Åukasz Åawniczak

List of Publications by Year
in descending order

38	1,691	279487	329751
papers	citations	23 h-index	37 g-index

38	38	38	1733
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physicomechanical and Antimicrobial Characteristics of Cement Composites with Selected Nano-Sized Oxides and Binary Oxide Systems. Materials, 2022, 15, 661.	1.3	10
2	Unusual gasâ€phase hydration efficiency of magnesiumâ€“adenosine complex. Rapid Communications in Mass Spectrometry, 2021, 35, e8982.	0.7	1
3	Novel esterquat-based herbicidal ionic liquids incorporating MCPA and MCPP for simultaneous stimulation of maize growth and fighting cornflower. Ecotoxicology and Environmental Safety, 2021, 208, 111595.	2.9	11
4	How to accurately assess surfactant biodegradation-impact of sorption on the validity of results. Applied Microbiology and Biotechnology, 2020, 104, 1-12.	1.7	48
5	Herbicidal Ionic Liquids: A Promising Future for Old Herbicides? Review on Synthesis, Toxicity, Biodegradation, and Efficacy Studies. Journal of Agricultural and Food Chemistry, 2020, 68, 10456-10488.	2.4	44
6	Double-Action Herbicidal Ionic Liquids Based on Dicamba Esterquats with 4-CPA, 2,4-D, MCPA, MCPP, and Clopyralid Anions. ACS Sustainable Chemistry and Engineering, 2020, 8, 14584-14594.	3.2	21
7	Transformation of herbicides into dual function quaternary tropinium salts. New Journal of Chemistry, 2020, 44, 8869-8877.	1.4	17
8	Biodegradation of Conventional and Emerging Pollutants. Molecules, 2020, 25, 1186.	1.7	1
9	Quantifying the Mineralization of ¹³C-Labeled Cations and Anions Reveals Differences in Microbial Biodegradation of Herbicidal Ionic Liquids between Water and Soil. ACS Sustainable Chemistry and Engineering, 2020, 8, 3412-3426.	3.2	11
10	Microbial Degradation of Hydrocarbonsâ€”Basic Principles for Bioremediation: A Review. Molecules, 2020, 25, 856.	1.7	181
11	Gasâ€phase hydration of Mg²⁺ complexes with deprotonated uracil, thymine, uridine, and thymidine. Journal of Mass Spectrometry, 2020, 55, e4504.	0.7	2
12	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. Ecotoxicology and Environmental Safety, 2019, 181, 172-179.	2.9	10
13	Plant growth promoting N-alkyltropinium bromides enhance seed germination, biomass accumulation and photosynthesis parameters of maize (Zea mays). New Journal of Chemistry, 2019, 43, 5805-5812.	1.4	14
14	Effect of bioaugmentation on long-term biodegradation of diesel/biodiesel blends in soil microcosms. Science of the Total Environment, 2019, 671, 948-958.	3.9	43
15	Comparison of metalworking fluids biodegradation efficiency by autochthonous and environmental communities. Journal of Environmental Management, 2019, 232, 625-635.	3.8	11
16	Esterquat herbicidal ionic liquids (HILs) with two different herbicides: evaluation of activity and phytotoxicity. New Journal of Chemistry, 2018, 42, 9819-9827.	1.4	36
17	Biodiversity of soil bacteria exposed to sub-lethal concentrations of phosphonium-based ionic liquids: Effects of toxicity and biodegradation. Ecotoxicology and Environmental Safety, 2018, 147, 157-164.	2.9	37
18	Bioherbicidal Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2018, 6, 2741-2750.	3.2	42

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19	Isolation of rhamnolipids-producing cultures from faeces: Influence of interspecies communication on the yield of rhamnolipid congeners. New Biotechnology, 2017, 36, 17-25.	2.4	8
20	Different antibacterial activity of novel theophylline-based ionic liquids â€“ Growth kinetic and cytotoxicity studies. Ecotoxicology and Environmental Safety, 2016, 130, 54-64.	2.9	54
21	Frontispiece: Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. Chemistry - A European Journal, 2016, 22, .	1.7	0
22	Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. New Biotechnology, 2016, 33, 852-859.	2.4	30
23	Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. Chemistry - A European Journal, 2016, 22, 12012-12021.	1.7	57
24	Influence of oligomeric herbicidal ionic liquids with MCPA and Dicamba anions on the community structure of autochthonic bacteria present in agricultural soil. Science of the Total Environment, 2016, 563-564, 247-255.	3.9	49
25	Herbicidal ionic liquids based on esterquats. New Journal of Chemistry, 2015, 39, 5715-5724.	1.4	50
26	Comparative study on the biodegradability of morpholinium herbicidal ionic liquids. Biodegradation, 2015, 26, 327-340.	1.5	45
27	The influence of bioaugmentation and biosurfactant addition on bioremediation efficiency of diesel-oil contaminated soil: Feasibility during field studies. Journal of Environmental Management, 2014, 132, 121-128.	3.8	158
28	Ionic liquids with a theophyllinate anion. New Journal of Chemistry, 2014, 38, 3146-3153.	1.4	30
29	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. Fuel, 2014, 116, 321-327.	3.4	58
30	Biodegradation of Triton X-100 and its primary metabolites by a bacterial community isolated from activated sludge. Journal of Environmental Management, 2013, 128, 292-299.	3.8	24
31	Contributions of biosurfactants to natural or induced bioremediation. Applied Microbiology and Biotechnology, 2013, 97, 2327-2339.	1.7	205
32	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media. Acta Biochimica Polonica, 2013, 60, 789-93.	0.3	4
33	Rhamnolipids Increase the Phytotoxicity of Diesel Oil Towards Four Common Plant Species in a Terrestrial Environment. Water, Air, and Soil Pollution, 2012, 223, 4275-4282.	1.1	32
34	Biodegradation of rhamnolipids in liquid cultures: Effect of biosurfactant dissipation on diesel fuel/B20 blend biodegradation efficiency and bacterial community composition. Bioresource Technology, 2012, 111, 328-335.	4.8	73
35	Why do microorganisms produce rhamnolipids?. World Journal of Microbiology and Biotechnology, 2012, 28, 401-419.	1.7	159
36	Utilization of Triton X-100 and polyethylene glycols during surfactant-mediated biodegradation of diesel fuel. Journal of Hazardous Materials, 2011, 197, 97-103.	6.5	32

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37	The influence of cell immobilization by biofilm forming on the biodegradation capabilities of bacterial consortia. World Journal of Microbiology and Biotechnology, 2011, 27, 1183-1188.	1.7	31
38	Differences and dynamic changes in the cell surface properties of three Pseudomonas aeruginosa strains isolated from petroleum-polluted soil as a response to various carbon sources and the external addition of rhamnolipids. Bioresource Technology, 2011, 102, 3028-3033.	4.8	52