Tomas Cajthaml

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4020401/publications.pdf

Version: 2024-02-01

219 papers	10,353 citations	30070 54 h-index	43889 91 g-index
223 all docs	223 docs citations	223 times ranked	11357 citing authors

#	Article	IF	Citations
1	Differences in the flow of spruce-derived needle leachates and root exudates through a temperate coniferous forest mineral topsoil. Geoderma, 2022, 405, 115441.	5.1	6
2	Evaluation of estrogenic and antiestrogenic activity in sludge and explanation of individual compound contributions. Journal of Hazardous Materials, 2022, 423, 127108.	12.4	6
3	Recent advances in PCB removal from historically contaminated environmental matrices. Chemosphere, 2022, 287, 132096.	8.2	19
4	The driving factors of per- and polyfluorinated alkyl substance (PFAS) accumulation in selected fish species: The influence of position in river continuum, fish feed composition, and pollutant properties. Science of the Total Environment, 2022, 816, 151662.	8.0	9
5	Microbial communities in soil macro-aggregates with less connected networks respire less across successional and geographic gradients. European Journal of Soil Biology, 2022, 108, 103378.	3.2	8
6	Methods for Design and Bioremediation Applications of Reactors Based on Immobilized Fungi. Springer Protocols, 2022, , 71-92.	0.3	0
7	PILOT-SCALE VERMICOMPOSTING OF DEWATERED SEWAGE SLUDGE FROM MEDIUM-SIZED WWTP. Detritus, 2022, , 35-41.	0.9	3
8	The invasive tree Piper aduncum alters soil microbiota and nutrient content in fallow land following small scale slash-and-burn farming in tropical lowland forest in Papua New Guinea. Applied Soil Ecology, 2022, 176, 104487.	4.3	0
9	Changes in the root microbiome of four plant species with different mycorrhizal types across a nitrogen deposition gradient in ombrotrophic bogs. Soil Biology and Biochemistry, 2022, 169, 108673.	8.8	6
10	Effects of silver sulfide nanoparticles on the earthworm Eisenia andrei. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 257, 109355.	2.6	2
11	Effect of pyrolysis temperature on removal of organic pollutants present in anaerobically stabilized sewage sludge. Chemosphere, 2021, 265, 129082.	8.2	39
12	Separation of regioisomers and enantiomers of triacylglycerols containing branched fatty acids (iso) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.4	6
13	Understanding the toxicity mechanism of CuO nanoparticles: the intracellular view of exposed earthworm cells. Environmental Science: Nano, 2021, 8, 2464-2477.	4.3	11
14	In Vitro Interactions of TiO2 Nanoparticles with Earthworm Coelomocytes: Immunotoxicity Assessment. Nanomaterials, 2021, 11, 250.	4.1	8
15	Analytical determination of oestrogenic endocrine disruptors: the method of choice for wastewater treatment plant effluents. Environmental Chemistry, 2021, 18, 143-155.	1.5	2
16	Laccase and horseradish peroxidase for green treatment of phenolic micropollutants in real drinking water and wastewater. Environmental Science and Pollution Research, 2021, 28, 31566-31574.	5.3	23
17	Soil Organic Carbon Content Decreases in Both Surface and Subsoil Mineral Horizons by Simulated Future Increases in Labile Carbon Inputs in a Temperate Coniferous Forest. Ecosystems, 2021, 24, 2028-2041.	3.4	3
18	Evaluation of Hybrid Constructed Wetland Performance and Reuse of Treated Wastewater in Agricultural Irrigation. Water (Switzerland), 2021, 13, 1165.	2.7	10

#	Article	IF	Citations
19	Degradation Products of Polychlorinated Biphenyls and Their In Vitro Transformation by Ligninolytic Fungi. Toxics, 2021, 9, 81.	3.7	9
20	Biphenyl 2,3-Dioxygenase in Pseudomonas alcaliphila JAB1 Is Both Induced by Phenolics and Monoterpenes and Involved in Their Transformation. Frontiers in Microbiology, 2021, 12, 657311.	3.5	8
21	Are ivory antiques actually antique?. Crime, Law and Social Change, 2021, 76, 219-231.	1.1	0
22	Polycyclic aromatic hydrocarbon accumulation in aged and unaged polyurethane microplastics in contaminated soil. Science of the Total Environment, 2021, 770, 145254.	8.0	28
23	The sensitivity of multiple ecotoxicological assays for evaluating Microcystis aeruginosa cellular algal organic matter and contribution of cyanotoxins to the toxicity. Toxicon, 2021, 195, 69-77.	1.6	4
24	Comparison of temperature and oxygen concentration driven aeration methods for biodrying of municipal solid waste. European Journal of Environmental Sciences, 2021, 11, 38-45.	0.2	2
25	Coagulation of polyvinyl chloride microplastics by ferric and aluminium sulphate: Optimisation of reaction conditions and removal mechanisms. Journal of Environmental Chemical Engineering, 2021, 9, 106465.	6.7	25
26	The effects of hydraulic/pneumatic fracturing-enhanced remediation (FRAC-IN) at a site contaminated by chlorinated ethenes: A case study. Journal of Hazardous Materials, 2021, 417, 125883.	12.4	13
27	Discovering the potential of an nZVI-biochar composite as a material for the nanobioremediation of chlorinated solvents in groundwater: Degradation efficiency and effect on resident microorganisms. Chemosphere, 2021, 281, 130915.	8.2	23
28	Conversion of spent coffee grounds into vermicompost. Bioresource Technology, 2021, 341, 125925.	9.6	13
29	Predominant Biphenyl Dioxygenase From Legacy Polychlorinated Biphenyl (PCB)-Contaminated Soil Is a Part of Unusual Gene Cluster and Transforms Flavone and Flavanone. Frontiers in Microbiology, 2021, 12, 644708.	3.5	4
30	Key parameter optimization using multivariable linear model for the evaluation of the in vitro estrogenic activity assay in T47D cell lines (CXCLâ€test). Journal of Applied Toxicology, 2021, , .	2.8	0
31	Decomposition of labile and recalcitrant coniferous litter fractions affected by temperature during the growing season. Journal of Forestry Research, 2020, 31, 1115-1121.	3.6	5
32	Biodegradation of PCBs in contaminated water using spent oyster mushroom substrate and a trickle-bed bioreactor. Water Research, 2020, 170, 115274.	11.3	28
33	Long-term effects of earthworms (Lumbricus rubellus Hoffmeister, 1843) on activity and composition of soil microbial community under laboratory conditions. Applied Soil Ecology, 2020, 150, 103463.	4.3	10
34	Screening for 32 per- and polyfluoroalkyl substances (PFAS) including GenX in sludges from 43 WWTPs located in the Czech Republic - Evaluation of potential accumulation in vegetables after application of biosolids. Chemosphere, 2020, 261, 128018.	8.2	57
35	Vermicomposting of sludge from a malt house. Waste Management, 2020, 118, 232-240.	7.4	11
36	Bear trade in the Czech Republic: an analysis of legal and illegal international trade from 2005 to 2020. European Journal of Wildlife Research, 2020, 66, 1.	1.4	8

#	Article	IF	Citations
37	Microplasticsâ€"How and What Do University Students Know about the Emerging Environmental Sustainability Issue?. Sustainability, 2020, 12, 9220.	3.2	5
38	In Vitro Study of the Toxicity Mechanisms of Nanoscale Zero-Valent Iron (nZVI) and Released Iron Ions Using Earthworm Cells. Nanomaterials, 2020, 10, 2189.	4.1	14
39	Impact of plant species and atmospheric CO₂ concentration on rhizodeposition and soil microbial activity and community composition. Journal of Plant Nutrition and Soil Science, 2020, 183, 327-337.	1.9	3
40	Recovery of fen peatland microbiomes and predicted functional profiles after rewetting. ISME Journal, 2020, 14, 1701-1712.	9.8	39
41	Long-term decomposition of litter in the montane forest and the definition of fungal traits in the successional space. Fungal Ecology, 2020, 46, 100913.	1.6	22
42	Organic matter decomposition and carbon content in soil fractions as affected by a gradient of labile carbon input to a temperate forest soil. Biology and Fertility of Soils, 2020, 56, 411-421.	4.3	14
43	Biodegradability of Dental Care Antimicrobial Agents Chlorhexidine and Octenidine by Ligninolytic Fungi. Molecules, 2020, 25, 400.	3.8	9
44	Environmental fate of sulfidated nZVI particles: the interplay of nanoparticle corrosion and toxicity during aging. Environmental Science: Nano, 2020, 7, 1794-1806.	4.3	25
45	Analysis of the biodegradative and adaptive potential of the novel polychlorinated biphenyl degrader Rhodococcus sp. WAY2 revealed by its complete genome sequence. Microbial Genomics, 2020, 6, .	2.0	20
46	Composting and vermicomposting used to break down and remove pollutants from organic waste: a mini review. European Journal of Environmental Sciences, 2020, 10, 9-14.	0.2	9
47	Composting Practices for the Remediation of Matrices Contaminated by Recalcitrant Organic Pollutants. Applied Environmental Science and Engineering for A Sustainable Future, 2020, , 467-494.	0.5	4
48	Tool V: Microbiological Methods for Monitoring nZVI Performance in Groundwater Conditions. Applied Environmental Science and Engineering for A Sustainable Future, 2020, , 645-657.	0.5	0
49	Novel PCB-degrading Rhodococcus strains able to promote plant growth for assisted rhizoremediation of historically polluted soils. PLoS ONE, 2019, 14, e0221253.	2.5	31
50	Adaptive traits of bark and ambrosia beetle-associated fungi. Fungal Ecology, 2019, 41, 165-176.	1.6	21
51	Implications of mycoremediated dry olive residue application and arbuscular mycorrhizal fungi inoculation on the microbial community composition and functionality in a metal-polluted soil. Journal of Environmental Management, 2019, 247, 756-765.	7.8	12
52	Oxidative stress in microbes after exposure to iron nanoparticles: analysis of aldehydes as oxidative damage products of lipids and proteins. Environmental Science and Pollution Research, 2019, 26, 33670-33682.	5.3	22
53	Tree species identity alters decomposition of understory litter and associated microbial communities: a case study. Biology and Fertility of Soils, 2019, 55, 525-538.	4.3	24
54	Microplastics in drinking water treatment â€" Current knowledge and research needs. Science of the Total Environment, 2019, 667, 730-740.	8.0	263

#	Article	IF	Citations
55	Nano zero-valent iron aging interacts with the soil microbial community: a microcosm study. Environmental Science: Nano, 2019, 6, 1189-1206.	4.3	26
56	Estimation of competitive antagonist affinity by the Schild method and from functional inhibition curves using a novel form of the Gaddum equation. Toxicology, 2019, 420, 21-28.	4.2	3
57	Micropollutant biodegradation and the hygienization potential of biodrying as a pretreatment method prior to the application of sewage sludge in agriculture. Ecological Engineering, 2019, 127, 212-219.	3.6	17
58	Microbial communities in local and transplanted soils along a latitudinal gradient. Catena, 2019, 173, 456-464.	5.0	11
59	Assessment of agonistic and antagonistic properties of widely used oral care antimicrobial substances toward steroid estrogenic and androgenic receptors. Chemosphere, 2019, 217, 534-541.	8.2	12
60	Assessment of soil microbial communities involved in cellulose utilization at two contrasting Alpine forest sites. Soil Biology and Biochemistry, 2019, 129, 13-16.	8.8	10
61	Investigating the coagulation of non-proteinaceous algal organic matter: Optimizing coagulation performance and identification of removal mechanisms. Journal of Environmental Sciences, 2019, 79, 25-34.	6.1	31
62	The effect of traditional slashâ€andâ€burn agriculture on soil organic matter, nutrient content, and microbiota in tropical ecosystems of Papua New Guinea. Land Degradation and Development, 2019, 30, 166-177.	3.9	29
63	Pseudogemmobacter bohemicus gen. nov., sp. nov., a novel taxon from the Rhodobacteraceae family isolated from heavy-metal-contaminated sludge. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 2401-2407.	1.7	14
64	Decomposer food web in a deciduous forest shows high share of generalist microorganisms and importance of microbial biomass recycling. ISME Journal, 2018, 12, 1768-1778.	9.8	116
65	Characterization of soil bacterial, archaeal and fungal communities inhabiting archaeological human-impacted layers at Monte Iato settlement (Sicily, Italy). Scientific Reports, 2018, 8, 1903.	3.3	33
66	Diversity of root-associated microbial populations of Tamarix parviflora cultivated under various conditions. Applied Soil Ecology, 2018, 125, 264-272.	4.3	16
67	Receptor partial agonism and method to express receptor partial activation with respect to novel Full Logistic Model of mixture toxicology. Toxicology, 2018, 393, 26-33.	4.2	13
68	Complete genome sequence of Pseudomonas alcaliphila JAB1 (=DSM 26533), a versatile degrader of organic pollutants. Standards in Genomic Sciences, 2018, 13, 3.	1.5	36
69	Bioaugmentation of PAH-contaminated soils: A novel procedure for introduction of bacterial degraders into contaminated soil. Ecological Engineering, 2018, 118, 93-96.	3.6	26
70	New insight into isobolographic analysis for combinations of a full and partial agonist: Curved isoboles. Toxicology, 2018, 402-403, 9-16.	4.2	8
71	Biodegradation of endocrine disruptors in urban wastewater using Pleurotus ostreatus bioreactor. New Biotechnology, 2018, 43, 53-61.	4.4	61
72	Relative importance of honeydew and resin for the microbial activity in wood ant nest and forest floor substrate â€“ a laboratory study. Soil Biology and Biochemistry, 2018, 117, 1-4.	8.8	11

#	Article	IF	Citations
73	Novel assay for the toxicity evaluation of nanoscale zero-valent iron and derived nanomaterials based on lipid peroxidation in bacterial species. Chemosphere, 2018, 213, 568-577.	8.2	23
74	The role of CuZn- and Mn-superoxide dismutases in earthworm Eisenia andrei kept in two distinct field-contaminated soils. Ecotoxicology and Environmental Safety, 2018, 159, 363-371.	6.0	12
75	Different twig litter (Salix caprea) diameter does affect microbial community activity and composition but not decay rate. FEMS Microbiology Ecology, 2018, 94, .	2.7	11
76	Occurrence of microplastics in raw and treated drinking water. Science of the Total Environment, 2018, 643, 1644-1651.	8.0	669
77	The effects of tree species and substrate on carbon sequestration and chemical and biological properties in reforested post-mining soils. Geoderma, 2017, 292, 9-16.	5.1	80
78	Altitudinal, seasonal and interannual shifts in microbial communities and chemical composition of soil organic matter in Alpine forest soils. Soil Biology and Biochemistry, 2017, 112, 1-13.	8.8	76
79	Pharmaceuticals, benzene, toluene and chlorobenzene removal from contaminated groundwater by combined UV/H 2 O 2 photo-oxidation and aeration. Water Research, 2017, 120, 245-255.	11.3	49
80	Real-time PCR quantification of arbuscular mycorrhizal fungi: does the use of nuclear or mitochondrial markers make a difference?. Mycorrhiza, 2017, 27, 577-585.	2.8	36
81	Relationships between respiration, chemical and microbial properties of afforested mine soils with different soil texture and tree species: Does the time of incubation matter. European Journal of Soil Biology, 2017, 80, 102-109.	3.2	15
82	Microbiology Meets Archaeology: Soil Microbial Communities Reveal Different Human Activities at Archaic Monte Iato (Sixth Century BC). Microbial Ecology, 2017, 73, 925-938.	2.8	35
83	Performance of base hydrolysis methods in extracting bound lipids from plant material, soils, and sediments. Organic Geochemistry, 2017, 113, 97-104.	1.8	4
84	Assessment of biodegradation potential at a site contaminated by a mixture of BTEX, chlorinated pollutants and pharmaceuticals using passive sampling methods â€“ Case study. Science of the Total Environment, 2017, 607-608, 1451-1465.	8.0	25
85	Asymmetric response of root-associated fungal communities of an arbuscular mycorrhizal grass and an ectomycorrhizal tree to their coexistence in primary succession. Mycorrhiza, 2017, 27, 775-789.	2.8	18
86	Dynamics of a vertical-flow windrow vermicomposting system. Waste Management and Research, 2017, 35, 1121-1128.	3.9	19
87	Retention of dead standing plant biomass (marcescence) increases subsequent litter decomposition in the soil organic layer. Plant and Soil, 2017, 418, 571-579.	3.7	22
88	Bioremediation of long-term PCB-contaminated soil by white-rot fungi. Journal of Hazardous Materials, 2017, 324, 701-710.	12.4	118
89	Stabilization of soil organic matter by earthworms is connected with physical protection rather than with chemical changes of organic matter. Geoderma, 2017, 289, 29-35.	5.1	81
90	Novel full logistic model for estimation of the estrogenic activity of chemical mixtures. Toxicology, 2016, 359-360, 58-70.	4.2	21

#	Article	IF	Citations
91	Effects of soil substrate quality, microbial diversity and community composition on the plant community during primary succession. Soil Biology and Biochemistry, 2016, 99, 75-84.	8.8	53
92	Source Impact Determination using Airborne and Ground Measurements of Industrial Plumes. Environmental Science & Technology, 2016, 50, 9881-9888.	10.0	22
93	Ecotoxicity and environmental safety related to nano-scale zerovalent iron remediation applications. Applied Microbiology and Biotechnology, 2016, 100, 9809-9819.	3.6	23
94	Comparative assessment of fungal augmentation treatments of a fine-textured and historically oil-contaminated soil. Science of the Total Environment, 2016, 566-567, 250-259.	8.0	24
95	Methane and carbon dioxide flux in the profile of wood ant (<i>Formica aquilonia</i>) nests and the surrounding forest floor during a laboratory incubation. FEMS Microbiology Ecology, 2016, 92, fiw141.	2.7	10
96	Effect of altitude and season on microbial activity, abundance and community structure in Alpine forest soils. FEMS Microbiology Ecology, 2016, 92, fiw008.	2.7	97
97	Terracidiphilus gabretensis gen. nov., sp. nov., an Abundant and Active Forest Soil Acidobacterium Important in Organic Matter Transformation. Applied and Environmental Microbiology, 2016, 82, 560-569.	3.1	67
98	Method for analysis of psychopharmaceuticals in real industrial wastewater and groundwater with suspended organic particulate matter using solid phase extraction disks extraction and ultra-high performance liquid chromatography/time-of-flight mass spectrometry. Journal of Chromatography A, 2016, 1440, 15-22.	3.7	22
99	Combined nano-biotechnology for in-situ remediation of mixed contamination of groundwater by hexavalent chromium and chlorinated solvents. Science of the Total Environment, 2016, 563-564, 822-834.	8.0	83
100	Widely used pharmaceuticals present in the environment revealed as inÂvitro antagonists for human estrogen and androgen receptors. Chemosphere, 2016, 152, 284-291.	8.2	39
101	Enhancing the lipid productivity of yeasts with trace concentrations of iron nanoparticles. Folia Microbiologica, 2016, 61, 329-335.	2.3	10
102	Silvibacterium bohemicum gen. nov. sp. nov., an acidobacterium isolated from coniferous soil in the Bohemian Forest National Park. Systematic and Applied Microbiology, 2016, 39, 14-19.	2.8	31
103	Polycyclic aromatic hydrocarbons degradation and microbial community shifts during co-composting of creosote-treated wood. Journal of Hazardous Materials, 2016, 301, 17-26.	12.4	76
104	Tree diversity and species identity effects on soil fungi, protists and animals are context dependent. ISME Journal, 2016, 10, 346-362.	9.8	307
105	Mycoremediation of Organic Pollutants: Principles, Opportunities, and Pitfalls. Fungal Biology, 2016, , 185-231.	0.6	14
106	Passive sampling of pharmaceuticals and personal care products in aquatic environments. European Journal of Environmental Sciences, 2016, 6, 43-56.	0.2	11
107	Exposure of rats to exogenous endocrine disruptors 17alpha-ethinylestradiol and benzo(a)pyrene and an estrogenic hormone estradiol induces expression of cytochromes P450 involved in their metabolism. Neuroendocrinology Letters, 2016, 37, 84-94.	0.2	4
108	Biotransformation of fluoroquinolone antibiotics by ligninolytic fungi â€“ Metabolites, enzymes and residual antibacterial activity. Chemosphere, 2015, 136, 311-320.	8.2	96

#	Article	IF	Citations
109	Intraspecific variability in allelopathy of Heracleum mantegazzianum is linked to the metabolic profile of root exudates. Annals of Botany, 2015, 115, 821-831.	2.9	26
110	The role of bacteria and protists in nitrogen turnover in ant nest and forest floor material: A laboratory experiment. European Journal of Soil Biology, 2015, 69, 66-73.	3.2	5
111	Combined abiotic and biotic in-situ reduction of hexavalent chromium in groundwater using nZVI and whey: A remedial pilot test. Journal of Hazardous Materials, 2015, 300, 670-679.	12.4	55
112	Changes in soil microbial community functionality and structure in a metal-polluted site: The effect of digestate and fly ash applications. Journal of Environmental Management, 2015, 162, 63-73.	7.8	52
113	Chemical and microbiological characterization of an aged PCB-contaminated soil. Science of the Total Environment, 2015, 533, 177-186.	8.0	67
114	Photochemical degradation of polybrominated diphenyl ethers in microreactor. Research on Chemical Intermediates, 2015, 41, 9373-9381.	2.7	3
115	Biodegradation of endocrineâ€disrupting compounds by ligninolytic fungi: mechanisms involved in the degradation. Environmental Microbiology, 2015, 17, 4822-4834.	3.8	75
116	Anaerobic in situ biodegradation of TNT using whey as an electron donor: a case study. New Biotechnology, 2015, 32, 701-709.	4.4	17
117	Respiration in wood ant (Formica aquilonia) nests as affected by altitudinal and seasonal changes in temperature. Soil Biology and Biochemistry, 2015, 86, 50-57.	8.8	19
118	Effect of digestate and fly ash applications on soil functional properties and microbial communities. European Journal of Soil Biology, 2015, 71, 1-12.	3.2	55
119	Major mechanisms contributing to the macrofauna-mediated slow down of litter decomposition. Soil Biology and Biochemistry, 2015, 91, 23-31.	8.8	32
120	Shifts in Soil Chemical Properties and Bacterial Communities Responding to Biotransformed Dry Olive Residue Used as Organic Amendment. Microbial Ecology, 2015, 70, 231-243.	2.8	10
121	Trace concentrations of iron nanoparticles cause overproduction of biomass and lipids during cultivation of cyanobacteria and microalgae. Journal of Applied Phycology, 2015, 27, 1443-1451.	2.8	101
122	Searching for Heracleum mantegazzianum allelopathy in vitro and in a garden experiment. Biological Invasions, 2015, 17, 987-1003.	2.4	8
123	Assessment of degradation potential of aliphatic hydrocarbons by autochthonous filamentous fungi from a historically polluted clay soil. Science of the Total Environment, 2015, 505, 545-554.	8.0	44
124	A study on 17alpha-ethinylestradiol metabolism in rat and Pleurotus ostreatus. Neuroendocrinology Letters, 2015, 36 Suppl 1, 5-12.	0.2	1
125	Seasonal dynamics of fungal communities in a temperate oak forest soil. New Phytologist, 2014, 201, 269-278.	7.3	300
126	Nanoscale zero-valent iron application for in situ reduction of hexavalent chromium and its effects on indigenous microorganism populations. Science of the Total Environment, 2014, 485-486, 739-747.	8.0	116

#	Article	IF	Citations
127	Litter decomposition along a primary post-mining chronosequence. Biology and Fertility of Soils, 2014, 50, 827-837.	4.3	25
128	When the forest dies: the response of forest soil fungi to a bark beetle-induced tree dieback. ISME Journal, 2014, 8, 1920-1931.	9.8	125
129	Long-term impact of Heracleum mantegazzianum invasion on soil chemical and biological characteristics. Soil Biology and Biochemistry, 2014, 68, 270-278.	8.8	34
130	Bioremediation of PAH-contaminated soil with fungi â€“ From laboratory to field scale. International Biodeterioration and Biodegradation, 2014, 86, 238-247.	3.9	128
131	Sensitive GC/MS determination of 15 isomers of chlorobenzoic acids in accelerated solvent extracts of soils historically contaminated with PCBs and validation of the entire method. International Journal of Environmental Analytical Chemistry, 2014, 94, 822-836.	3.3	11
132	Ecotoxicity and biodegradability of new brominated flame retardants: A review. Ecotoxicology and Environmental Safety, 2014, 110, 153-167.	6.0	112
133	The effect of native and introduced biofuel crops on the composition of soil biota communities. Biomass and Bioenergy, 2014, 60, 137-146.	5.7	17
134	Is the effect of trees on soil properties mediated by soil fauna? A case study from post-mining sites. Forest Ecology and Management, 2013, 309, 87-95.	3.2	161
135	Transcriptional response of ligninā€degrading enzymes to 17Î±â€ethinyloestradiol in two white rots. Microbial Biotechnology, 2013, 6, 300-306.	4.2	7
136	Influence of the bioaccessible fraction of polycyclic aromatic hydrocarbons on the ecotoxicity of historically contaminated soils. Journal of Hazardous Materials, 2013, 254-255, 116-124.	12.4	53
137	Chlorobenzoic acid degradation by Lentinus (Panus) tigrinus: In vivo and in vitro mechanistic study-evidence for P-450 involvement in the transformation. Journal of Hazardous Materials, 2013, 260, 975-983.	12.4	14
138	Soil fauna increase nitrogen loss in tilled soil with legume but reduce nitrogen loss in non-tilled soil without legume. Soil Biology and Biochemistry, 2013, 60, 105-112.	8.8	14
139	Estimation of fungal biomass in forest litter and soil. Fungal Ecology, 2013, 6, 1-11.	1.6	142
140	Responses of the extracellular enzyme activities in hardwood forest to soil temperature and seasonality and the potential effects of climate change. Soil Biology and Biochemistry, 2013, 56, 60-68.	8.8	226
141	Does the addition of leaf litter affect soil respiration in the same way as addition of macrofauna excrements (of Bibio marci Diptera larvae) produced from the same litter?. Applied Soil Ecology, 2013, 72, 7-13.	4.3	21
142	Dominant trees affect microbial community composition and activity in post-mining afforested soils. Soil Biology and Biochemistry, 2013, 56, 105-115.	8.8	101
143	Biotransformation of the Antibiotic Agent Flumequine by Ligninolytic Fungi and Residual Antibacterial Activity of the Transformation Mixtures. Environmental Science & Technology, 2013, 47, 14128-14136.	10.0	37
144	Soil biota in post-mining sites along a climatic gradient in the USA: Simple communities in shortgrass prairie recover faster than complex communities in tallgrass prairie and forest. Soil Biology and Biochemistry, 2013, 67, 212-225.	8.8	46

#	Article	IF	Citations
145	Humus accumulation, humification, and humic acid composition in soils of two post-mining chronosequences after coal mining. Journal of Soils and Sediments, 2013, 13, 491-500.	3.0	56
146	Identification of regioisomers and enantiomers of triacylglycerols in different yeasts using reversedâ€• and chiralâ€phase <scp>LC</scp>â€“<scp>MS</scp>. Journal of Separation Science, 2013, 36, 3310-3320.	2.5	28
147	Soil Food Web Changes during Spontaneous Succession at Post Mining Sites: A Possible Ecosystem Engineering Effect on Food Web Organization?. PLoS ONE, 2013, 8, e79694.	2.5	46
148	Changes in soil microbial communities as affected by intensive cattle husbandry. Applied Soil Ecology, 2012, 58, 56-65.	4.3	24
149	Mechanistic Study of 17Î±-Ethinylestradiol Biodegradation by Pleurotus ostreatus: Tracking of Extracelullar and Intracelullar Degradation Mechanisms. Environmental Science & Technology, 2012, 46, 13377-13385.	10.0	36
150	TiO2 powders synthesized by pressurized fluid extraction and supercritical drying: Effect of water and methanol on structural properties and purity. Materials Research Bulletin, 2012, 47, 3573-3579.	5.2	23
151	Biodegradation of Aromatic Pollutants by Ligninolytic Fungal Strains. Environmental Science and Engineering, 2012, , 291-316.	0.2	6
152	Nutrient addition retards decomposition and C immobilization in two wet grasslands. Hydrobiologia, 2012, 692, 67-81.	2.0	13
153	Hormonal activities of new brominated flame retardants. Chemosphere, 2012, 87, 820-824.	8.2	53
154	Biodegradation of PCBs by ligninolytic fungi and characterization of the degradation products. Chemosphere, 2012, 88, 1317-1323.	8.2	108
155	Laccase activity profiling and gene expression in PCB-degrading cultures of Trametes versicolor. International Biodeterioration and Biodegradation, 2012, 71, 22-28.	3.9	20
156	Chemical composition of litter affects the growth and enzyme production by the saprotrophic basidiomycete Hypholoma fasciculare. Fungal Ecology, 2011, 4, 417-426.	1.6	34
157	Determination of 15 isomers of chlorobenzoic acid in soil samples using accelerated sample extraction followed by liquid chromatography. Talanta, 2011, 84, 1141-1147.	5.5	8
158	Transformation of Quercus petraea litter: successive changes in litter chemistry are reflected in differential enzyme activity and changes in the microbial community composition. FEMS Microbiology Ecology, 2011, 75, 291-303.	2.7	198
159	Functional adaptation of microbial communities from jet fuel-contaminated soil under bioremediation treatment: simulation of pollutant rebound. FEMS Microbiology Ecology, 2011, 78, 137-149.	2.7	20
160	Biodegradation of chlorobenzoic acids by ligninolytic fungi. Journal of Hazardous Materials, 2011, 196, 386-394.	12.4	34
161	The effect of lignin photodegradation on decomposability of Calamagrostis epigeios grass litter. Biodegradation, 2011, 22, 1247-1254.	3.0	35
162	Deep, subsurface microflora after excavation respiration and biomass and its potential role in degradation of fossil organic matter. Folia Microbiologica, 2011, 56, 389-396.	2.3	23

#	Article	IF	Citations
163	Lentinus (Panus) tigrinus augmentation of a historically contaminated soil: Matrix decontamination and structure and function of the resident bacterial community. Journal of Hazardous Materials, 2011, 186, 1263-1270.	12.4	20
164	New in vitro reporter gene bioassays for screening of hormonal active compounds in the environment. Applied Microbiology and Biotechnology, 2010, 88, 839-847.	3.6	30
165	Small-scale distribution of extracellular enzymes, fungal, and bacterial biomass in Quercus petraea forest topsoil. Biology and Fertility of Soils, 2010, 46, 717-726.	4.3	77
166	Trachydiscus minutus, a new biotechnological source of eicosapentaenoic acid. Folia Microbiologica, 2010, 55, 265-269.	2.3	48
167	Bioaccumulation of silver in ectomycorrhizal and saprobic macrofungi from pristine and polluted areas. Science of the Total Environment, 2010, 408, 2733-2744.	8.0	102
168	An efficient PAH-degrading Lentinus (Panus) tigrinus strain: Effect of inoculum formulation and pollutant bioavailability in solid matrices. Journal of Hazardous Materials, 2010, 183, 669-676.	12.4	47
169	Super/subcritical fluid extractions for preparation of the crystalline titania. Journal of Supercritical Fluids, 2010, 52, 215-221.	3.2	28
170	In vivo and in vitro polycyclic aromatic hydrocarbons degradation by Lentinus (Panus) tigrinus CBS 577.79. Bioresource Technology, 2010, 101, 3004-3012.	9.6	56
171	Separation of PCBs by liquid chromatography on reversed phase sub-2-micron particle columns. Talanta, 2010, 80, 1849-1855.	5.5	11
172	Distribution of microbial biomass and activity of extracellular enzymes in a hardwood forest soil reflect soil moisture content. Applied Soil Ecology, 2010, 46, 177-182.	4.3	119
173	Inoculum carrier and contaminant bioavailability affect fungal degradation performances of PAH-contaminated solid matrices from a wood preservation plant. Chemosphere, 2010, 79, 855-864.	8.2	36
174	Estrogenic and androgenic activity of PCBs, their chlorinated metabolites and other endocrine disruptors estimated with two in vitro yeast assays. Science of the Total Environment, 2009, 407, 5921-5925.	8.0	41
175	Influence of soil organic matter decomposition on arbuscular mycorrhizal fungi in terms of asymbiotic hyphal growth and root colonization. Mycorrhiza, 2009, 19, 255-266.	2.8	79
176	Organic matter transformation and detoxification in dry olive mill residue by the saprophytic fungus Paecilomyces farinosus. Process Biochemistry, 2009, 44, 216-225.	3.7	37
177	Irpex lacteus, a white-rot fungus with biotechnological potential â€" review. Folia Microbiologica, 2009, 54, 375-390.	2.3	85
178	Short-term impact of dry olive mill residue addition to soil on the resident microbiota. Bioresource Technology, 2009, 100, 6098-6106.	9.6	54
179	Very-long-chain iso and anteiso branched fatty acids in N-acylphosphatidylethanolamines from a natural cyanobacterial mat of Calothrix sp.. Phytochemistry, 2009, 70, 655-663.	2.9	14
180	Microbial transformation of synthetic estrogen 17Î±-ethinylestradiol. Environmental Pollution, 2009, 157, 3325-3335.	7.5	88

#	Article	IF	Citations
181	Biodegradation of endocrine-disrupting compounds and suppression of estrogenic activity by ligninolytic fungi. Chemosphere, 2009, 75, 745-750.	8.2	165
182	Immobilized Inocula of White-Rot Fungi Accelerate both Detoxification and Organic Matter Transformation in Two-Phase Dry Olive-Mill Residue. Journal of Agricultural and Food Chemistry, 2009, 57, 5452-5460.	5.2	20
183	Hyphenated ultra high-performance liquid chromatographyâ€“Nano Quantity Analyte Detector technique for determination of compounds with low UV absorption. Journal of Chromatography A, 2009, 1216, 5774-5778.	3.7	19
184	Degradation of PAHs by ligninolytic enzymes of Irpex lacteus. Folia Microbiologica, 2008, 53, 289-294.	2.3	71
185	Biodegradation of methyl tert-butyl ether using bacterial strains. Folia Microbiologica, 2008, 53, 411-416.	2.3	2
186	Activity and spatial distribution of lignocellulose-degrading enzymes during forest soil colonization by saprotrophic basidiomycetes. Enzyme and Microbial Technology, 2008, 43, 186-192.	3.2	92
187	Molecular structure effects in photodegradation of phenol and its chlorinated derivatives with phthalocyanines. Applied Catalysis B: Environmental, 2008, 80, 321-326.	20.2	33
188	Spatial variability of enzyme activities and microbial biomass in the upper layers of Quercus petraea forest soil. Soil Biology and Biochemistry, 2008, 40, 2068-2075.	8.8	264
189	Enzyme activities and microbial biomass in topsoil layer during spontaneous succession in spoil heaps after brown coal mining. Soil Biology and Biochemistry, 2008, 40, 2107-2115.	8.8	126
190	PAH desorption from river floodplain soils using supercritical fluid extraction. Environmental Pollution, 2008, 156, 745-752.	7.5	30
191	Synthesis of zirconia-immobilized copper chelates for catalytic decomposition of hydrogen peroxide and the oxidation of polycyclic aromatic hydrocarbons. Chemosphere, 2008, 72, 1721-1726.	8.2	9
192	Differential degradation of oak (Quercus petraea) leaf litter by litter-decomposing basidiomycetes. Research in Microbiology, 2007, 158, 447-455.	2.1	90
193	Photoelectrochemical and photocatalytic properties of titanium (IV) oxide nanoparticulate layers. Thin Solid Films, 2007, 515, 8455-8460.	1.8	15
194	Bioavailability modification and fungal biodegradation of PAHs in aged industrial soils. International Biodeterioration and Biodegradation, 2007, 60, 165-170.	3.9	65
195	Lamellar micelles-mediated synthesis of nanoscale thick sheets of titania. Materials Letters, 2007, 61, 2931-2934.	2.6	11
196	Production of lignocellulose-degrading enzymes and degradation of leaf litter by saprotrophic basidiomycetes isolated from a Quercus petraea forest. Soil Biology and Biochemistry, 2007, 39, 2651-2660.	8.8	155
197	Breakdown products on metabolic pathway of degradation of benz[a]anthracene by a ligninolytic fungus. Chemosphere, 2006, 64, 560-564.	8.2	64
198	Enzymatic degradation of anthracene, dibenzothiophene and pyrene by manganese peroxidase in media containing acetone. Chemosphere, 2006, 64, 408-414.	8.2	154

#	Article	IF	Citations
199	Purification of a new manganese peroxidase of the white-rot fungus Irpex lacteus, and degradation of polycyclic aromatic hydrocarbons by the enzyme. Research in Microbiology, 2006, 157, 248-253.	2.1	134
200	Effect of methyltert-butyl ether in standard tests for mutagenicity and environmental toxicity. Environmental Toxicology, 2006, 21, 599-605.	4.0	8
201	Non thermal preparation of photoactive titanium (IV) oxide thin layers. Thin Solid Films, 2006, 495, 18-23.	1.8	27
202	Partial photocatalytic oxidation of cyclopentene over titanium(IV) oxide. Journal of Molecular Catalysis A, 2005, 242, 62-67.	4.8	28
203	Degradation of polycyclic aromatic hydrocarbons by hydrogen peroxide catalyzed by heterogeneous polymeric metal chelates. Applied Catalysis B: Environmental, 2005, 59, 267-274.	20.2	19
204	â€œSelf activationâ€properties of the nanophase photocatalytic titania precursors. Reaction Kinetics and Catalysis Letters, 2005, 86, 281-289.	0.6	1
205	Application of Supercritical Fluid Extraction (SFE) to Predict Bioremediation Efficacy of Long-Term Composting of PAH-Contaminated Soil. Environmental Science & Technology, 2005, 39, 8448-8452.	10.0	29
206	Structure selectivity in degradation and translocation of polychlorinated biphenyls (Delor 103) with a Pleurotus ostreatus (oyster mushroom) culture. Chemosphere, 2005, 61, 1370-1378.	8.2	35
207	Ligninolytic fungi in bioremediation: extracellular enzyme production and degradation rate. Soil Biology and Biochemistry, 2004, 36, 1545-1551.	8.8	245
208	Degradation of BTEX and PAHs by Co(II) and Cu(II)-based radical-generating systems. Applied Catalysis B: Environmental, 2004, 51, 159-164.	20.2	23
209	Use of fungal technology in soil remediation: A Case Study. Water, Air and Soil Pollution, 2003, 3, 5-14.	0.8	21
210	Locally accumulated extractable compounds in mycorrhizal parts of maize roots suppress the growth ofHyphae ofGlomus intraradices. Folia Geobotanica, 2003, 38, 125-138.	0.9	4
211	Compost-Mediated Removal of Polycyclic Aromatic Hydrocarbons from Contaminated Soil. Archives of Environmental Contamination and Toxicology, 2003, 44, 336-342.	4.1	79
212	Mycoremediation of PAH-contaminated soil. Folia Microbiologica, 2002, 47, 255-258.	2.3	64
213	Bioremediation of PAH-contaminated soil by composting: A case study. Folia Microbiologica, 2002, 47, 696-700.	2.3	34
214	Study of fungal degradation products of polycyclic aromatic hydrocarbons using gas chromatography with ion trap mass spectrometry detection. Journal of Chromatography A, 2002, 974, 213-222.	3.7	88
215	Hydrocarbon deposition and soil microflora as affected by highway traffic. Environmental Pollution, 2001, 113, 255-262.	7.5	42
216	Preparation of titania mesoporous materials using a surfactant-mediated solâ€“gel method. Journal of Materials Chemistry, 2001, 11, 644-651.	6.7	116

#	Article	IF	Citations
217	Irpex lacteus , a white rot fungus applicable to water and soil bioremediation. Applied Microbiology and Biotechnology, 2000, 54, 850-853.	3.6	119
218	Extracellular oxidative enzyme production and PAH removal in soil by exploratory mycelium of white rot fungi. Biodegradation, 1999, 10, 159-168.	3.0	129
219	Asymmetric Interaction Between Two Mycorrhizal Fungal Guilds and Consequences for the Establishment of Their Host Plants. Frontiers in Plant Science, 0, 13, .	3.6	2