Lukasz Chrzanowski

List of Publications by Year in Descending Order

77 papers	2,163 citations	28 h-index	43 g-index
83 ext. papers	2,625 ext. citations	6 avg, IF	5.07 L-index

#	Paper	IF	Citations
77	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
76	Upgrading biogas produced in anaerobic digestion: Biological removal and bioconversion of CO2 in biogas. *Renewable and Sustainable Energy Reviews*, **2021**, 150, 111448	16.2	7
75	Transformation of herbicides into dual function quaternary tropinium salts. *New Journal of Chemistry*, **2020**, 44, 8869-8877	3.6	7
74	Influence of metal speciation on soil ecotoxicity impacts in life cycle assessment. *Journal of Environmental Management*, **2020**, 266, 110611	7.9	0
73	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
72	Microbial Degradation of Hydrocarbons-Basic Principles for Bioremediation: A Review. *Molecules*, **2020**, 25,	4.8	91
71	Dicamba-Based Herbicides: Herbicidal Ionic Liquids versus Commercial Forms. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 4588-4594	5.7	13
70	Biodegradation of ritalinic acid by Nocardioides sp. - Novel imidazole-based alkaloid metabolite as a potential marker in sewage epidemiology. *Journal of Hazardous Materials*, **2020**, 385, 121554	12.8	1
69	Transformation of Indole-3-butyric Acid into Ionic Liquids as a Sustainable Strategy Leading to Highly Efficient Plant Growth Stimulators. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1591-1598	8.3	15
68	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
67	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
66	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
65	Acinetobacter sp. as the key player in diesel oil degrading community exposed to PAHs and heavy metals. *Journal of Hazardous Materials*, **2020**, 383, 121168	12.8	25
64	Nootropic drugs: Methylphenidate, modafinil and piracetam - Population use trends, occurrence in the environment, ecotoxicity and removal methods - A review. *Chemosphere*, **2019**, 233, 771-785	8.4	20
63	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. *Ecotoxicology and Environmental Safety*, **2019**, 181, 172-179	7	7
62	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
61	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

60	Herbicidal Ionic Liquids Containing the Acetylcholine Cation. *ChemPlusChem*, **2019**, 84, 268-276	2.8	10
59	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
58	Isolation of two Ochrobactrum sp. strains capable of degrading the nootropic drug-Piracetam. *New Biotechnology*, **2018**, 43, 37-43	6.4	10
57	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	4.1	28
56	Bacterial isolates degrading ritalinic acid-human metabolite of neuro enhancer methylphenidate. *New Biotechnology*, **2018**, 43, 30-36	6.4	7
55	Membrane Fatty Acid Composition and Cell Surface Hydrophobicity of Marine Hydrocarbonoclastic SK2 Grown on Diesel, Biodiesel and Rapeseed Oil as Carbon Sources. *Molecules*, **2018**, 23,	4.8	5
54	Effects of ammonium-based ionic liquids and 2,4-dichlorophenol on the phospholipid fatty acid composition of zebrafish embryos. *PLoS ONE*, **2018**, 13, e0190779	3.7	14
53	Terrestrial Ecotoxic Impacts Stemming from Emissions of Cd, Cu, Ni, Pb and Zn from Manure: A Spatially Differentiated Assessment in Europe. *Sustainability*, **2018**, 10, 4094	3.6	3
52	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
51	Limitations of experiments performed in artificially made OECD standard soils for predicting cadmium, lead and zinc toxicity towards organisms living in natural soils. *Journal of Environmental Management*, **2017**, 198, 32-40	7.9	9
50	Two Herbicides in a Single Compound: Double Salt Herbicidal Ionic Liquids Exemplified with Glyphosate, Dicamba, and MCPA. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 6261-6273	8.3	45
49	Biodegradable herbicidal ionic liquids based on synthetic auxins and analogues of betaine. *New Journal of Chemistry*, **2017**, 41, 8066-8077	3.6	29
48	Removal of herbicidal ionic liquids by electrochemical advanced oxidation processes combined with biological treatment. *Environmental Technology (United Kingdom)*, **2017**, 38, 1093-1099	2.6	19
47	Toxicity evaluation of selected ammonium-based ionic liquid forms with MCPP and dicamba moieties on Pseudomonas putida. *Chemosphere*, **2017**, 167, 114-119	8.4	34
46	Toxicity of synthetic herbicides containing 2,4-D and MCPA moieties towards Pseudomonas putida mt-2 and its response at the level of membrane fatty acid composition. *Chemosphere*, **2016**, 144, 107-12	8.4	22
45	Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. *New Biotechnology*, **2016**, 33, 852-859	6.4	23
44	Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. *Chemistry - A European Journal*, **2016**, 22, 12012-21	4.8	43
43	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

42	Different antibacterial activity of novel theophylline-based ionic liquids - Growth kinetic and cytotoxicity studies. *Ecotoxicology and Environmental Safety*, **2016**, 130, 54-64	7	41
41	Influence of soil contamination with PAH on microbial community dynamics and expression level of genes responsible for biodegradation of PAH and production of rhamnolipids. *Environmental Science and Pollution Research*, **2016**, 23, 23043-23056	5.1	28
40	Ammonium ionic liquids with anions of natural origin. *RSC Advances*, **2015**, 5, 65471-65480	3.7	24
39	Herbicidal ionic liquids based on esterquats. *New Journal of Chemistry*, **2015**, 39, 5715-5724	3.6	41
38	High Voltage Electrochemiluminescence (ECL) as a New Method for Detection of PAH During Screening for PAH-Degrading Microbial Consortia. *Water, Air, and Soil Pollution*, **2015**, 226, 270	2.6	1
37	Removal of nitrates from processing wastewater by cryoconcentration combined with biological denitrification. *Desalination and Water Treatment*, **2015**, 54, 1903-1911		2
36	Rhizosphere as a tool to introduce a soil-isolated hydrocarbon-degrading bacterial consortium into a wetland environment. *International Biodeterioration and Biodegradation*, **2015**, 97, 135-142	4.8	13
35	Persistence of selected ammonium- and phosphonium-based ionic liquids in urban park soil microcosms. *International Biodeterioration and Biodegradation*, **2015**, 103, 91-96	4.8	13
34	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
33	Ionic liquids with dual pesticidal function. *RSC Advances*, **2014**, 4, 39751-39754	3.7	31
32	Ionic liquids with a theophyllinate anion. *New Journal of Chemistry*, **2014**, 38, 3146-3153	3.6	26
31	Rhizoremediation of diesel-contaminated soil with two rapeseed varieties and petroleum degraders reveals different responses of the plant defense mechanisms. *International Journal of Phytoremediation*, **2014**, 16, 770-89	3.9	15
30	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. *Fuel*, **2014**, 116, 321-327	7.1	41
29	Functional polypropylene composites filled with ultra-fine magnesium hydroxide. *Open Chemistry*, **2014**, 13,	1.6	20
28	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
27	Contributions of biosurfactants to natural or induced bioremediation. *Applied Microbiology and Biotechnology*, **2013**, 97, 2327-39	5.7	174
26	Composting of oiled bleaching earth: Fatty acids degradation, phytotoxicity and mutagenicity changes. *International Biodeterioration and Biodegradation*, **2013**, 78, 49-57	4.8	33
25	Bioaugmentation with Petroleum-Degrading Consortia Has a Selective Growth-Promoting Impact on Crop Plants Germinated in Diesel Oil-Contaminated Soil. *Water, Air, and Soil Pollution*, **2013**, 224, 1676	2.6	38

24	Denitrification of industrial wastewater: Influence of glycerol addition on metabolic activity and community shifts in a microbial consortium. *Chemosphere*, **2013**, 93, 2823-31	8.4	23
23	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media.. *Acta Biochimica Polonica*, **2013**, 60,	2	2
22	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media. *Acta Biochimica Polonica*, **2013**, 60, 789-93	2	3
21	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
20	Genetic and chemical analyzes of transformations in compost compounds during biodegradation of oiled bleaching earth with waste sludge. *Bioresource Technology*, **2012**, 114, 75-83	11	4
19	Why do microorganisms produce rhamnolipids?. *World Journal of Microbiology and Biotechnology*, **2012**, 28, 401-19	4.4	127
18	Biodegradability of Firefighting Foams. *Fire Technology*, **2012**, 48, 173-181	3	16
17	Biological denitrification of brine: the effect of compatible solutes on enzyme activities and fatty acid degradation. *Biodegradation*, **2012**, 23, 663-72	4.1	12
16	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
15	Electrokinetic and bioactive properties of CuO□iO2 oxide composites. *Bioelectrochemistry*, **2012**, 87, 50-7	5.6	7
14	Biological Denitrification of High Nitrate Processing Wastewaters from Explosives Production Plant. *Water, Air, and Soil Pollution*, **2012**, 223, 1791-1800	2.6	30
13	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
12	Relative quantitative PCR to assess bacterial community dynamics during biodegradation of diesel and biodiesel fuels under various aeration conditions. *Bioresource Technology*, **2011**, 102, 4347-52	11	46
11	Interactions between rhamnolipid biosurfactants and toxic chlorinated phenols enhance biodegradation of a model hydrocarbon-rich effluent. *International Biodeterioration and Biodegradation*, **2011**, 65, 605-611	4.8	39
10	Adaptation of anaerobically grown Thauera aromatica, Geobacter sulfurreducens and Desulfococcus multivorans to organic solvents on the level of membrane fatty acid composition. *Microbial Biotechnology*, **2010**, 3, 201-9	6.3	30
9	Biodegradation of diesel fuel by a microbial consortium in the presence of 1-alkoxymethyl-2-methyl-5-hydroxypyridinium chloride homologues. *Biodegradation*, **2009**, 20, 661-71	4.1	7
8	Adsorption of Sodium Dodecylbenzenesulphonate (SDBS) on Candida maltosa EH 15 Strain: Influence on Cell Surface Hydrophobicity and n-alkanes Biodegradation. *Water, Air, and Soil Pollution*, **2009**, 196, 345-353	2.6	9
7	Biodegradation and surfactant-mediated biodegradation of diesel fuel by 218 microbial consortia are not correlated to cell surface hydrophobicity. *Applied Microbiology and Biotechnology*, **2009**, 84, 545-53	3.7	72

6	Rhamnolipid biosurfactants decrease the toxicity of chlorinated phenols to Pseudomonas putida DOT-T1E. *Letters in Applied Microbiology*, **2009**, 48, 756-62	2.9	31
5	Biodegradation of diesel/biodiesel blends by a consortium of hydrocarbon degraders: effect of the type of blend and the addition of biosurfactants. *Bioresource Technology*, **2009**, 100, 1497-500	11	135
4	Phenol and n-alkanes (C12 and C16) utilization: influence on yeast cell surface hydrophobicity. *World Journal of Microbiology and Biotechnology*, **2008**, 24, 1943-1949	4.4	23
3	Yeast and bacteria cell hydrophobicity and hydrocarbon biodegradation in the presence of natural surfactants: rhamnolipides and saponins. *Bioresource Technology*, **2008**, 99, 4285-91	11	73
2	Cell hydrophobicity of Pseudomonas spp. and Bacillus spp. bacteria and hydrocarbon biodegradation in the presence of Quillaya saponin. *World Journal of Microbiology and Biotechnology*, **2007**, 23, 677-682	4.4	27
1	Relation between Candida maltosa Hydrophobicity and Hydrocarbon Biodegradation. *World Journal of Microbiology and Biotechnology*, **2005**, 21, 1273-1277	4.4	10