Lukasz Lawniczak

List of Publications by Citations

35 papers	1,205 citations	22 h-index	34 g-index
38 ext. papers	1,474 ext. citations	6 avg, IF	4.63 L-index

#	Paper	IF	Citations
35	Contributions of biosurfactants to natural or induced bioremediation. *Applied Microbiology and Biotechnology*, **2013**, 97, 2327-39	5.7	174
34	Why do microorganisms produce rhamnolipids?. *World Journal of Microbiology and Biotechnology*, **2012**, 28, 401-19	4.4	127
33	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, 121-8	7.9	115
32	Microbial Degradation of Hydrocarbons-Basic Principles for Bioremediation: A Review. *Molecules*, **2020**, 25,	4.8	91
31	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, 328-35	11	61
30	Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. *Chemistry - A European Journal*, **2016**, 22, 12012-21	4.8	43
29	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, 3028-33	11	42
28	Herbicidal ionic liquids based on esterquats. *New Journal of Chemistry*, **2015**, 39, 5715-5724	3.6	41
27	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. *Fuel*, **2014**, 116, 321-327	7.1	41
26	Different antibacterial activity of novel theophylline-based ionic liquids - Growth kinetic and cytotoxicity studies. *Ecotoxicology and Environmental Safety*, **2016**, 130, 54-64	7	41
25	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, 247-55	10.2	39
24	Comparative study on the biodegradability of morpholinium herbicidal ionic liquids. *Biodegradation*, **2015**, 26, 327-40	4.1	35
23	Utilization of Triton X-100 and polyethylene glycols during surfactant-mediated biodegradation of diesel fuel. *Journal of Hazardous Materials*, **2011**, 197, 97-103	12.8	32
22	Bioherbicidal Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 2741-2750	8.3	31
21	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	2.6	29
20	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	7	28
19	Ionic liquids with a theophyllinate anion. *New Journal of Chemistry*, **2014**, 38, 3146-3153	3.6	26

18	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	4.4	26
17	How to accurately assess surfactant biodegradation-impact of sorption on the validity of results. *Applied Microbiology and Biotechnology*, **2020**, 104, 1-12	5.7	26
16	Effect of bioaugmentation on long-term biodegradation of diesel/biodiesel blends in soil microcosms. *Science of the Total Environment*, **2019**, 671, 948-958	10.2	25
15	Esterquat herbicidal ionic liquids (HILs) with two different herbicides: evaluation of activity and phytotoxicity. *New Journal of Chemistry*, **2018**, 42, 9819-9827	3.6	23
14	Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. *New Biotechnology*, **2016**, 33, 852-859	6.4	23
13	Biodegradation of Triton X-100 and its primary metabolites by a bacterial community isolated from activated sludge. *Journal of Environmental Management*, **2013**, 128, 292-9	7.9	21
12	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	5.7	13
11	Comparison of metalworking fluids biodegradation efficiency by autochthonous and environmental communities. *Journal of Environmental Management*, **2019**, 232, 625-635	7.9	9
10	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. *Ecotoxicology and Environmental Safety*, **2019**, 181, 172-179	7	7
9	Transformation of herbicides into dual function quaternary tropinium salts. *New Journal of Chemistry*, **2020**, 44, 8869-8877	3.6	7
8	Isolation of rhamnolipids-producing cultures from faeces: Influence of interspecies communication on the yield of rhamnolipid congeners. *New Biotechnology*, **2017**, 36, 17-25	6.4	6
7	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	8.3	6
6	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	3.6	5
5	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	8.3	5
4	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	7	3
3	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media. *Acta Biochimica Polonica*, **2013**, 60, 789-93	2	3
2	Gas-phase hydration of Mg complexes with deprotonated uracil, thymine, uridine, and thymidine. *Journal of Mass Spectrometry*, **2020**, 55, e4504	2.2	1
1	Unusual gas-phase hydration efficiency of magnesium-adenosine complex. *Rapid Communications in Mass Spectrometry*, **2021**, 35, e8982	2.2	0