

Ondrej Uhlik

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,878
citations

236612

25
h-index

197535

49
g-index

54
all docs

54
docs citations

54
times ranked

4499
citing authors

#	ARTICLE	IF	CITATIONS
1	PHYTOREMEDIATION. Annual Review of Plant Biology, 2005, 56, 15-39.	8.6	1,728
2	Phytoextraction of Heavy Metals: A Promising Tool for Clean-Up of Polluted Environment?. Frontiers in Plant Science, 2018, 9, 1476.	1.7	294
3	Biphenyl-utilizing bacteria and their functional genes in a pine root zone contaminated with polychlorinated biphenyls (PCBs). ISME Journal, 2007, 1, 134-148.	4.4	198
4	Identification of Bacteria Utilizing Biphenyl, Benzoate, and Naphthalene in Long-Term Contaminated Soil. PLoS ONE, 2012, 7, e40653.	1.1	124
5	Stable isotope probing in the metagenomics era: A bridge towards improved bioremediation. Biotechnology Advances, 2013, 31, 154-165.	6.0	114
6	Biphenyl-Metabolizing Bacteria in the Rhizosphere of Horseradish and Bulk Soil Contaminated by Polychlorinated Biphenyls as Revealed by Stable Isotope Probing. Applied and Environmental Microbiology, 2009, 75, 6471-6477.	1.4	102
7	Effects of Secondary Plant Metabolites on Microbial Populations: Changes in Community Structure and Metabolic Activity in Contaminated Environments. International Journal of Molecular Sciences, 2016, 17, 1205.	1.8	102
8	The invisible life inside plants: Deciphering the riddles of endophytic bacterial diversity. Biotechnology Advances, 2020, 44, 107614.	6.0	79
9	DNA-based stable isotope probing: a link between community structure and function. Science of the Total Environment, 2009, 407, 3611-3619.	3.9	77
10	Matrix-Assisted Laser Desorption Ionization (MALDI)-Time of Flight Mass Spectrometry- and MALDI Biotyper-Based Identification of Cultured Biphenyl-Metabolizing Bacteria from Contaminated Horseradish Rhizosphere Soil. Applied and Environmental Microbiology, 2011, 77, 6858-6866.	1.4	77
11	Phyto/rhizoremediation studies using long-term PCB-contaminated soil. Environmental Science and Pollution Research, 2009, 16, 817-829.	2.7	76
12	Whole-Cell MALDI-TOF MS Versus 16S rRNA Gene Analysis for Identification and Dereplication of Recurrent Bacterial Isolates. Frontiers in Microbiology, 2018, 9, 1294.	1.5	76
13	Plant secondary metabolite-induced shifts in bacterial community structure and degradative ability in contaminated soil. Applied Microbiology and Biotechnology, 2013, 97, 9245-9256.	1.7	56
14	Synergistic Processing of Biphenyl and Benzoate: Carbon Flow Through the Bacterial Community in Polychlorinated-Biphenyl-Contaminated Soil. Scientific Reports, 2016, 6, 22145.	1.6	55
15	Pseudomonads Rule Degradation of Polyaromatic Hydrocarbons in Aerated Sediment. Frontiers in Microbiology, 2015, 6, 1268.	1.5	54
16	Whole-cell MALDI-TOF: Rapid screening method in environmental microbiology. International Biodeterioration and Biodegradation, 2012, 69, 82-86.	1.9	46
17	Plants Rather than Mineral Fertilization Shape Microbial Community Structure and Functional Potential in Legacy Contaminated Soil. Frontiers in Microbiology, 2016, 7, 995.	1.5	43
18	Plant-microorganism interactions in bioremediation of polychlorinated biphenyl-contaminated soil. New Biotechnology, 2012, 30, 15-22.	2.4	42

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19	Secondary compound hypothesis revisited: Selected plant secondary metabolites promote bacterial degradation of cis-1,2-dichloroethylene (cDCE). <i>Scientific Reports</i> , 2017, 7, 8406.	1.6	38
20	Complete genome sequence of <i>Pseudomonas alcaliphila</i> JAB1 (=DSM 26533), a versatile degrader of organic pollutants. <i>Standards in Genomic Sciences</i> , 2018, 13, 3.	1.5	36
21	Linking toxicity profiles to pollutants in sludge and sediments. <i>Journal of Hazardous Materials</i> , 2017, 321, 672-680.	6.5	34
22	Novel PCB-degrading <i>Rhodococcus</i> strains able to promote plant growth for assisted rhizoremediation of historically polluted soils. <i>PLoS ONE</i> , 2019, 14, e0221253.	1.1	31
23	Bacterial succession in oil-contaminated soil under phytoremediation with poplars. <i>Chemosphere</i> , 2020, 243, 125242.	4.2	30
24	Diversity of chlorobiphenyl-metabolizing bacteria and their biphenyl dioxygenases in contaminated sediment. <i>Chemosphere</i> , 2013, 93, 1548-1555.	4.2	28
25	Differential Impacts of Willow and Mineral Fertilizer on Bacterial Communities and Biodegradation in Diesel Fuel Oil-Contaminated Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 837.	1.5	26
26	Bacterial Biotransformation of Pentachlorophenol and Micropollutants Formed during Its Production Process. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1146.	1.2	25
27	Bioremediation of chlorophenol-contaminated sawmill soil using pilot-scale bioreactors under consecutive anaerobic-aerobic conditions. <i>Chemosphere</i> , 2019, 227, 670-680.	4.2	25
28	Microbial communities biostimulated by ethanol during uranium (VI) bioremediation in contaminated sediment as shown by stable isotope probing. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 453-464.	3.3	22
29	Diversity and phylogenetic composition of bacterial communities and their association with anthropogenic pollutants in sewage sludge. <i>Chemosphere</i> , 2020, 238, 124629.	4.2	21
30	Analysis of the biodegradative and adaptive potential of the novel polychlorinated biphenyl degrader <i>Rhodococcus</i> sp. WAY2 revealed by its complete genome sequence. <i>Microbial Genomics</i> , 2020, 6, .	1.0	20
31	Approaches for diversity analysis of cultivable and non-cultivable bacteria in real soil. <i>Plant, Soil and Environment</i> , 2009, 55, 389-396.	1.0	18
32	Bacterial community structure in treated sewage sludge with mesophilic and thermophilic anaerobic digestion. <i>Folia Microbiologica</i> , 2015, 60, 531-539.	1.1	18
33	Microbial Communities in Soils and Endosphere of <i>Solanum tuberosum</i> L. and their Response to Long-Term Fertilization. <i>Microorganisms</i> , 2020, 8, 1377.	1.6	17
34	Diversity of root-associated microbial populations of <i>Tamarix parviflora</i> cultivated under various conditions. <i>Applied Soil Ecology</i> , 2018, 125, 264-272.	2.1	16
35	Bacterial Degradation of Polychlorinated Biphenyls. , 2010, , 347-366.		16
36	<i>Pseudogemmobacter bohemicus</i> gen. nov., sp. nov., a novel taxon from the Rhodobacteraceae family isolated from heavy-metal-contaminated sludge. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 2401-2407.	0.8	14

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37	Bacterial acquisition of hexachlorobenzene-derived carbon in contaminated soil. <i>Chemosphere</i> , 2014, 113, 141-145.	4.2	13
38	Advances in Phytoremediation and Rhizoremediation. <i>Soil Biology</i> , 2009, , 257-277.	0.6	12
39	Exploring the Potential of <i>Micrococcus luteus</i> Culture Supernatant With Resuscitation-Promoting Factor for Enhancing the Culturability of Soil Bacteria. <i>Frontiers in Microbiology</i> , 2021, 12, 685263.	1.5	12
40	Affinity chromatography reveals RuBisCO as an ecdysteroid-binding protein. <i>Steroids</i> , 2008, 73, 1433-1440.	0.8	10
41	Biphenyl 2,3-Dioxygenase in <i>Pseudomonas alcaliphila</i> JAB1 Is Both Induced by Phenolics and Monoterpenes and Involved in Their Transformation. <i>Frontiers in Microbiology</i> , 2021, 12, 657311.	1.5	8
42	Response of Soil Microbes and Soil Enzymatic Activity to 20 Years of Fertilization. <i>Agronomy</i> , 2020, 10, 1542.	1.3	7
43	Soil microbial communities following 20 years of fertilization and crop rotation practices in the Czech Republic. <i>Environmental Microbiomes</i> , 2022, 17, 13.	2.2	7
44	Affinity chromatography as the method for brassinosteroid-binding protein isolation. <i>Journal of Biotechnology</i> , 2010, 150, 490-490.	1.9	6
45	<i>Kocuria</i> Bacterial Isolates from Radioactive Springs of Jáchymov spa (Joachimsthal) as Sources of Polyunsaturated Fatty Acids. <i>Lipids</i> , 2019, 54, 177-187.	0.7	5
46	Effect of chelated iron activated peroxydisulfate oxidation on perchloroethene-degrading microbial consortium. <i>Chemosphere</i> , 2021, 266, 128928.	4.2	5
47	Genomic analysis of dibenzofuran-degrading <i>Pseudomonas veronii</i> strain Pvy reveals its biodegradative versatility. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	5
48	Predominant Biphenyl Dioxygenase From Legacy Polychlorinated Biphenyl (PCB)-Contaminated Soil Is a Part of Unusual Gene Cluster and Transforms Flavone and Flavanone. <i>Frontiers in Microbiology</i> , 2021, 12, 644708.	1.5	4
49	Hunting Down Frame Shifts: Ecological Analysis of Diverse Functional Gene Sequences. <i>Frontiers in Microbiology</i> , 2015, 6, 1267.	1.5	3
50	Genomic analysis of <i>Acinetobacter pittii</i> CEP14 reveals its extensive biodegradation capabilities, including cometabolic degradation of cis-1,2-dichloroethene. <i>Antonie Van Leeuwenhoek</i> , 2022, 115, 1041-1057.	0.7	3
51	A novel approach to analysis microbial population in PCB-contaminated sediment. <i>Journal of Biotechnology</i> , 2008, 136, S703.	1.9	0