swine. <i>Science of the Total Environment</i> , 2015 , 506-507, 308-14	10.2	6
59	From the Outside in: An Overview of Positron Imaging of Plant and Soil Processes. <i>Molecular Imaging</i> , 2020 , 19, 1536012120966405	3.7	6
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