Steven Douglas Siciliano

List of Publications by Year
in descending order

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211 papers	11,813 citations	29994 54 h-index	31759 101 g-index
213 all docs	213 docs citations	213 times ranked	12546 citing authors

#	Article	IF	Citations
1	Phenology-dependent root bacteria enhance yield of Brassica napus. Soil Biology and Biochemistry, 2022, 166, 108468.	4.2	10
2	Positronâ€emitting radiotracers spatially resolve unexpected biogeochemical relationships linked with methane oxidation in Arctic soils. Global Change Biology, 2022, , .	4.2	0
3	The silent carbon pool: Cryoturbic enriched organic matter in Canadian High Arctic semi-deserts. Geoderma, 2022, 415, 115781.	2.3	1
4	Brassica napus Bacterial Assembly Processes Vary with Plant Compartment and Growth Stage but Not between Lines. Applied and Environmental Microbiology, 2022, 88, e0027322.	1.4	10
5	Is assuming additivity of singleâ€metal toxicity thresholds a conservative approach to assessing risk of ecotoxicity from elevated soil concentrations of cobalt, copper, and nickel at contaminated sites?. Integrated Environmental Assessment and Management, 2021, 17, 753-766.	1.6	0
6	Brassica napus phyllosphere bacterial composition changes with growth stage. Plant and Soil, 2021, 464, 501-516.	1.8	13
7	Does habitat quality matter to soil invertebrates in metal-contaminated soils?. Journal of Hazardous Materials, 2021, 409, 124969.	6.5	1
8	Community effect concentrations as a new concept to easily incorporate community data in environmental effect assessment of complex metal mixtures. Journal of Hazardous Materials, 2021, 411, 125088.	6.5	3
9	Soil Buffering Capacity Can Be Used To Optimize Biostimulation of Psychrotrophic Hydrocarbon Remediation. Environmental Science & Technology, 2021, 55, 9864-9875.	4.6	4
10	The role of monodentate tetrahedral borate complexes in boric acid binding to a soil organic matter analogue. Chemosphere, 2021, 276, 130150.	4.2	16
11	Are structural and functional endpoints of soil communities similarly affected by metal mixtures? â€“ A terrestrial model ecosystem approach. Science of the Total Environment, 2021, 795, 148909.	3.9	0
12	A sustainable colloidal material with sorption and nutrientâ€supply capabilities for in situ groundwater bioremediation. Journal of Environmental Quality, 2021, 50, 1440-1451.	1.0	0
13	Uptake, toxicity, and maternal transfer of cadmium in the oribatid soil mite, Oppia nitens: Implication in the risk assessment of cadmium to soil invertebrates. Environmental Pollution, 2020, 259, 113912.	3.7	12
14	An intensive multilocation temporal dataset of fungal and bacterial communities in the root and rhizosphere of Brassica napus. Data in Brief, 2020, 31, 106143.	0.5	5
15	Spectroscopic Quantification of Inner- and Outer-Sphere Oxyanion Complexation Kinetics: Ionic Strength and Background Cation Effect on Sulfate Adsorption to Hematite. ACS Earth and Space Chemistry, 2020, 4, 1765-1776.	1.2	11
16	From the Outside in: An Overview of Positron Imaging of Plant and Soil Processes. Molecular Imaging, 2020, 19, 153601212096640.	0.7	12
17	An intensive multilocation temporal dataset of fungal communities in the root and rhizosphere of Brassica napus. Data in Brief, 2020, 30, 105467.	0.5	3
18	Introducing the Adverse Ecosystem Service Pathway as a Tool in Ecological Risk Assessment. Environmental Science & Technology, 2020, 54, 8144-8157.	4.6	19

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19	The effects of complex metal oxide mixtures on three soil invertebrates with contrasting biological traits. Science of the Total Environment, 2020, 738, 139921.	3.9	6
20	Metal oxides and annealed metals as alternatives to metal salts for fixed-ratio metal mixture ecotoxicity tests in soil. PLoS ONE, 2020, 15, e0229794.	1.1	6
21	A survey of invasive plants on grassland soil microbial communities and ecosystem services. Scientific Data, 2020, 7, 86.	2.4	14
22	Could Cryoturbic Diapirs Be Key for Understanding Ecological Feedbacks to Climate Change in High Arctic Polar Deserts?. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005263.	1.3	5
23	Methodology and validation of a new tandem mass spectrometer method for the quantification of inorganic and organic 18O-phosphate species. PLoS ONE, 2020, 15, e0229172.	1.1	1
24	Nitrous oxide emissions from permafrost-affected soils. Nature Reviews Earth & Environment, 2020, 1, 420-434.	12.2	90
25	Single metal and metal mixture toxicity of five metals to Oppia nitens in five different Canadian soils. Journal of Hazardous Materials, 2020, 392, 122341.	6.5	8
26	Inclusion of molecular descriptors in predictive models improves pesticide soil-air partitioning estimates. Chemosphere, 2020, 248, 126031.	4.2	12
27	A Dynamic Shift in Soil Metal Risk Assessment, It is Time to Shift from Toxicokinetics to Toxicodynamics. Environmental Toxicology and Chemistry, 2020, 39, 1307-1308.	2.2	3
28	Biology and carbon lability of sub-surface nutrient patches in High Arctic polar deserts drives the probability and magnitude of nitrous oxide emissions. Soil Biology and Biochemistry, 2020, 150, 108001.	4.2	3
29	In situ transformations of bonechar and tri-poly phosphate amendments in phosphorus-limited subsurface soils. Applied Geochemistry, 2019, 109, 104398.	1.4	10
30	Oppia nitens C.L. Koch, 1836 (Acari: Oribatida): Current Status of Its Bionomics and Relevance as a Model Invertebrate in Soil Ecotoxicology. Environmental Toxicology and Chemistry, 2019, 38, 2593-2613.	2.2	14
31	Numerical investigation of a transformable modular PET system: Consideration of point-spread functions, module arrangements, and operation protocols. AIP Conference Proceedings, 2019, , .	0.3	0
32	Multigenerational exposure of populations of Oppia nitens to zinc under pulse and continuous exposure scenarios. Environmental Toxicology and Chemistry, 2019, 38, 896-904.	2.2	16
33	Incremental sampling methodology for petroleum hydrocarbon contaminated soils: volume estimates and remediation strategies. Soil and Sediment Contamination, 2019, 28, 51-64.	1.1	4
34	Toxicity assessment of metal mixtures to soil enzymes is influenced by metal dosing method. Chemosphere, 2019, 232, 366-376.	4.2	20
35	Assessing Space, Time, and Remediation Contribution to Soil Pollutant Variation near the Detection Limit Using Hurdle Models to Account for a Large Proportion of Nondetectable Results. Environmental Science & Technology, 2019, 53, 6824-6833.	4.6	5
36	The forgotten role of toxicodynamics: How habitat quality alters the mite, Oppia nitens, susceptibility to zinc, independent of toxicokinetics.. Chemosphere, 2019, 227, 444-454.	4.2	18

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37	Advancing soil ecological risk assessments for petroleum hydrocarbon contaminated soils in Canada: Persistence, organic carbon normalization and relevance of species assemblages. Science of the Total Environment, 2019, 668, 400-410.	3.9	25
38	Structural equation modeling of a winnowed soil microbiome identifies how invasive plants re-structure microbial networks. ISME Journal, 2019, 13, 1988-1996.	4.4	57
39	The Charosphere Promotes Mineralization of ¹³Câ€Phenanthrene by Psychrotrophic Microorganisms in Greenland Soils. Journal of Environmental Quality, 2019, 48, 559-567.	1.0	6
40	Effects of chemical speciation on the bioaccessibility of zinc in spiked and smelterâ€affected soils. Environmental Toxicology and Chemistry, 2019, 38, 448-459.	2.2	5
41	Soil invertebrate avoidance behavior identifies petroleum hydrocarbon contaminated soils toxic to sensitive plant species. Journal of Hazardous Materials, 2019, 361, 338-347.	6.5	21
42	Protecting vulnerable individuals in a population: is the avoidance response of juvenile soil invertebrates more sensitive than the adults response?. Chemosphere, 2019, 220, 658-667.	4.2	12
43	Core and Differentially Abundant Bacterial Taxa in the Rhizosphere of Field Grown Brassica napus Genotypes: Implications for Canola Breeding. Frontiers in Microbiology, 2019, 10, 3007.	1.5	39
44	Who Is the Rock Miner and Who Is the Hunter? The Use of Heavy-Oxygen Labeled Phosphate (P18O4) to Differentiate between C and P Fluxes in a Benzene-Degrading Consortium. Environmental Science & Technology, 2018, 52, 1773-1786.	4.6	3
45	In vitro prediction of polycyclic aromatic hydrocarbon bioavailability of 14 different incidentally ingested soils in juvenile swine. Science of the Total Environment, 2018, 618, 682-689.	3.9	12
46	Checkerboard scoreâ€"area relationships reveal spatial scales of plant community structure. Oikos, 2018, 127, 415-426.	1.2	21
47	Plant belowground diversity and species segregation by depth in a semi-arid grassland. Ecoscience, 2018, 25, 1-7.	0.6	15
48	Applying a Modular PET System to Investigate Bioremediation of Subsurface Contamination: A Proof-of-Principle Study. Journal of Physics: Conference Series, 2018, 1120, 012077.	0.3	2
49	Linking Herbicide Dissipation to Soil Ecological Risk along Transmission Rightsâ€ofâ€Way in the Yukon Territory, Canada. Journal of Environmental Quality, 2018, 47, 1356-1364.	1.0	5
50	Chemical speciation and fate of tripolyphosphate after application to a calcareous soil. Geochemical Transactions, 2018, 19, 1.	1.8	22
51	Extent and Mechanism of Interaction between Phosphate and Citrate in a Calcareous Soil. Soil Science Society of America Journal, 2018, 82, 315-322.	1.2	15
52	Petroleum hydrocarbon mixture toxicity and a traitâ€based approach to soil invertebrate species for siteâ€specific risk assessments. Environmental Toxicology and Chemistry, 2018, 37, 2222-2234.	2.2	23
53	Archaea and bacteria mediate the effects of native species root loss on fungi during plant invasion. ISME Journal, 2017, 11, 1261-1275.	4.4	50
54	Petroleum hydrocarbon remediation in frozen soil using a meat and bonemeal biochar plus fertilizer. Chemosphere, 2017, 173, 330-339.	4.2	42

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55	Responses of a mountain peatland to increasing temperature: A microcosm study of greenhouse gas emissions and microbial community dynamics. Soil Biology and Biochemistry, 2017, 110, 22-33.	4.2	16
56	Salix arctica changes root distribution and nutrient uptake in response to subsurface nutrients in High Arctic deserts. Ecology, 2017, 98, 2158-2169.	1.5	6
57	Application Method and Biochar Type Affect Petroleum Hydrocarbon Degradation in Northern Landfarms. Journal of Environmental Quality, 2017, 46, 751-759.	1.0	12
58	Assessing human metal accumulations in an urban superfund site. Environmental Toxicology and Pharmacology, 2017, 54, 112-119.	2.0	9
59	Citrate Addition Increased Phosphorus Bioavailability and Enhanced Gasoline Bioremediation. Journal of Environmental Quality, 2017, 46, 975-983.	1.0	12
60	Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?. Frontiers in Microbiology, 2016, 7, 214.	1.5	479
61	Geological connectivity drives microbial community structure and connectivity in polar, terrestrial ecosystems. Environmental Microbiology, 2016, 18, 1834-1849.	1.8	51
62	Total Phosphate Influences the Rate of Hydrocarbon Degradation but Phosphate Mineralogy Shapes Microbial Community Composition in Cold-Region Calcareous Soils. Environmental Science & Technology, 2016, 50, 5197-5206.	4.6	33
63	Archaeal ammonia oxidizers respond to soil factors at smaller spatial scales than the overall archaeal community does in a high Arctic polar oasis. Canadian Journal of Microbiology, 2016, 62, 485-491.	0.8	6
64	Is received dose from ingested soil independent of soil PAH concentrations?â€"Animal model results. Environmental Toxicology and Chemistry, 2016, 35, 2261-2269.	2.2	3
65	Assessment of exposures and potential risks to the US adult population from the leaching of elements from gold and ceramic dental restorations. Journal of Exposure Science and Environmental Epidemiology, 2016, 26, 309-314.	1.8	3
66	Do biomarkers of exposure and effect correlate with internal exposure to PAHs in swine?. Biomarkers, 2016, 21, 283-291.	0.9	2
67	A high-throughput belowground plant diversity assay using next-generation sequencing of the trnL intron. Plant and Soil, 2016, 404, 361-372.	1.8	22
68	Legacy effects of soil moisture on microbial community structure and N2O emissions. Soil Biology and Biochemistry, 2016, 95, 40-50.	4.2	175
69	Predicting Polycyclic Aromatic Hydrocarbon Bioavailability to Mammals from Incidentally Ingested Soils Using Partitioning and Fugacity. Environmental Science & Technology, 2016, 50, 1338-1346.	4.6	12
70	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. Toxicology, 2016, 339, 1-8.	2.0	30
71	Microbial diversity at Mitchell Peninsula, Eastern Antarctica: a potential biodiversity â€œhotspotâ€• Polar Biology, 2016, 39, 237-249.	0.5	101
72	Assessment of exposures and potential risks to the US adult population from wear (attrition and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 Epidemiology, 2016, 26, 70-77.	1.8	3

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73	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. Canadian Journal of Soil Science, 2015, 95, 237-249.	0.5	20
74	Does Diapirism Influence Greenhouse Gas Production on Patterned Ground in the High Arctic?. Soil Science Society of America Journal, 2015, 79, 889-895.	1.2	4
75	Smooth brome invasion increases rare soil bacterial species prevalence, bacterial species richness and evenness. Journal of Ecology, 2015, 103, 386-396.	1.9	59
76	Validating the Scalability of Soft X-ray Spectromicroscopy for Quantitative Soil Ecology and Biogeochemistry Research. Environmental Science & Technology, 2015, 49, 1035-1042.	4.6	17
77	Smooth brome changes gross soil nitrogen cycling processes during invasion of a rough fescue grassland. Plant Ecology, 2015, 216, 235-246.	0.7	38
78	The bioavailability of polycyclic aromatic hydrocarbons from different dose media after single and sub-chronic exposure in juvenile swine. Science of the Total Environment, 2015, 506-507, 308-314.	3.9	7
79	Solidâ€"liquid separation method governs the in vitro bioaccessibility of metals in contaminated soil-like test materials. Chemosphere, 2015, 134, 544-549.	4.2	11
80	Combined exposure to lead, inorganic mercury and methylmercury shows deviation from additivity for cardiovascular toxicity in rats. Journal of Applied Toxicology, 2015, 35, 918-926.	1.4	22
81	Cardiovascular responses to lead are biphasic, while methylmercury, but not inorganic mercury, monotonically increases blood pressure in rats. Toxicology, 2015, 328, 1-11.	2.0	23
82	The potentiation of zinc toxicity by soil moisture in a boreal forest ecosystem. Environmental Toxicology and Chemistry, 2015, 34, 600-607.	2.2	9
83	Deriving siteâ€specific soil cleanâ€up values for metals and metalloids: Rationale for including protection of soil microbial processes. Integrated Environmental Assessment and Management, 2014, 10, 388-400.	1.6	19
84	Assessing the Bioavailability and Risk from Metal-Contaminated Soils and Dusts. Human and Ecological Risk Assessment (HERA), 2014, 20, 272-286.	1.7	23
85	Topography as a key factor driving atmospheric nitrogen exchanges in arctic terrestrial ecosystems. Soil Biology and Biochemistry, 2014, 70, 96-112.	4.2	78
86	Spatially explicit structural equation modeling. Ecology, 2014, 95, 2434-2442.	1.5	37
87	Greenhouse gas production and consumption in High Arctic deserts. Soil Biology and Biochemistry, 2014, 68, 158-165.	4.2	28
88	Soil fertility is associated with fungal and bacterial richness, whereas pH is associated with community composition in polar soil microbial communities. Soil Biology and Biochemistry, 2014, 78, 10-20.	4.2	243
89	Quantifying the effects of soil temperature, moisture and sterilization on elemental mercury formation in boreal soils. Environmental Pollution, 2014, 193, 138-146.	3.7	51
90	Bacterial Targets as Potential Indicators of Diesel Fuel Toxicity in Subantarctic Soils. Applied and Environmental Microbiology, 2014, 80, 4021-4033.	1.4	73

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91	The ecological controls on the prevalence of candidate division TM7 in polar regions. Frontiers in Microbiology, 2014, 5, 345.	1.5	32
92	Identification of regulatory genes to reduce N2O production. Canadian Journal of Plant Science, 2014, 94, 1033-1036.	0.3	5
93	How is nitrogen fixation in the high arctic linked to greenhouse gas emissions?. Plant and Soil, 2013, 362, 215-229.	1.8	32
94	Microbial community responses to anthropogenically induced environmental change: towards a systems approach. Ecology Letters, 2013, 16, 128-139.	3.0	258
95	The seasonal pattern of soil microbial community structure in mesic low arctic tundra. Soil Biology and Biochemistry, 2013, 65, 338-347.	4.2	131
96	An investigation of the effect of gastrointestinal microbial activity on oral arsenic bioavailability. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 612-619.	0.9	12
97	Variability of bioaccessibility results using seventeen different methods on a standard reference material, NIST 2710. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 641-655.	0.9	54
98	Factors Driving Potential Ammonia Oxidation in Canadian Arctic Ecosystems: Does Spatial Scale Matter?. Applied and Environmental Microbiology, 2012, 78, 346-353.	1.4	40
99	Effects of observed and experimental climate change on terrestrial ecosystems in northern Canada: results from the Canadian IPY program. Climatic Change, 2012, 115, 207-234.	1.7	34
100	Comparison of human exposure pathways in an urban brownfield: Reduced risk from paving roads. Environmental Toxicology and Chemistry, 2012, 31, 2423-2430.	2.2	13
101	Evaluation of a new battery of toxicity tests for boreal forest soils: Assessment of the impact of hydrocarbons and salts. Environmental Toxicology and Chemistry, 2012, 31, 766-777.	2.2	35
102	Accumulation and toxicity of metals (copper, zinc, cadmium, and lead) and organic compounds (geraniol and benzo[a]pyrene) in the oribatid mite Oppia nitens. Environmental Toxicology and Chemistry, 2012, 31, 1639-1648.	2.2	28
103	N2O flux from plant-soil systems in polar deserts switch between sources and sinks under different light conditions. Soil Biology and Biochemistry, 2012, 48, 69-77.	4.2	29
104	Greenhouse gas soil production and surface fluxes at a high arctic polar oasis. Soil Biology and Biochemistry, 2012, 52, 1-12.	4.2	47
105	Spatially tripartite interactions of denitrifiers in arctic ecosystems: activities, functional groups and soil resources. Environmental Microbiology, 2012, 14, 2601-2613.	1.8	22
106	Validating potential toxicity assays to assess petroleum hydrocarbon toxicity in polar soil. Environmental Toxicology and Chemistry, 2012, 31, 402-407.	2.2	14
107	Changes in liquid water alter nutrient bioavailability and gas diffusion in frozen antarctic soils contaminated with petroleum hydrocarbons. Environmental Toxicology and Chemistry, 2012, 31, 395-401.	2.2	6
108	Physical, chemical and microbial soil properties of frost boils at Browning Peninsula, Antarctica. Polar Biology, 2012, 35, 463-468.	0.5	9

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109	Human Exposure Assessment: A Case Study of 8 PAH Contaminated Soils Using in Vitro Digestors and the Juvenile Swine Model. Environmental Science & Technology, 2011, 45, 4586-4593.	4.6	70
110	Bioaccessibility of Metal Cations in Soil Is Linearly Related to Its Water Exchange Rate Constant. Environmental Science & Technology, 2011, 45, 4139-4144.	4.6	24
111	Nitrous Oxide Emissions from Ephemeral Wetland Soils are Correlated with Microbial Community Composition. Frontiers in Microbiology, 2011, 2, 110.	1.5	19
112	A High Arctic soil ecosystem resists longâ€term environmental manipulations. Global Change Biology, 2011, 17, 3187-3194.	4.2	140
113	Small-scale spatial patterns in N2-fixation and nutrient availability in an arctic hummockâ€"hollow ecosystem. Soil Biology and Biochemistry, 2011, 43, 133-140.	4.2	45
114	Effects of plant species richness and evenness on soil microbial community diversity and function. Plant and Soil, 2011, 338, 483-495.	1.8	162
115	Bryophyte-cyanobacterial associations as a key factor in N2-fixation across the Canadian Arctic. Plant and Soil, 2011, 344, 335-346.	1.8	58
116	Can avoidance behavior of the mite Oppia nitens be used as a rapid toxicity test for soils contaminated with metals or organic chemicals?. Environmental Toxicology and Chemistry, 2011, 30, 2594-2601.	2.2	21
117	Measurement of Carbon Dioxide, Methane, Nitrous oxide, and Water Potential in Soil Ecosystems. Methods in Enzymology, 2011, 496, 115-137.	0.4	7
118	Evidence of High Microbial Abundance and Spatial Dependency in Three Arctic Soil Ecosystems. Soil Science Society of America Journal, 2011, 75, 2227-2232.	1.2	18
119	Soil Spatial Dependence in Three Arctic Ecosystems. Soil Science Society of America Journal, 2011, 75, 591-594.	1.2	14
120	Response of ammonia oxidizing archaea and bacteria to changing water filled pore space. Soil Biology and Biochemistry, 2010, 42, 1888-1891.	4.2	134
121	Polycyclic aromatic hydrocarbons are enriched but bioaccessibility reduced in brownfield soils adhered to human hands. Chemosphere, 2010, 80, 1101-1108.	4.2	41
122	Oribatid mites in soil toxicity testingâ€"the use ofOppia nitens(C.L. Koch) as a new test species. Environmental Toxicology and Chemistry, 2010, 29, 971-979.	2.2	40
123	The effect of residence time and fluid volume to soil mass (LS) ratio onin vitroarsenic bioaccessibility from poorly crystalline scorodite. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2010, 45, 732-739.	0.9	17
124	Methyl mercury production and loss in Arctic soil. Science of the Total Environment, 2009, 407, 1691-1700.	3.9	21
125	Bioaccessibility of mercury from traditional northern country foods measured using an in vitro gastrointestinal model is independent of mercury concentration. Science of the Total Environment, 2009, 407, 6003-6008.	3.9	57
126	Nitrifier dominance of Arctic soil nitrous oxide emissions arises due to fungal competition with denitrifiers for nitrate. Soil Biology and Biochemistry, 2009, 41, 1104-1110.	4.2	58

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127	Development of a simulated earthworm gut for determining bioaccessible arsenic, copper, and zinc from soil. Environmental Toxicology and Chemistry, 2009, 28, 1439-1446.	2.2	16
128	Influence of liquid water and soil temperature on petroleum hydrocarbon toxicity in Antarctic soil. Environmental Toxicology and Chemistry, 2009, 28, 1409-1415.	2.2	21
129	Nutritional Status and Gastrointestinal Microbes Affect Arsenic Bioaccessibility from Soils and Mine Tailings in the Simulator of the Human Intestinal Microbial Ecosystem. Environmental Science & Technology, 2009, 43, 8652-8657.	4.6	14
130	Adhesion and Enrichment of Metals on Human Hands from Contaminated Soil at an Arctic Urban Brownfield. Environmental Science & Technology, 2009, 43, 6385-6390.	4.6	94
131	Effects of Energetic Materials on Soil Organisms. , 2009, , 35-76.		0
132	INCREASED SENSITIVITY AND VARIABILITY OF PHYTOTOXICITY RESPONSES IN ARCTIC SOILS TO A REFERENCE TOXICANT, BORIC ACID. Environmental Toxicology and Chemistry, 2008, 27, 720.	2.2	4
133	BIOGEOCHEMICAL TOXICITY AND PHYTOTOXICITY OF NITROGENOUS COMPOUNDS IN A VARIETY OF ARCTIC SOILS. Environmental Toxicology and Chemistry, 2008, 27, 1809.	2.2	3
134	Relationship between nitrifier and denitrifier community composition and abundance in predicting nitrous oxide emissions from ephemeral wetland soils. Soil Biology and Biochemistry, 2008, 40, 1114-1123.	4.2	112
135	Hydrocarbon Contamination Increases the Liquid Water Content of Frozen Antarctic Soils. Environmental Science & Technology, 2008, 42, 8324-8329.	4.6	15
136	Soil Formate Regulates the Fungal Nitrous Oxide Emission Pathway. Applied and Environmental Microbiology, 2008, 74, 6690-6696.	1.4	37
137	Contamination, regulation, and remediation: an introduction to bioremediation of petroleum hydrocarbons in cold regions. , 2008, , 1-37.		8
138	Evaluation of quantitative polymerase chain reaction to assessnosZgene prevalence in mixed microbial communities. Canadian Journal of Microbiology, 2007, 53, 636-642.	0.8	3
139	Mercury transformations and fluxes in sediments of a riverine wetland. Geochimica Et Cosmochimica Acta, 2007, 71, 3393-3406.	1.6	57
140	Differentiation of genes extracted from non-viable versus viable micro-organisms in environmental samples using ethidium monoazide bromide. Journal of Microbiological Methods, 2007, 71, 312-318.	0.7	51
141	Gastrointestinal Microbes Increase Arsenic Bioaccessibility of Ingested Mine Tailings Using the Simulator of the Human Intestinal Microbial Ecosystem. Environmental Science & Technology, 2007, 41, 5542-5547.	4.6	83
142	Assessing the potential of ammonia oxidizing bacteria to produce nitrous oxide in soils of a high arctic lowland ecosystem on Devon Island, Canada. Soil Biology and Biochemistry, 2007, 39, 2001-2013.	4.2	86
143	ARYL HYDROCARBON BIOACCESSIBILITY TO SMALL MAMMALS FROM ARCTIC PLANTS USING IN VITRO TECHNIQUES. Environmental Toxicology and Chemistry, 2007, 26, 491.	2.2	5
144	SOIL BIOGEOCHEMICAL TOXICITY END POINTS FOR SUB-ANTARCTIC ISLANDS CONTAMINATED WITH PETROLEUM HYDROCARBONS. Environmental Toxicology and Chemistry, 2007, 26, 890.	2.2	41

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145	Gross Photoreduction Kinetics of Mercury in Temperate Freshwater Lakes and Rivers:Â Application to a General Model of DGM Dynamics. Environmental Science & Technology, 2006, 40, 837-843.	4.6	91
146	Fertilization Stimulates Anaerobic Fuel Degradation of Antarctic Soils by Denitrifying Microorganisms. Environmental Science & Technology, 2006, 40, 2011-2017.	4.6	54
147	Identification of human fecal pollution sources in a coastal area: a case study at Oostende (Belgium). Journal of Water and Health, 2006, 4, 167-175.	1.1	25
148	Characterization of Escherichia Coli Isolates from Different Fecal Sources by Means of Classification Tree Analysis of Fatty Acid Methyl Ester (Fame) Profiles. Environmental Monitoring and Assessment, 2006, 114, 433-445.	1.3	4
149	Isolation of denitrifying bacteria from hydrocarbon-contaminated Antarctic soil. Polar Biology, 2006, 30, 69-74.	0.5	9
150	The influence of forestry activity on the structure of dissolved organic matter in lakes: Implications for mercury photoreactions. Science of the Total Environment, 2006, 366, 880-893.	3.9	55
151	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. Environmental Microbiology, 2005, 7, 249-259.	1.8	301
152	Combined effect of fertilizer and herbicide applications on the abundance, community structure and performance of the soil methanotrophic community. Soil Biology and Biochemistry, 2005, 37, 187-193.	4.2	57
153	A PCR-DGGE method for detecting arbuscular mycorrhizal fungi in cultivated soils. Soil Biology and Biochemistry, 2005, 37, 1589-1597.	4.2	70
154	Microbial Source Tracking for Identification of Fecal Pollution. Reviews in Environmental Science and Biotechnology, 2005, 4, 19-37.	3.9	41
155	Field Sampling. Journal of Environmental Quality, 2005, 34, 732-732.	1.0	0
156	Human Colon Microbiota Transform Polycyclic Aromatic Hydrocarbons to Estrogenic Metabolites. Environmental Health Perspectives, 2005, 113, 6-10.	2.8	195
157	Abiotic Production of Methylmercury by Solar Radiation. Environmental Science & Technology, 2005, 39, 1071-1077.	4.6	82
158	Polycyclic Aromatic Hydrocarbon Release from a Soil Matrix in the In Vitro Gastrointestinal Tract. Journal of Environmental Quality, 2004, 33, 1343-1353.	1.0	97
159	METHYLMERCURY PRODUCTION IN HIGH ARCTIC WETLANDS. Environmental Toxicology and Chemistry, 2004, 23, 17.	2.2	77
160	Liquid chromatographyâ€“mass spectrometry analysis of hydroxylated polycyclic aromatic hydrocarbons, formed in a simulator of the human gastrointestinal tract. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 806, 245-253.	1.2	24
161	Impact of Agricultural Practices on the Zea mays L. Endophytic Community. Applied and Environmental Microbiology, 2004, 70, 1475-1482.	1.4	186
162	Biofuel Cells Select for Microbial Consortia That Self-Mediate Electron Transfer. Applied and Environmental Microbiology, 2004, 70, 5373-5382.	1.4	1,090

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163	Effect of Dissolved Organic Carbon on the Photoproduction of Dissolved Gaseous Mercury in Lakes:Â Potential Impacts of Forestry. Environmental Science & Technology, 2004, 38, 2664-2672.	4.6	85
164	Snowmelt Sources of Methylmercury to High Arctic Ecosystems. Environmental Science & Technology, 2004, 38, 3004-3010.	4.6	83
165	A microbial fuel cell capable of converting glucose to electricity at high rate and efficiency. Biotechnology Letters, 2003, 25, 1531-1535.	1.1	631
166	Molecular, biochemical and ecological characterisation of a bio-catalytic calcification reactor. Applied Microbiology and Biotechnology, 2003, 62, 191-201.	1.7	36
167	Continuous analysis of dissolved gaseous mercury in freshwater lakes. Science of the Total Environment, 2003, 304, 285-294.	3.9	41
168	Calcium removal from industrial wastewater by bio-catalytic CaCO3 precipitation. Journal of Chemical Technology and Biotechnology, 2003, 78, 670-677.	1.6	61
169	Effect of long-term herbicide applications on the bacterial community structure and function in an agricultural soil. FEMS Microbiology Ecology, 2003, 46, 139-146.	1.3	106
170	Long-term effects of mineral versus organic fertilizers on activity and structure of the methanotrophic community in agricultural soils. Environmental Microbiology, 2003, 5, 867-877.	1.8	62
171	Cell density related H2 consumption in relation to anoxic Fe(0) corrosion and precipitation of corrosion products by Shewanella oneidensis MR-1. Environmental Microbiology, 2003, 5, 1192-1202.	1.8	57
172	Pollution induced community tolerance (PICT) and analysis of 16S rRNA genes to evaluate the long-term effects of herbicides on methanotrophic communities in soil. European Journal of Soil Science, 2003, 54, 679-684.	1.8	17
173	Continuous Analysis of Dissolved Gaseous Mercury (DGM) and Mercury Flux in Two Freshwater Lakes in Kejimkujik Park, Nova Scotia:Â Evaluating Mercury Flux Models with Quantitative Data. Environmental Science & Technology, 2003, 37, 2226-2235.	4.6	77
174	Strain-Specific Ureolytic Microbial Calcium Carbonate Precipitation. Applied and Environmental Microbiology, 2003, 69, 4901-4909.	1.4	408
175	Changes in Microbial Community Composition and Function during a Polyaromatic Hydrocarbon Phytoremediation Field Trial. Applied and Environmental Microbiology, 2003, 69, 483-489.	1.4	276
176	Use of 16S-23S rRNA Intergenic Spacer Region PCR and Repetitive Extragenic Palindromic PCR Analyses of Escherichia coli Isolates To Identify Nonpoint Fecal Sources. Applied and Environmental Microbiology, 2003, 69, 4942-4950.	1.4	68
177	Characterization of an Autotrophic Nitrogen-Removing Biofilm from a Highly Loaded Lab-Scale Rotating Biological Contactor. Applied and Environmental Microbiology, 2003, 69, 3626-3635.	1.4	231
178	Bioaugmentation as a Tool To Protect the Structure and Function of an Activated-Sludge Microbial Community against a 3-Chloroaniline Shock Load. Applied and Environmental Microbiology, 2003, 69, 1511-1520.	1.4	227
179	Are Methylmercury Concentrations in the Wetlands of Kejimkujik National Park, Nova Scotia, Canada, Dependent on Geology?. Journal of Environmental Quality, 2003, 32, 2085-2094.	1.0	21
180	Microbial imprints as forensic tools in food production. Environmental Microbiology, 2002, 4, 16-17.	1.8	1

#	Article	IF	Citations
181	A Hypothetical Application of the Pollution-Induced Community Tolerance Concept in Megafaunal Communities Found at Contaminated Sites. Human and Ecological Risk Assessment (HERA), 2002, 8, 1057-1066.	1.7	6
182	Assessment of Pollution-Induced Microbial Community Tolerance to Heavy Metals in Soil Using Ammonia-Oxidizing Bacteria and Biolog Assay. Human and Ecological Risk Assessment (HERA), 2002, 8, 1067-1081.	1.7	40
183	Dissolved Gaseous Mercury Profiles in Freshwaters. ACS Symposium Series, 2002, , 232-245.	0.5	2
184	Bioaugmenting Bioreactors for the Continuous Removal of 3-Chloroaniline by a Slow Release Approach. Environmental Science & Technology, 2002, 36, 4698-4704.	4.6	84
185	Microbial Reduction and Oxidation of Mercury in Freshwater Lakes. Environmental Science & Technology, 2002, 36, 3064-3068.	4.6	158
186	Hg(II) Adsorption by Bacteria:Â A Surface Complexation Model and Its Application to Shallow Acidic Lakes and Wetlands in Kejimkujik National Park, Nova Scotia, Canada. Environmental Science & Technology, 2002, 36, 1546-1553.	4.6	69
187	Methyltransferase: An enzyme assay for microbial methylmercury formation in acidic soils and sediments. Environmental Toxicology and Chemistry, 2002, 21, 1184-1190.	2.2	31
188	Natural attenuation: extant microbial activity forever and ever?. Environmental Microbiology, 2002, 4, 315-317.	1.8	10
189	Methyltransferase: An enzyme assay for microbial methylmercury formation in acidic soils and sediments. , 2002, 21, 1184.		3
190	Methyltransferase: an enzyme assay for microbial methylmercury formation in acidic soils and sediments. Environmental Toxicology and Chemistry, 2002, 21, 1184-90.	2.2	5
191	Selection of Specific Endophytic Bacterial Genotypes by Plants in Response to Soil Contamination. Applied and Environmental Microbiology, 2001, 67, 2469-2475.	1.4	338
192	Taxonomic diversity of bacteria associated with the roots of modern, recent and ancient wheat cultivars. Biology and Fertility of Soils, 2001, 33, 410-415.	2.3	193
193	Assessment of 2,4,6â€trinitrotoluene toxicity in field soils by pollutionâ€induced community tolerance, denaturing gradient gel electrophoresis, and seed germination assay. Environmental Toxicology and Chemistry, 2000, 19, 2154-2160.	2.2	37
194	Reduction in denitrification activity in field soils exposed to long term contamination by 2,4,6-trinitrotoluene (TNT). FEMS Microbiology Ecology, 2000, 32, 61-68.	1.3	37
195	The fungicides thiram and captan affect the phenotypic characteristics of Rhizobium leguminosarum strain C1 as determined by FAME and Biolog analyses. Biology and Fertility of Soils, 2000, 31, 303-309.	2.3	28
196	Plantâ€Bacterial Combinations to Phytoremediate Soil Contaminated with High Concentrations of 2,4,6â€Trinitrotoluene. Journal of Environmental Quality, 2000, 29, 311-316.	1.0	45
197	Effects and bioavailability of 2,4,6â€trinitrotoluene in spiked and fieldâ€contaminated soils to indigenous microorganisms. Environmental Toxicology and Chemistry, 1999, 18, 2681-2688.	2.2	51
198	Enhanced phytoremediation of chlorobenzoates in rhizosphere soil. Soil Biology and Biochemistry, 1999, 31, 299-305.	4.2	49

#	Article	IF	Citations
199	The Role of Soil Microbial Tests in Ecological Risk Assessment: Differentiating between Exposure and Effects. Human and Ecological Risk Assessment (HERA), 1999, 5, 671-682.	1.7	21
200	Phenotypic plasticity of Pseudomonas aureofaciens (lacZY) introduced into and recovered from field and laboratory microcosm soils. FEMS Microbiology Ecology, 1998, 27, 133-139.	1.3	11
201	Diversity of root-associated bacteria associated with field-grown canola (Brassica napus L.) and wheat (Triticum aestivum L.). FEMS Microbiology Ecology, 1998, 26, 43-50.	1.3	266
202	Degradation of chlorinated benzoic acid mixtures by plantâ€“bacteria associations. Environmental Toxicology and Chemistry, 1998, 17, 728-733.	2.2	23
203	Biolog analysis and fatty acid methyl ester profiles indicate that pseudomonad inoculants that promote phytoremediation alter the root-associated microbial community of Bromus biebersteinii. Soil Biology and Biochemistry, 1998, 30, 1717-1723.	4.2	59
204	Mechanisms of phytoremediation: biochemical and ecological interactions between plants and bacteria. Environmental Reviews, 1998, 6, 65-79.	2.1	159
205	Differences in the microbial communities associated with the roots of different cultivars of canola and wheat. Canadian Journal of Microbiology, 1998, 44, 844-851.	0.8	149
206	DEGRADATION OF CHLORINATED BENZOIC ACID MIXTURES BY PLANTâ€“BACTERIA ASSOCIATIONS. Environmental Toxicology and Chemistry, 1998, 17, 728.	2.2	20
207	Evaluation of prairie grass species as bioindicators of halogenated aromatics in soil. Environmental Toxicology and Chemistry, 1997, 16, 521-527.	2.2	16
208	Bacterial inoculants of forage grasses that enhance degradation of 2â€chlorobenzoic acid in soil. Environmental Toxicology and Chemistry, 1997, 16, 1098-1104.	2.2	66
209	Evaluation of prairie grass species as bioindicators of halogenated aromatics in soil. , 1997, 16, 521.		1
210	BACTERIAL INOCULANTS OF FORAGE GRASSES THAT ENHANCE DEGRADATION OF 2-CHLOROBENZOIC ACID IN SOIL. Environmental Toxicology and Chemistry, 1997, 16, 1098.	2.2	3
211	Root Growth Dynamics, Dominant Rhizosphere Bacteria, and Correlation Between Dominant Bacterial Genera and Root Traits Through Brassica napus Development. Plant and Soil, 0, , 1.	1.8	3