

Josef TrÅŕgl

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

914
citations

566801

15
h-index

500791

28
g-index

46
all docs

46
docs citations

46
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber-Optic Chemical Sensors and Fiber-Optic Bio-Sensors. <i>Sensors</i> , 2015, 15, 25208-25259.	2.1	160
2	Enzyme activities and microbial biomass in topsoil layer during spontaneous succession in spoil heaps after brown coal mining. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2107-2115.	4.2	126
3	Magnetically separable reactive sorbent based on the CeO ₂ /Fe ₃ O ₄ composite and its utilization for rapid degradation of the organophosphate pesticide parathion methyl and certain nerve agents. <i>Chemical Engineering Journal</i> , 2015, 262, 747-755.	6.6	55
4	Effect of various chemical oxidation agents on soil microbial communities. <i>Chemical Engineering Journal</i> , 2017, 314, 257-265.	6.6	46
5	Soil Microbial Communities and Enzyme Activities after Long-Term Application of Inorganic and Organic Fertilizers at Different Depths of the Soil Profile. <i>Sustainability</i> , 2019, 11, 3251.	1.6	37
6	Potential phytomanagement of military polluted sites and biomass production using biofuel crop <i>Miscanthus x giganteus</i> . <i>Environmental Pollution</i> , 2019, 249, 330-337.	3.7	32
7	<i>Pseudomonas fluorescens</i> HK44: Lessons Learned from a Model Whole-Cell Bioreporter with a Broad Application History. <i>Sensors</i> , 2012, 12, 1544-1571.	2.1	29
8	Biodegradation of Spilled Diesel Fuel in Agricultural Soil: Effect of Humates, Zeolite, and Bioaugmentation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	0.8	27
9	Electrospun Antimicrobial PVDF/DTAB Nanofibrous Membrane for Air Filtration: Effect of DTAB on Structure, Morphology, Adhesion, and Antibacterial Properties. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700415.	1.7	21
10	Bioprospecting of a Novel Plant Growth-Promoting Bacterium <i>Bacillus altitudinis</i> KP-14 for Enhancing <i>Miscanthus x giganteus</i> Growth in Metals Contaminated Soil. <i>Biology</i> , 2020, 9, 305.	1.3	21
11	Preliminary Results on Growing Second Generation Biofuel Crop <i>Miscanthus X Giganteus</i> at The Polluted Military Site in Ukraine. <i>Nova Biotechnologica Et Chimica</i> , 2016, 15, 77-84.	0.1	19
12	Removal of nitrates from simulated ion-exchange brines with <i>Paracoccus denitrificans</i> encapsulated in Lentikats Biocatalyst. <i>Desalination</i> , 2011, 275, 82-86.	4.0	18
13	Effect of Growing <i>Miscanthus x giganteus</i> on Soil Microbial Communities in Post-Military Soil. <i>Sustainability</i> , 2018, 10, 4021.	1.6	18
14	Potential role of plant growth-promoting bacteria in <i>Miscanthus x giganteus</i> phytotechnology applied to the trace elements contaminated soils. <i>International Biodeterioration and Biodegradation</i> , 2020, 155, 105103.	1.9	17
15	Metals uptake behaviour in <i>Miscanthus x giganteus</i> plant during growth at the contaminated soil from the military site in Sliač, Slovakia. <i>Polish Journal of Chemical Technology</i> , 2018, 20, 1-7.	0.3	17
16	Three examples of nitrogen removal from industrial wastewater using Lentikats Biotechnology. <i>Desalination</i> , 2011, 280, 191-196.	4.0	16
17	Phytostabilization of a contaminated military site using <i>Miscanthus</i> and soil amendments. <i>Journal of Environmental Quality</i> , 2021, 50, 1220-1232.	1.0	16
18	Stability of antibacterial modification of nanofibrous PA6/DTAB membrane during air filtration. <i>Materials Science and Engineering C</i> , 2019, 96, 807-813.	3.8	15

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19	Physiological Response of <i>Miscanthus x giganteus</i> to Plant Growth Regulators in Nutritionally Poor Soil. <i>Plants</i> , 2020, 9, 194.	1.6	14
20	Removal of nitrates from high-salinity wastewaters from desulphurization process with denitrifying bacteria encapsulated in Lentikats Biocatalyst. <i>International Journal of Environmental Science and Technology</i> , 2012, 9, 425-432.	1.8	13
21	Biodegradation of High Concentrations of Aliphatic Hydrocarbons in Soil from a Petroleum Refinery: Implications for Applicability of New Actinobacterial Strains. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1855.	1.3	13
22	Tourist Traffic Significantly Affects Microbial Communities of Sandstone Cave Sediments in the Protected Landscape Area "Labská Páskovce" (Czech Republic): Implications for Regulatory Measures. <i>Sustainability</i> , 2018, 10, 396.	1.6	13
23	Enhanced Carbon Sequestration in Marginal Land Upon Shift towards Perennial <i>Miscanthus giganteus</i> : A Case Study in North-Western Czechia. <i>Agronomy</i> , 2021, 11, 293.	1.3	13
24	Impact of plant growth regulators and soil properties on <i>Miscanthus x giganteus</i> biomass parameters and uptake of metals in military soils. <i>Reviews on Environmental Health</i> , 2019, 34, 283-291.	1.1	12
25	Phospholipid Fatty Acids as Physiological Indicators of <i>Paracoccus denitrificans</i> Encapsulated in Silica Sol-Gel Hydrogels. <i>Sensors</i> , 2015, 15, 3426-3434.	2.1	11
26	Indication of Importance of Including Soil Microbial Characteristics into Biotope Valuation Method. <i>Sustainability</i> , 2016, 8, 253.	1.6	11
27	Changes in the Content of Heavy Metals in Břlina River during 2012–2017: Effects of Flood and Industrial Inputs. <i>Water (Switzerland)</i> , 2019, 11, 481.	1.2	11
28	<i>Miscanthus x giganteus</i> role in phytodegradation and changes in bacterial community of soil contaminated by petroleum industry. <i>Ecotoxicology and Environmental Safety</i> , 2021, 224, 112630.	2.9	11
29	Microarthropods and vegetation as biological indicators of soil quality studied in poor sandy sites at former military facilities. <i>Land Degradation and Development</i> , 2022, 33, 358-367.	1.8	11
30	<i>Miscanthus giganteus</i> Phytoremediation of Soil Contaminated with Trace Elements as Influenced by the Presence of Plant Growth-Promoting Bacteria. <i>Agronomy</i> , 2022, 12, 771.	1.3	11
31	The Repetitive Detection of Toluene with Bioluminescence Bioreporter <i>Pseudomonas putida</i> TVA8 Encapsulated in Silica Hydrogel on an Optical Fiber. <i>Materials</i> , 2016, 9, 467.	1.3	10
32	Evaluation of the <i>Miscanthus</i> \times <i>giganteus</i> short term impacts on enhancing the quality of agricultural soils affected by single and/or multiple contaminants. <i>Environmental Technology and Innovation</i> , 2021, 24, 101890.	3.0	10
33	Estimation of Hg(II) in Soil Samples by Bioluminescent Bacterial Bioreporter <i>E. coli</i> ARL1, and the Effect of Humic Acids and Metal Ions on the Biosensor Performance. <i>Sensors</i> , 2020, 20, 3138.	2.1	8
34	Stress Response of <i>Miscanthus</i> Plants and Soil Microbial Communities: A Case Study in Metals and Hydrocarbons Contaminated Soils. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1866.	1.3	8
35	Estimation of the quantity of bacteria encapsulated in Lentikats Biocatalyst via phospholipid fatty acids content: a preliminary study. <i>Folia Microbiologica</i> , 2013, 58, 135-140.	1.1	7
36	Plant priming changes physiological properties and lignin content in <i>Miscanthus x giganteus</i> . <i>Industrial Crops and Products</i> , 2021, 174, 114185.	2.5	7

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37	Repetitive Detection of Aromatic Hydrocarbon Contaminants with Bioluminescent Bioreporters Attached on Tapered Optical Fiber Elements. <i>Sensors</i> , 2020, 20, 3237.	2.1	6
38	Calorific values of <i>Miscanthus x giganteus</i> biomass cultivated under suboptimal conditions in marginal soils. <i>Studia Oecologica</i> , 2020, 13, 61-67.	0.2	6
39	Preparation of iron, aluminium, calcium, magnesium, and zinc humates for environmental applications. <i>Chemical Papers</i> , 2014, 68, .	1.0	5
40	Cultivation of <i>Saccharomyces cerevisiae</i> with Feedback Regulation of Glucose Concentration Controlled by Optical Fiber Glucose Sensor. <i>Sensors</i> , 2021, 21, 565.	2.1	5
41	Application of Lentikats Biotechnology for removal of nitrates from ion-exchange brines: Implications for adaptation of encapsulated denitrifiers. <i>African Journal of Biotechnology</i> , 2011, 10, .	0.3	5
42	A single-parameter logistic equation for fitting concentration-response curves from standard acute ecotoxicity assays. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 2412-2416.	2.2	1
43	Whole-cell detectors of contaminants constructed by immobilization of bioreporters in form of biofilm on special optical fiber elements. , 2019, , .		1
44	Response to Grygar (2020) comments on "Potential phytomanagement of military polluted sites and biomass production using biofuel crop <i>Miscanthus x giganteus</i> " • Pidlisnyuk et al. (2019). <i>Environmental Pollution</i> , 261: 113038. <i>Environmental Pollution</i> , 2021, 272, 115037.	3.7	1
45	Nanostructured Surface and Antimicrobial Properties of Chemically Modified Polymer Foils. <i>ChemistrySelect</i> , 2019, 4, 4382-4391.	0.7	0
46	Analysis of microbial phospholipids in processes of biomonitring of soil condition. <i>IzvestiĀ Vuzov: PrikladnaĀ HimiĀ I BiotehnologiĀ</i> , 2019, 9, 44-52.	0.1	0