

# Lukasz Chrzanowski

## List of Publications by Citations

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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	Contributions of biosurfactants to natural or induced bioremediation. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 2327-39	5.7	174
76	Biodegradation of diesel/biodiesel blends by a consortium of hydrocarbon degraders: effect of the type of blend and the addition of biosurfactants. <i>Bioresource Technology</i> , <b>2009</b> , 100, 1497-500	11	135
75	Why do microorganisms produce rhamnolipids?. <i>World Journal of Microbiology and Biotechnology</i> , <b>2012</b> , 28, 401-19	4.4	127
74	The influence of bioaugmentation and biosurfactant addition on bioremediation efficiency of diesel-oil contaminated soil: feasibility during field studies. <i>Journal of Environmental Management</i> , <b>2014</b> , 132, 121-8	7.9	115
73	Microbial Degradation of Hydrocarbons-Basic Principles for Bioremediation: A Review. <i>Molecules</i> , <b>2020</b> , 25,	4.8	91
72	Yeast and bacteria cell hydrophobicity and hydrocarbon biodegradation in the presence of natural surfactants: rhamnolipides and saponins. <i>Bioresource Technology</i> , <b>2008</b> , 99, 4285-91	11	73
71	Biodegradation and surfactant-mediated biodegradation of diesel fuel by 218 microbial consortia are not correlated to cell surface hydrophobicity. <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 84, 545-53	5.7	72
70	Biodegradation of rhamnolipids in liquid cultures: effect of biosurfactant dissipation on diesel fuel/B20 blend biodegradation efficiency and bacterial community composition. <i>Bioresource Technology</i> , <b>2012</b> , 111, 328-35	11	61
69	Relative quantitative PCR to assess bacterial community dynamics during biodegradation of diesel and biodiesel fuels under various aeration conditions. <i>Bioresource Technology</i> , <b>2011</b> , 102, 4347-52	11	46
68	Two Herbicides in a Single Compound: Double Salt Herbicidal Ionic Liquids Exemplified with Glyphosate, Dicamba, and MCPA. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 6261-6273	8.3	45
67	Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 12012-21	4.8	43
66	Herbicidal ionic liquids based on esterquats. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 5715-5724	3.6	41
65	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. <i>Fuel</i> , <b>2014</b> , 116, 321-327	7.1	41
64	Different antibacterial activity of novel theophylline-based ionic liquids - Growth kinetic and cytotoxicity studies. <i>Ecotoxicology and Environmental Safety</i> , <b>2016</b> , 130, 54-64	7	41
63	Influence of oligomeric herbicidal ionic liquids with MCPA and Dicamba anions on the community structure of autochthonic bacteria present in agricultural soil. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 247-55	10.2	39
62	Interactions between rhamnolipid biosurfactants and toxic chlorinated phenols enhance biodegradation of a model hydrocarbon-rich effluent. <i>International Biodeterioration and Biodegradation</i> , <b>2011</b> , 65, 605-611	4.8	39
61	Bioaugmentation with Petroleum-Degrading Consortia Has a Selective Growth-Promoting Impact on Crop Plants Germinated in Diesel Oil-Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1676	2.6	38

60	Toxicity evaluation of selected ammonium-based ionic liquid forms with MCPP and dicamba moieties on <i>Pseudomonas putida</i> . <i>Chemosphere</i> , <b>2017</b> , 167, 114-119	8.4	34
59	Composting of oiled bleaching earth: Fatty acids degradation, phytotoxicity and mutagenicity changes. <i>International Biodeterioration and Biodegradation</i> , <b>2013</b> , 78, 49-57	4.8	33
58	Utilization of Triton X-100 and polyethylene glycols during surfactant-mediated biodegradation of diesel fuel. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 197, 97-103	12.8	32
57	Ionic liquids with dual pesticidal function. <i>RSC Advances</i> , <b>2014</b> , 4, 39751-39754	3.7	31
56	Rhamnolipid biosurfactants decrease the toxicity of chlorinated phenols to <i>Pseudomonas putida</i> DOT-T1E. <i>Letters in Applied Microbiology</i> , <b>2009</b> , 48, 756-62	2.9	31
55	Biological Denitrification of High Nitrate Processing Wastewaters from Explosives Production Plant. <i>Water, Air, and Soil Pollution</i> , <b>2012</b> , 223, 1791-1800	2.6	30
54	Adaptation of anaerobically grown <i>Thauera aromatica</i> , <i>Geobacter sulfurreducens</i> and <i>Desulfococcus multivorans</i> to organic solvents on the level of membrane fatty acid composition. <i>Microbial Biotechnology</i> , <b>2010</b> , 3, 201-9	6.3	30
53	Biodegradable herbicidal ionic liquids based on synthetic auxins and analogues of betaine. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 8066-8077	3.6	29
52	Rhamnolipids Increase the Phytotoxicity of Diesel Oil Towards Four Common Plant Species in a Terrestrial Environment. <i>Water, Air, and Soil Pollution</i> , <b>2012</b> , 223, 4275-4282	2.6	29
51	Biodiversity of soil bacteria exposed to sub-lethal concentrations of phosphonium-based ionic liquids: Effects of toxicity and biodegradation. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 147, 157-164	7.4	28
50	Influence of soil contamination with PAH on microbial community dynamics and expression level of genes responsible for biodegradation of PAH and production of rhamnolipids. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 23043-23056	5.1	28
49	Cell hydrophobicity of <i>Pseudomonas</i> spp. and <i>Bacillus</i> spp. bacteria and hydrocarbon biodegradation in the presence of <i>Quillaya saponin</i> . <i>World Journal of Microbiology and Biotechnology</i> , <b>2007</b> , 23, 677-682	4.4	27
48	Ionic liquids with a theophyllinate anion. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 3146-3153	3.6	26
47	How to accurately assess surfactant biodegradation-impact of sorption on the validity of results. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 1-12	5.7	26
46	Effect of bioaugmentation on long-term biodegradation of diesel/biodiesel blends in soil microcosms. <i>Science of the Total Environment</i> , <b>2019</b> , 671, 948-958	10.2	25
45	<i>Acinetobacter</i> sp. as the key player in diesel oil degrading community exposed to PAHs and heavy metals. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 383, 121168	12.8	25
44	Ammonium ionic liquids with anions of natural origin. <i>RSC Advances</i> , <b>2015</b> , 5, 65471-65480	3.7	24
43	Esterquat herbicidal ionic liquids (HILs) with two different herbicides: evaluation of activity and phytotoxicity. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 9819-9827	3.6	23

42	Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. <i>New Biotechnology</i> , <b>2016</b> , 33, 852-859	6.4	23
41	Denitrification of industrial wastewater: Influence of glycerol addition on metabolic activity and community shifts in a microbial consortium. <i>Chemosphere</i> , <b>2013</b> , 93, 2823-31	8.4	23
40	Phenol and n-alkanes (C12 and C16) utilization: influence on yeast cell surface hydrophobicity. <i>World Journal of Microbiology and Biotechnology</i> , <b>2008</b> , 24, 1943-1949	4.4	23
39	Toxicity of synthetic herbicides containing 2,4-D and MCPA moieties towards <i>Pseudomonas putida</i> mt-2 and its response at the level of membrane fatty acid composition. <i>Chemosphere</i> , <b>2016</b> , 144, 107-12	8.4	22
38	Biodegradation of Triton X-100 and its primary metabolites by a bacterial community isolated from activated sludge. <i>Journal of Environmental Management</i> , <b>2013</b> , 128, 292-9	7.9	21
37	Nootropic drugs: Methylphenidate, modafinil and piracetam - Population use trends, occurrence in the environment, ecotoxicity and removal methods - A review. <i>Chemosphere</i> , <b>2019</b> , 233, 771-785	8.4	20
36	Functional polypropylene composites filled with ultra-fine magnesium hydroxide. <i>Open Chemistry</i> , <b>2014</b> , 13,	1.6	20
35	Removal of herbicidal ionic liquids by electrochemical advanced oxidation processes combined with biological treatment. <i>Environmental Technology (United Kingdom)</i> , <b>2017</b> , 38, 1093-1099	2.6	19
34	Biodegradability of Firefighting Foams. <i>Fire Technology</i> , <b>2012</b> , 48, 173-181	3	16
33	Rhizoremediation of diesel-contaminated soil with two rapeseed varieties and petroleum degraders reveals different responses of the plant defense mechanisms. <i>International Journal of Phytoremediation</i> , <b>2014</b> , 16, 770-89	3.9	15
32	Transformation of Indole-3-butyric Acid into Ionic Liquids as a Sustainable Strategy Leading to Highly Efficient Plant Growth Stimulators. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1591-1598	8.3	15
31	Effects of ammonium-based ionic liquids and 2,4-dichlorophenol on the phospholipid fatty acid composition of zebrafish embryos. <i>PLoS ONE</i> , <b>2018</b> , 13, e0190779	3.7	14
30	Rhizosphere as a tool to introduce a soil-isolated hydrocarbon-degrading bacterial consortium into a wetland environment. <i>International Biodeterioration and Biodegradation</i> , <b>2015</b> , 97, 135-142	4.8	13
29	Dicamba-Based Herbicides: Herbicidal Ionic Liquids versus Commercial Forms. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 4588-4594	5.7	13
28	Persistence of selected ammonium- and phosphonium-based ionic liquids in urban park soil microcosms. <i>International Biodeterioration and Biodegradation</i> , <b>2015</b> , 103, 91-96	4.8	13
27	Herbicidal Ionic Liquids: A Promising Future for Old Herbicides? Review on Synthesis, Toxicity, Biodegradation, and Efficacy Studies. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 10456-10488	5.7	13
26	Biological denitrification of brine: the effect of compatible solutes on enzyme activities and fatty acid degradation. <i>Biodegradation</i> , <b>2012</b> , 23, 663-72	4.1	12
25	Herbicidal Ionic Liquids Containing the Acetylcholine Cation. <i>ChemPlusChem</i> , <b>2019</b> , 84, 268-276	2.8	10

24	Isolation of two <i>Ochrobactrum</i> sp. strains capable of degrading the nootropic drug-Piracetam. <i>New Biotechnology</i> , <b>2018</b> , 43, 37-43	6.4	10
23	Relation between <i>Candida maltosa</i> Hydrophobicity and Hydrocarbon Biodegradation. <i>World Journal of Microbiology and Biotechnology</i> , <b>2005</b> , 21, 1273-1277	4.4	10
22	Limitations of experiments performed in artificially made OECD standard soils for predicting cadmium, lead and zinc toxicity towards organisms living in natural soils. <i>Journal of Environmental Management</i> , <b>2017</b> , 198, 32-40	7.9	9
21	Adsorption of Sodium Dodecylbenzenesulphonate (SDBS) on <i>Candida maltosa</i> EH 15 Strain: Influence on Cell Surface Hydrophobicity and n-alkanes Biodegradation. <i>Water, Air, and Soil Pollution</i> , <b>2009</b> , 196, 345-353	2.6	9
20	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 181, 172-179	7	7
19	Transformation of herbicides into dual function quaternary tropinium salts. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 8869-8877	3.6	7
18	Bacterial isolates degrading ritalinic acid-human metabolite of neuro enhancer methylphenidate. <i>New Biotechnology</i> , <b>2018</b> , 43, 30-36	6.4	7
17	Electrokinetic and bioactive properties of CuO/BiO <sub>2</sub> oxide composites. <i>Bioelectrochemistry</i> , <b>2012</b> , 87, 50-7	5.6	7
16	Biodegradation of diesel fuel by a microbial consortium in the presence of 1-alkoxymethyl-2-methyl-5-hydroxypyridinium chloride homologues. <i>Biodegradation</i> , <b>2009</b> , 20, 661-71	4.1	7
15	Upgrading biogas produced in anaerobic digestion: Biological removal and bioconversion of CO <sub>2</sub> in biogas. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 150, 111448	16.2	7
14	Isolation of rhamnolipids-producing cultures from faeces: Influence of interspecies communication on the yield of rhamnolipid congeners. <i>New Biotechnology</i> , <b>2017</b> , 36, 17-25	6.4	6
13	Double-Action Herbicidal Ionic Liquids Based on Dicamba Esterquats with 4-CPA, 2,4-D, MCPA, MCPP, and Clopyralid Anions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 14584-14594	8.3	6
12	Plant growth promoting N-alkyltropinium bromides enhance seed germination, biomass accumulation and photosynthesis parameters of maize ( <i>Zea mays</i> ). <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 5805-5812	3.6	5
11	Quantifying the Mineralization of <sup>13</sup> C-Labeled Cations and Anions Reveals Differences in Microbial Biodegradation of Herbicidal Ionic Liquids between Water and Soil. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3412-3426	8.3	5
10	Membrane Fatty Acid Composition and Cell Surface Hydrophobicity of Marine Hydrocarbonoclastic SK2 Grown on Diesel, Biodiesel and Rapeseed Oil as Carbon Sources. <i>Molecules</i> , <b>2018</b> , 23,	4.8	5
9	Genetic and chemical analyzes of transformations in compost compounds during biodegradation of oiled bleaching earth with waste sludge. <i>Bioresource Technology</i> , <b>2012</b> , 114, 75-83	11	4
8	Novel esterquat-based herbicidal ionic liquids incorporating MCPA and MCPP for simultaneous stimulation of maize growth and fighting cornflower. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 208, 111595	7	3
7	Terrestrial Ecotoxic Impacts Stemming from Emissions of Cd, Cu, Ni, Pb and Zn from Manure: A Spatially Differentiated Assessment in Europe. <i>Sustainability</i> , <b>2018</b> , 10, 4094	3.6	3

6	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media. <i>Acta Biochimica Polonica</i> , <b>2013</b> , 60, 789-93	2	3
5	Removal of nitrates from processing wastewater by cryoconcentration combined with biological denitrification. <i>Desalination and Water Treatment</i> , <b>2015</b> , 54, 1903-1911		2
4	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media.. <i>Acta Biochimica Polonica</i> , <b>2013</b> , 60,	2	2
3	High Voltage Electrochemiluminescence (ECL) as a New Method for Detection of PAH During Screening for PAH-Degrading Microbial Consortia. <i>Water, Air, and Soil Pollution</i> , <b>2015</b> , 226, 270	2.6	1
2	Biodegradation of ritalinic acid by <i>Nocardioides</i> sp. - Novel imidazole-based alkaloid metabolite as a potential marker in sewage epidemiology. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 385, 121554	12.8	1
1	Influence of metal speciation on soil ecotoxicity impacts in life cycle assessment. <i>Journal of Environmental Management</i> , <b>2020</b> , 266, 110611	7.9	0