Åukasz Chrzanowski

List of Publications by Year
in descending order

81 papers	3,019 citations	126858 33 h-index	175177 52 g-index
83 all docs	83 docs citations	83 times ranked	2928 citing authors

#	Article	IF	Citations
1	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
2	Transformation of Iodosulfuron-Methyl into Ionic Liquids Enables Elimination of Additional Surfactants in Commercial Formulations of Sulfonylureas. Molecules, 2021, 26, 4396.	1.7	11
3	Upgrading biogas produced in anaerobic digestion: Biological removal and bioconversion of CO2 in biogas. Renewable and Sustainable Energy Reviews, 2021, 150, 111448.	8.2	40
4	Acinetobacter sp. as the key player in diesel oil degrading community exposed to PAHs and heavy metals. Journal of Hazardous Materials, 2020, 383, 121168.	6.5	80
5	Biodegradation of ritalinic acid by Nocardioides sp. â€“ Novel imidazole-based alkaloid metabolite as a potential marker in sewage epidemiology. Journal of Hazardous Materials, 2020, 385, 121554.	6.5	3
6	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.	3.2	29
7	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
8	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
9	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
10	Transformation of herbicides into dual function quaternary tropinium salts. New Journal of Chemistry, 2020, 44, 8869-8877.	1.4	17
11	Influence of metal speciation on soil ecotoxicity impacts in life cycle assessment. Journal of Environmental Management, 2020, 266, 110611.	3.8	13
12	Biodegradation of Conventional and Emerging Pollutants. Molecules, 2020, 25, 1186.	1.7	1
13	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
14	Microbial Degradation of Hydrocarbonsâ€”Basic Principles for Bioremediation: A Review. Molecules, 2020, 25, 856.	1.7	181
15	Dicamba-Based Herbicides: Herbicidal Ionic Liquids versus Commercial Forms. Journal of Agricultural and Food Chemistry, 2020, 68, 4588-4594.	2.4	26
16	Nootropic drugs: Methylphenidate, modafinil and piracetam â€“ Population use trends, occurrence in the environment, ecotoxicity and removal methods â€“ A review. Chemosphere, 2019, 233, 771-785.	4.2	38
17	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. Ecotoxicology and Environmental Safety, 2019, 181, 172-179.	2.9	10
18	Plant growth promoting <i>N</i>-alkyltropinium bromides enhance seed germination, biomass accumulation and photosynthesis parameters of maize (<i>Zea mays</i>). New Journal of Chemistry, 2019, 43, 5805-5812.	1.4	14

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19	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
20	Herbicidal Ionic Liquids Containing the Acetylcholine Cation. ChemPlusChem, 2019, 84, 268-276.	1.3	15
21	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
22	Isolation of two Ochrobactrum sp. strains capable of degrading the nootropic drugâ€"Piracetam. New Biotechnology, 2018, 43, 37-43.	2.4	15
23	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
24	Bacterial isolates degrading ritalinic acidâ€"human metabolite of neuro enhancer methylphenidate. New Biotechnology, 2018, 43, 30-36.	2.4	10
25	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.	1.6	6
26	Membrane Fatty Acid Composition and Cell Surface Hydrophobicity of Marine Hydrocarbonoclastic Alcanivorax borkumensis SK2 Grown on Diesel, Biodiesel and Rapeseed Oil as Carbon Sources. Molecules, 2018, 23, 1432.	1.7	25
27	Effects of ammonium-based ionic liquids and 2,4-dichlorophenol on the phospholipid fatty acid composition of zebrafish embryos. PLoS ONE, 2018, 13, e0190779.	1.1	20
28	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
29	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.	3.8	16
30	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.	3.2	62
31	Biodegradable herbicidal ionic liquids based on synthetic auxins and analogues of betaine. New Journal of Chemistry, 2017, 41, 8066-8077.	1.4	42
32	Removal of herbicidal ionic liquids by electrochemical advanced oxidation processes combined with biological treatment. Environmental Technology (United Kingdom), 2017, 38, 1093-1099.	1.2	22
33	Toxicity evaluation of selected ammonium-based ionic liquid forms with MCPP and dicamba moieties on Pseudomonas putida. Chemosphere, 2017, 167, 114-119.	4.2	44
34	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
35	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.	2.7	35
36	Structural and functional robustness of an environmental bacterial community degrading diesel fuel. New Biotechnology, 2016, 33, S128.	2.4	0

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37	Frontispiece: Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. Chemistry - A European Journal, 2016, 22, .	1.7	0
38	Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. New Biotechnology, 2016, 33, 852-859.	2.4	30
39	Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. Chemistry - A European Journal, 2016, 22, 12012-12021.	1.7	57
40	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
41	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, 107-112.	4.2	26
42	Functional polypropylene composites filled with ultra-fine magnesium hydroxide. Open Chemistry, 2015, 13, .	1.0	25
43	Persistence of selected ammonium- and phosphonium-based ionic liquids in urban park soil microcosms. International Biodeterioration and Biodegradation, 2015, 103, 91-96.	1.9	17
44	Ammonium ionic liquids with anions of natural origin. RSC Advances, 2015, 5, 65471-65480.	1.7	30
45	Herbicidal ionic liquids based on esterquats. New Journal of Chemistry, 2015, 39, 5715-5724.	1.4	50
46	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.	1.1	2
47	Removal of nitrates from processing wastewater by cryoconcentration combined with biological denitrification. Desalination and Water Treatment, 2015, 54, 1903-1911.	1.0	2
48	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.	1.9	13
49	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
50	Ionic liquids with dual pesticidal function. RSC Advances, 2014, 4, 39751-39754.	1.7	40
51	Ionic liquids with a theophyllinate anion. New Journal of Chemistry, 2014, 38, 3146-3153.	1.4	30
52	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, 770-789.	1.7	20
53	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. Fuel, 2014, 116, 321-327.	3.4	58
54	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

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55	Contributions of biosurfactants to natural or induced bioremediation. Applied Microbiology and Biotechnology, 2013, 97, 2327-2339.	1.7	205
56	Composting of oiled bleaching earth: Fatty acids degradation, phytotoxicity and mutagenicity changes. International Biodeterioration and Biodegradation, 2013, 78, 49-57.	1.9	43
57	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.	1.1	46
58	Denitrification of industrial wastewater: Influence of glycerol addition on metabolic activity and community shifts in a microbial consortium. Chemosphere, 2013, 93, 2823-2831.	4.2	25
59	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media.. Acta Biochimica Polonica, 2013, 60, .	0.3	3
60	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
61	Biological denitrification of brine: the effect of compatible solutes on enzyme activities and fatty acid degradation. Biodegradation, 2012, 23, 663-672.	1.5	14
62	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
63	Electrokinetic and bioactive properties of CuOâˆ™SiO2 oxide composites. Bioelectrochemistry, 2012, 87, 50-57.	2.4	11
64	Biological Denitrification of High Nitrate Processing Wastewaters from Explosives Production Plant. Water, Air, and Soil Pollution, 2012, 223, 1791-1800.	1.1	38
65	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
66	Genetic and chemical analyzes of transformations in compost compounds during biodegradation of oiled bleaching earth with waste sludge. Bioresource Technology, 2012, 114, 75-83.	4.8	5
67	Why do microorganisms produce rhamnolipids?. World Journal of Microbiology and Biotechnology, 2012, 28, 401-419.	1.7	159
68	Biodegradability of Firefighting Foams. Fire Technology, 2012, 48, 173-181.	1.5	21
69	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
70	Relative quantitative PCR to assess bacterial community dynamics during biodegradation of diesel and biodiesel fuels under various aeration conditions. Bioresource Technology, 2011, 102, 4347-4352.	4.8	54
71	Interactions between rhamnolipid biosurfactants and toxic chlorinated phenols enhance biodegradation of a model hydrocarbon-rich effluent. International Biodeterioration and Biodegradation, 2011, 65, 605-611.	1.9	41
72	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. Microbial Biotechnology, 2010, 3, 201-209.	2.0	38

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73	Biodegradation of diesel fuel by a microbial consortium in the presence of 1-alkoxymethyl-2-methyl-5-hydroxypyridinium chloride homologues. Biodegradation, 2009, 20, 661-671.	1.5	8
74	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.	1.1	10
75	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, 545-553.	1.7	79
76	Rhamnolipid biosurfactants decrease the toxicity of chlorinated phenols to<i>Pseudomonas putida</i>DOT-T1E. Letters in Applied Microbiology, 2009, 48, 756-62.	1.0	34
77	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, 1497-1500.	4.8	162
78	Phenol and n-alkanes (C12 and C16) utilization: influence on yeast cell surface hydrophobicity. World Journal of Microbiology and Biotechnology, 2008, 24, 1943-1949.	1.7	27
79	Yeast and bacteria cell hydrophobicity and hydrocarbon biodegradation in the presence of natural surfactants: Rhamnolipides and saponins. Bioresource Technology, 2008, 99, 4285-4291.	4.8	90
80	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.	1.7	33
81	Relation between Candida maltosa Hydrophobicity and Hydrocarbon Biodegradation. World Journal of Microbiology and Biotechnology, 2005, 21, 1273-1277.	1.7	13