

# Ewa Kaczorek

## List of Publications by Citations

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75  
papers

1,094  
citations

21  
h-index

29  
g-index

80  
ext. papers

1,357  
ext. citations

5.3  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
75	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
74	The influence of surfactants on cell surface properties of <i>Aeromonas hydrophila</i> during diesel oil biodegradation. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2010</b> , 81, 363-8	6	62
73	The Impact of Biosurfactants on Microbial Cell Properties Leading to Hydrocarbon Bioavailability Increase. <i>Colloids and Interfaces</i> , <b>2018</b> , 2, 35	3	51
72	Uptake of Hydrocarbon by <i>Pseudomonas fluorescens</i> (P1) and <i>Pseudomonas putida</i> (K1) Strains in the Presence of Surfactants: A Cell Surface Modification. <i>Water, Air, and Soil Pollution</i> , <b>2011</b> , 214, 451-459	3.6	47
71	Differences and dynamic changes in the cell surface properties of three <i>Pseudomonas aeruginosa</i> strains isolated from petroleum-polluted soil as a response to various carbon sources and the external addition of rhamnolipids. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3028-33	11	42
70	A promising laccase immobilization using electrospun materials for biocatalytic degradation of tetracycline: Effect of process conditions and catalytic pathways. <i>Catalysis Today</i> , <b>2020</b> , 348, 127-136	5.3	39
69	Influence of saponins on the biodegradation of halogenated phenols. <i>Ecotoxicology and Environmental Safety</i> , <b>2016</b> , 131, 127-34	7	35
68	Cell surface properties and fatty acids composition of <i>Stenotrophomonas maltophilia</i> under the influence of hydrophobic compounds and surfactants. <i>New Biotechnology</i> , <b>2013</b> , 30, 173-82	6.4	31
67	Isolation, preconcentration and determination of rhamnolipids in aqueous samples by dispersive liquid-liquid microextraction and liquid chromatography with tandem mass spectrometry. <i>Talanta</i> , <b>2011</b> , 83, 744-50	6.2	31
66	The Influence of Emulsifiers on Hydrocarbon Biodegradation by Pseudomonadacea and Bacillacea Strains. <i>Spill Science and Technology Bulletin</i> , <b>2003</b> , 8, 503-507		30
65	The impact of long-term contact of <i>Achromobacter</i> sp. 4(2010) with diesel oil [Changes in biodegradation, surface properties and hexadecane monooxygenase activity. <i>International Biodeterioration and Biodegradation</i> , <b>2013</b> , 78, 7-16	4.8	29
64	Spongin-Based Scaffolds from <i>Hippospongia communis</i> Demosponge as an Effective Support for Lipase Immobilization. <i>Catalysts</i> , <b>2017</b> , 7, 147	4	29
63	Sapindus saponins impact on hydrocarbon biodegradation by bacteria strains after short- and long-term contact with pollutant. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 142, 207-213	6	29
62	<i>Rahnella</i> sp. strain EK12: Cell surface properties and diesel oil biodegradation after long-term contact with natural surfactants and diesel oil. <i>Microbiological Research</i> , <b>2015</b> , 176, 38-47	5.3	28
61	Biodegradation of alkyl derivatives of aromatic hydrocarbons and cell surface properties of a strain of <i>Pseudomonas stutzeri</i> . <i>Chemosphere</i> , <b>2013</b> , 90, 471-8	8.4	28
60	Cell hydrophobicity of <i>Pseudomonas</i> spp. and <i>Bacillus</i> spp. bacteria and hydrocarbon biodegradation in the presence of <i>Quillaya</i> saponin. <i>World Journal of Microbiology and Biotechnology</i> , <b>2007</b> , 23, 677-682	4.4	27
59	The influence of cell immobilization by biofilm forming on the biodegradation capabilities of bacterial consortia. <i>World Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 27, 1183-1188	4.4	26

58	Immobilization of Amano Lipase A onto Stöber silica surface: process characterization and kinetic studies. <i>Open Chemistry</i> , <b>2014</b> , 13,	1.6	25
57	Modification of cell surface properties of <i>Pseudomonas alcaligenes</i> S22 during hydrocarbon biodegradation. <i>Biodegradation</i> , <b>2011</b> , 22, 359-66	4.1	23
56	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
55	Laccase Immobilized onto Zirconia/Silica Hybrid Doped with Cu as an Effective Biocatalytic System for Decolorization of Dyes. <i>Materials</i> , <b>2019</b> , 12,	3.5	22
54	Cell surface properties of <i>Pseudomonas stutzeri</i> in the process of diesel oil biodegradation. <i>Biotechnology Letters</i> , <b>2012</b> , 34, 857-62	3	21
53	Bacteria involved in biodegradation of creosote PAH - A case study of long-term contaminated industrial area. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 187, 109843	7	21
52	Modification of surface and enzymatic properties of <i>Achromobacter denitrificans</i> and <i>Stenotrophomonas maltophilia</i> in association with diesel oil biodegradation enhanced with alkyl polyglucosides. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 111, 36-42	6	17
51	<i>Saponaria officinalis</i> L. extract: Surface active properties and impact on environmental bacterial strains. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 150, 209-215	6	16
50	<i>Verbascum nigrum</i> L. (mullein) extract as a natural emulsifier. <i>Food Hydrocolloids</i> , <b>2018</b> , 81, 341-350	10.6	16
49	Characterization of St. John's wort ( <i>Hypericum perforatum</i> L.) and the impact of filtration process on bioactive extracts incorporated into carbohydrate-based hydrogels. <i>Food Hydrocolloids</i> , <b>2020</b> , 104, 105748	10.6	14
48	Alkyl polyglucosides as cell surface modification factors: influence of the alkyl chain length. <i>Toxicological and Environmental Chemistry</i> , <b>2016</b> , 98, 13-25	1.4	12
47	Alkyl Xylosides: Physico-Chemical Properties and Influence on Environmental Bacteria Cells. <i>Journal of Surfactants and Detergents</i> , <b>2017</b> , 20, 1269-1279	1.9	12
46	Nitrofurantoin-Microbial Degradation and Interactions with Environmental Bacterial Strains. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	12
45	Effect of GlucoPON 215 on cell surface properties of <i>Pseudomonas stutzeri</i> and diesel oil biodegradation. <i>International Biodeterioration and Biodegradation</i> , <b>2015</b> , 104, 129-135	4.8	12
44	Bacterial properties changing under Triton X-100 presence in the diesel oil biodegradation systems: from surface and cellular changes to mono- and dioxygenases activities. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 4305-15	5.1	11
43	Chitosan biocomposites with enzymatically produced nanocrystalline cellulose. <i>Polymer Composites</i> , <b>2018</b> , 39, E448-E456	3	11
42	Hydrocarbons biodegradation by activated sludge bacteria in the presence of natural and synthetic surfactants. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2016</b> , 51, 1262-1268	2.3	11
41	<i>Aesculus hippocastanum</i> L. extract as a potential emulsion stabilizer. <i>Food Hydrocolloids</i> , <b>2019</b> , 97, 105237.6	3.6	11

40	Biodegradation of oxyethylated fatty alcohols by bacteria Microbacterium strain E19. <i>Ecotoxicology and Environmental Safety</i> , <b>2013</b> , 91, 32-8	7	11
39	The influence of rhamnolipids on aliphatic fractions of diesel oil biodegradation by microorganism combinations. <i>Indian Journal of Microbiology</i> , <b>2013</b> , 53, 84-91	3.7	11
38	Biological impact of octyl d-glucopyranoside based surfactants. <i>Chemosphere</i> , <b>2019</b> , 217, 567-575	8.4	11
37	Relation between Candida maltosa Hydrophobicity and Hydrocarbon Biodegradation. <i>World Journal of Microbiology and Biotechnology</i> , <b>2005</b> , 21, 1273-1277	4.4	10
36	The ability of Achromobacter sp. KW1 strain to biodegrade isomers of chlorotoluene. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 2134-2141	3.5	9
35	Biodegradation of clotrimazole and modification of cell properties after metabolic stress and upon addition of saponins. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 161, 676-682	7	7
34	Increased biological removal of 1-chloronaphthalene as a result of exposure: A study of bacterial adaptation strategies. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 185, 109707	7	7
33	Wetting properties of Saponaria officinalis saponins. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 584, 123980	5.1	7
32	L. as a Stabilizer in Hemp Seed Oil Nanoemulsions for Potential Biomedical and Food Applications. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	7
31	Bacterial Biodegradation of 4-Monohalogenated Diphenyl Ethers in One-Substrate and Co-Metabolic Systems. <i>Catalysts</i> , <b>2018</b> , 8, 472	4	7
30	Co-Immobilization of Glucose Dehydrogenase and Xylose Dehydrogenase as a New Approach for Simultaneous Production of Gluconic and Xyonic Acid. <i>Materials</i> , <b>2019</b> , 12,	3.5	6
29	Combined Effect of Nitrofurantoin and Plant Surfactant on Bacteria Phospholipid Membrane. <i>Molecules</i> , <b>2020</b> , 25,	4.8	5
28	Best conditions for biodegradation of diesel oil by chemometric tools. <i>Brazilian Journal of Microbiology</i> , <b>2014</b> , 45, 117-26	2.2	5
27	Impact of potent bioremediation enhancing plant extracts on Raoultella ornithinolytica properties. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 145, 274-282	7	4
26	New Biocomposite Electrospun Fiber/Alginate Hydrogel for Probiotic Bacteria Immobilization. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
25	Properties and potential application of efficient biosurfactant produced by Pseudomonas sp. KZ1 strain. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2019</b> , 54, 110-117	2.3	4
24	Langmuir Monolayer Techniques for the Investigation of Model Bacterial Membranes and Antibiotic Biodegradation Mechanisms. <i>Membranes</i> , <b>2021</b> , 11,	3.8	4
23	Azole fungicides: (Bio)degradation, transformation products and toxicity elucidation. <i>Science of the Total Environment</i> , <b>2022</b> , 802, 149917	10.2	4

22	Hydrocarbon-induced changes in proteins and fatty acids profiles of <i>Raoultella ornithinolytica</i> M03. <i>Journal of Proteomics</i> , <b>2017</b> , 164, 43-51	3.9	3
21	Environmental Aspects of the Use of Extract in Bioremediation Process. <i>Microorganisms</i> , <b>2019</b> , 7,	4.9	3
20	Impact of Alkyl Polyglucosides Surfactant Lutensol GD 70 on Modification of Bacterial Cell Surface Properties. <i>Water, Air, and Soil Pollution</i> , <b>2015</b> , 226, 45	2.6	3
19	Three chlorotoluene-degrading bacterial strains: Differences in biodegradation potential and cell surface properties. <i>Chemosphere</i> , <b>2019</b> , 237, 124452	8.4	3
18	Modification of the Bacterial Cell Wall: Is the Bioavailability Important in Creosote Biodegradation?. <i>Processes</i> , <b>2020</b> , 8, 147	2.9	3
17	The metabolic pathways of polyhydroxyalkanoates and exopolysaccharides synthesized by <i>Haloferax mediterranei</i> in response to elevated salinity. <i>Journal of Proteomics</i> , <b>2021</b> , 232, 104065	3.9	3
16	Butylbenzene and -Butylbenzene-Sorption on Sand Particles and Biodegradation in the Presence of Plant Natural Surfactants. <i>Toxins</i> , <b>2018</b> , 10,	4.9	3
15	Environmental biodegradation of halophenols by activated sludge from two different sewage treatment plants. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2017</b> , 52, 1240-1246	2.3	2
14	Biodegradation of Oxyethylated Fatty Alcohols by Bacterium <i>Pseudomonas alcaligenes</i> ; AE Biodegradation by <i>Pseudomonas alcaligenes</i> . <i>Tenside, Surfactants, Detergents</i> , <b>2018</b> , 55, 43-48	1	2
13	Evaluation of surface active and antimicrobial properties of alkyl D-lyxosides and alkyl L-rhamnosides as green surfactants. <i>Chemosphere</i> , <b>2021</b> , 271, 129818	8.4	2
12	Investigation of the bacterial cell envelope nanomechanical properties after long-term exposure to nitrofurans. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124352	12.8	2
11	Exploring Elimination Kinetics of Four 5-Nitrofuran Derivatives by Microbes Present in Rural and Municipal Activated Sludge. <i>Water, Air, and Soil Pollution</i> , <b>2020</b> , 231, 1	2.6	1
10	Surfactant addition in diesel oil degradation - how can it help the microbes?. <i>Journal of Environmental Health Science &amp; Engineering</i> , <b>2020</b> , 18, 677-686	2.9	1
9	Multilevel changes in bacterial properties on long-term exposure to hydrocarbons and impact of these cells on fresh-water communities. <i>Science of the Total Environment</i> , <b>2020</b> , 729, 138956	10.2	1
8	Evaluation of the physico-chemical properties of hydrocarbons-exposed bacterial biomass. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 196, 111310	6	1
7	Evaluating the Effect of Azole Antifungal Agents on the Stress Response and Nanomechanical Surface Properties of <i>Asp12.2</i> . <i>Molecules</i> , <b>2020</b> , 25,	4.8	1
6	Nitrofurazone Removal from Water Enhanced by Coupling Photocatalysis and Biodegradation. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
5	Sustainable design of lignin-based spherical particles with the use of green surfactants and its application as sorbents in wastewater treatment. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 172, 34-42	5.5	1

4	Significance of the presence of antibiotics on the microbial consortium in wastewater - The case of nitrofurantoin and furazolidone. <i>Bioresource Technology</i> , <b>2021</b> , 339, 125577	11	1
3	Application of natural surfactants for improving the leaching of zinc and copper from different soils. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 101926	7	1
2	Enzymatic membrane reactor in xylose bioconversion with simultaneous cofactor regeneration.. <i>Bioorganic Chemistry</i> , <b>2022</b> , 123, 105781	5.1	0
1	An Effective Production of Bacterial Biosurfactant in the Bioreactor. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , <b>2018</b> , 409-422	0.3	