

Arkusz Chrzanowski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3435142/publications.pdf>

Version: 2024-02-01

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	Contributions of biosurfactants to natural or induced bioremediation. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2327-2339.	1.7	205
2	Microbial Degradation of Hydrocarbons – Basic Principles for Bioremediation: A Review. <i>Molecules</i> , 2020, 25, 856.	1.7	181
3	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> , 2009, 100, 1497-1500.	4.8	162
4	Why do microorganisms produce rhamnolipids?. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 401-419.	1.7	159
5	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> , 2014, 132, 121-128.	3.8	158
6	Yeast and bacteria cell hydrophobicity and hydrocarbon biodegradation in the presence of natural surfactants: Rhamnolipides and saponins. <i>Bioresource Technology</i> , 2008, 99, 4285-4291.	4.8	90
7	<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> , 2020, 383, 121168.	6.5	80
8	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> , 2009, 84, 545-553.	1.7	79
9	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> , 2012, 111, 328-335.	4.8	73
10	Two Herbicides in a Single Compound: Double Salt Herbicidal Ionic Liquids Exemplified with Glyphosate, Dicamba, and MCPA. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6261-6273.	3.2	62
11	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. <i>Fuel</i> , 2014, 116, 321-327.	3.4	58
12	Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. <i>Chemistry - A European Journal</i> , 2016, 22, 12012-12021.	1.7	57
13	Relative quantitative PCR to assess bacterial community dynamics during biodegradation of diesel and biodiesel fuels under various aeration conditions. <i>Bioresource Technology</i> , 2011, 102, 4347-4352.	4.8	54
14	Different antibacterial activity of novel theophylline-based ionic liquids – Growth kinetic and cytotoxicity studies. <i>Ecotoxicology and Environmental Safety</i> , 2016, 130, 54-64.	2.9	54
15	Herbicidal ionic liquids based on esterquats. <i>New Journal of Chemistry</i> , 2015, 39, 5715-5724.	1.4	50
16	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> , 2016, 563-564, 247-255.	3.9	49
17	How to accurately assess surfactant biodegradation-impact of sorption on the validity of results. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 1-12.	1.7	48
18	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> , 2013, 224, 1676.	1.1	46

#	ARTICLE	IF	CITATIONS
19	Toxicity evaluation of selected ammonium-based ionic liquid forms with MCPP and dicamba moieties on <i>Pseudomonas putida</i> . <i>Chemosphere</i> , 2017, 167, 114-119.	4.2	44
20	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> , 2020, 68, 10456-10488.	2.4	44
21	Composting of oiled bleaching earth: Fatty acids degradation, phytotoxicity and mutagenicity changes. <i>International Biodeterioration and Biodegradation</i> , 2013, 78, 49-57.	1.9	43
22	Effect of bioaugmentation on long-term biodegradation of diesel/biodiesel blends in soil microcosms. <i>Science of the Total Environment</i> , 2019, 671, 948-958.	3.9	43
23	Biodegradable herbicidal ionic liquids based on synthetic auxins and analogues of betaine. <i>New Journal of Chemistry</i> , 2017, 41, 8066-8077.	1.4	42
24	Interactions between rhamnolipid biosurfactants and toxic chlorinated phenols enhance biodegradation of a model hydrocarbon-rich effluent. <i>International Biodeterioration and Biodegradation</i> , 2011, 65, 605-611.	1.9	41
25	Ionic liquids with dual pesticidal function. <i>RSC Advances</i> , 2014, 4, 39751-39754.	1.7	40
26	Upgrading biogas produced in anaerobic digestion: Biological removal and bioconversion of CO ₂ in biogas. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111448.	8.2	40
27	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> , 2010, 3, 201-209.	2.0	38
28	Biological Denitrification of High Nitrate Processing Wastewaters from Explosives Production Plant. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 1791-1800.	1.1	38
29	Nootropic drugs: Methylphenidate, modafinil and piracetam – Population use trends, occurrence in the environment, ecotoxicity and removal methods – A review. <i>Chemosphere</i> , 2019, 233, 771-785.	4.2	38
30	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> , 2018, 147, 157-164.	2.9	37
31	Esterquat herbicidal ionic liquids (HILs) with two different herbicides: evaluation of activity and phytotoxicity. <i>New Journal of Chemistry</i> , 2018, 42, 9819-9827.	1.4	36
32	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> , 2016, 23, 23043-23056.	2.7	35
33	Rhamnolipid biosurfactants decrease the toxicity of chlorinated phenols to <i>Pseudomonas putida</i> . <i>Letters in Applied Microbiology</i> , 2009, 48, 756-62.	1.0	34
34	Cell hydrophobicity of <i>Pseudomonas</i> spp. and <i>Bacillus</i> spp. bacteria and hydrocarbon biodegradation in the presence of Quillaya saponin. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 677-682.	1.7	33
35	Utilization of Triton X-100 and polyethylene glycols during surfactant-mediated biodegradation of diesel fuel. <i>Journal of Hazardous Materials</i> , 2011, 197, 97-103.	6.5	32
36	Rhamnolipids Increase the Phytotoxicity of Diesel Oil Towards Four Common Plant Species in a Terrestrial Environment. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4275-4282.	1.1	32

#	ARTICLE	IF	CITATIONS
37	Ionic liquids with a theophyllinate anion. <i>New Journal of Chemistry</i> , 2014, 38, 3146-3153.	1.4	30
38	Ammonium ionic liquids with anions of natural origin. <i>RSC Advances</i> , 2015, 5, 65471-65480.	1.7	30
39	Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. <i>New Biotechnology</i> , 2016, 33, 852-859.	2.4	30
40	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> , 2020, 8, 1591-1598.	3.2	29
41	Phenol and n-alkanes (C12 and C16) utilization: influence on yeast cell surface hydrophobicity. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 1943-1949.	1.7	27
42	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> , 2016, 144, 107-112.	4.2	26
43	Dicamba-Based Herbicides: Herbicidal Ionic Liquids versus Commercial Forms. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4588-4594.	2.4	26
44	Denitrification of industrial wastewater: Influence of glycerol addition on metabolic activity and community shifts in a microbial consortium. <i>Chemosphere</i> , 2013, 93, 2823-2831.	4.2	25
45	Functional polypropylene composites filled with ultra-fine magnesium hydroxide. <i>Open Chemistry</i> , 2015, 13, .	1.0	25
46	Membrane Fatty Acid Composition and Cell Surface Hydrophobicity of Marine Hydrocarbonoclastic <i>Alcanivorax borkumensis</i> SK2 Grown on Diesel, Biodiesel and Rapeseed Oil as Carbon Sources. <i>Molecules</i> , 2018, 23, 1432.	1.7	25
47	Biodegradation of Triton X-100 and its primary metabolites by a bacterial community isolated from activated sludge. <i>Journal of Environmental Management</i> , 2013, 128, 292-299.	3.8	24
48	Removal of herbicidal ionic liquids by electrochemical advanced oxidation processes combined with biological treatment. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1093-1099.	1.2	22
49	Biodegradability of Firefighting Foams. <i>Fire Technology</i> , 2012, 48, 173-181.	1.5	21
50	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> , 2020, 8, 14584-14594.	3.2	21
51	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> , 2014, 16, 770-789.	1.7	20
52	Effects of ammonium-based ionic liquids and 2,4-dichlorophenol on the phospholipid fatty acid composition of zebrafish embryos. <i>PLoS ONE</i> , 2018, 13, e0190779.	1.1	20
53	Persistence of selected ammonium- and phosphonium-based ionic liquids in urban park soil microcosms. <i>International Biodeterioration and Biodegradation</i> , 2015, 103, 91-96.	1.9	17
54	Transformation of herbicides into dual function quaternary tropinium salts. <i>New Journal of Chemistry</i> , 2020, 44, 8869-8877.	1.4	17

#	ARTICLE	IF	CITATIONS
55	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> , 2017, 198, 32-40.	3.8	16
56	Isolation of two <i>Ochrobactrum</i> sp. strains capable of degrading the nootropic drug "Piracetam". <i>New Biotechnology</i> , 2018, 43, 37-43.	2.4	15
57	Herbicidal Ionic Liquids Containing the Acetylcholine Cation. <i>ChemPlusChem</i> , 2019, 84, 268-276.	1.3	15
58	Biological denitrification of brine: the effect of compatible solutes on enzyme activities and fatty acid degradation. <i>Biodegradation</i> , 2012, 23, 663-672.	1.5	14
59	Plant growth promoting <i>N</i> -alkyltropinium bromides enhance seed germination, biomass accumulation and photosynthesis parameters of maize (<i>Zea mays</i>). <i>New Journal of Chemistry</i> , 2019, 43, 5805-5812.	1.4	14
60	Relation between <i>Candida maltosa</i> Hydrophobicity and Hydrocarbon Biodegradation. <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 1273-1277.	1.7	13
61	Rhizosphere as a tool to introduce a soil-isolated hydrocarbon-degrading bacterial consortium into a wetland environment. <i>International Biodeterioration and Biodegradation</i> , 2015, 97, 135-142.	1.9	13
62	Influence of metal speciation on soil ecotoxicity impacts in life cycle assessment. <i>Journal of Environmental Management</i> , 2020, 266, 110611.	3.8	13
63	Electrokinetic and bioactive properties of CuO ⁺ SiO ₂ oxide composites. <i>Bioelectrochemistry</i> , 2012, 87, 50-57.	2.4	11
64	Quantifying the Mineralization of ¹³ 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> , 2020, 8, 3412-3426.	3.2	11
65	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> , 2021, 208, 111595.	2.9	11
66	Transformation of Iodosulfuron-Methyl into Ionic Liquids Enables Elimination of Additional Surfactants in Commercial Formulations of Sulfonylureas. <i>Molecules</i> , 2021, 26, 4396.	1.7	11
67	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> , 2009, 196, 345-353.	1.1	10
68	Bacterial isolates degrading ritalinic acid "human metabolite of neuro enhancer methylphenidate". <i>New Biotechnology</i> , 2018, 43, 30-36.	2.4	10
69	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 172-179.	2.9	10
70	Biodegradation of diesel fuel by a microbial consortium in the presence of 1-alkoxymethyl-2-methyl-5-hydroxypyridinium chloride homologues. <i>Biodegradation</i> , 2009, 20, 661-671.	1.5	8
71	Isolation of rhamnolipids-producing cultures from faeces: Influence of interspecies communication on the yield of rhamnolipid congeners. <i>New Biotechnology</i> , 2017, 36, 17-25.	2.4	8
72	Terrestrial Ecotoxic Impacts Stemming from Emissions of Cd, Cu, Ni, Pb and Zn from Manure: A Spatially Differentiated Assessment in Europe. <i>Sustainability</i> , 2018, 10, 4094.	1.6	6

#	ARTICLE	IF	CITATIONS
73	Genetic and chemical analyzes of transformations in compost compounds during biodegradation of oiled bleaching earth with waste sludge. <i>Bioresource Technology</i> , 2012, 114, 75-83.	4.8	5
74	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media. <i>Acta Biochimica Polonica</i> , 2013, 60, 789-93.	0.3	4
75	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> , 2020, 385, 121554.	6.5	3
76	Bioavailability of hydrocarbons to bacterial consortia during Triton X-100 mediated biodegradation in aqueous media.. <i>Acta Biochimica Polonica</i> , 2013, 60, .	0.3	3
77	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> , 2015, 226, 270.	1.1	2
78	Removal of nitrates from processing wastewater by cryoconcentration combined with biological denitrification. <i>Desalination and Water Treatment</i> , 2015, 54, 1903-1911.	1.0	2
79	Biodegradation of Conventional and Emerging Pollutants. <i>Molecules</i> , 2020, 25, 1186.	1.7	1
80	Structural and functional robustness of an environmental bacterial community degrading diesel fuel. <i>New Biotechnology</i> , 2016, 33, S128.	2.4	0
81	Frontispiece: Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. <i>Chemistry - A European Journal</i> , 2016, 22, .	1.7	0