

Hermann-Josef Heipieper

List of Publications by Year in descending order

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143
papers

7,783
citations

44066

48
h-index

56717

83
g-index

150
all docs

150
docs citations

150
times ranked

8073
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of resistance of whole cells to toxic organic solvents. Trends in Biotechnology, 1994, 12, 409-415.	9.3	427
2	Conversion of cis unsaturated fatty acids to trans, a possible mechanism for the protection of phenol-degrading <i>Pseudomonas putida</i> P8 from substrate toxicity. Applied and Environmental Microbiology, 1992, 58, 1847-1852.	3.1	366
3	Solvent-tolerant bacteria for biotransformations in two-phase fermentation systems. Applied Microbiology and Biotechnology, 2007, 74, 961-973.	3.6	297
4	The cis- Δ^6 -trans isomerase of unsaturated fatty acids in <i>Pseudomonas</i> and <i>Vibrio</i> : biochemistry, molecular biology and physiological function of a unique stress adaptive mechanism. FEMS Microbiology Letters, 2003, 229, 1-7.	1.8	241
5	Membrane Vesicle Formation as a Multiple-Stress Response Mechanism Enhances <i>Pseudomonas putida</i> DOT-T1E Cell Surface Hydrophobicity and Biofilm Formation. Applied and Environmental Microbiology, 2012, 78, 6217-6224.	3.1	235
6	Influence of phenols on growth and membrane permeability of free and immobilized <i>Escherichia coli</i> . Applied and Environmental Microbiology, 1991, 57, 1213-1217.	3.1	235
7	Adaptation of <i>Pseudomonas putida</i> S12 to ethanol and toluene at the level of fatty acid composition of membranes. Applied and Environmental Microbiology, 1994, 60, 4440-4444.	3.1	216
8	Trans unsaturated fatty acids in bacteria. Lipids, 1996, 31, 129-137.	1.7	207
9	Microbial Degradation of Hydrocarbons – Basic Principles for Bioremediation: A Review. Molecules, 2020, 25, 856.	3.8	181
10	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.	9.6	162
11	Bacterial metabolism of environmental arsenic – mechanisms and biotechnological applications. Applied Microbiology and Biotechnology, 2013, 97, 3827-3841.	3.6	161
12	Biotechnological processes for biodiesel production using alternative oils. Applied Microbiology and Biotechnology, 2010, 88, 621-636.	3.6	152
13	Protection of bacteria against toxicity of phenol by immobilization in calcium alginate. Applied Microbiology and Biotechnology, 1989, 31, 383.	3.6	145
14	Degradation of macrolide antibiotics by ozone: A mechanistic case study with clarithromycin. Chemosphere, 2006, 65, 17-23.	8.2	142
15	Effect of aliphatic alcohols on growth and degree of saturation of membrane lipids in <i>Acinetobacter calcoaceticus</i> . FEMS Microbiology Letters, 2003, 220, 223-227.	1.8	129
16	Cells of <i>Pseudomonas putida</i> and <i>Enterobacter</i> sp. adapt to toxic organic compounds by increasing their size. Extremophiles, 2005, 9, 163-168.	2.3	119
17	The conversion of cis into trans unsaturated fatty acids in <i>Pseudomonas putida</i> P8: evidence for a role in the regulation of membrane fluidity. Applied Microbiology and Biotechnology, 1992, 38, 382.	3.6	116
18	Genome sequence and functional genomic analysis of the oil-degrading bacterium <i>Oleispira antarctica</i> . Nature Communications, 2013, 4, 2156.	12.8	115

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19	Prospects for harnessing biocide resistance for bioremediation and detoxification. <i>Science</i> , 2018, 360, 743-746.	12.6	114
20	<i>Desulfotobacterium aromaticivorans</i> sp. nov. and <i>Geobacter toluenoxydans</i> sp. nov., iron-reducing bacteria capable of anaerobic degradation of monoaromatic hydrocarbons. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 686-695.	1.7	113
21	The cis/trans isomerisation of unsaturated fatty acids in <i>Pseudomonas putida</i> S12: An indicator for environmental stress due to organic compounds. <i>Chemosphere</i> , 1995, 30, 1041-1051.	8.2	109
22	Cell wall adaptations of planktonic and biofilm <i>Rhodococcus erythropolis</i> cells to growth on C5 to C16 n-alkane hydrocarbons. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 311-320.	3.6	109
23	Simultaneous Degradation of Atrazine and Phenol by <i>Pseudomonas</i> sp. Strain ADP: Effects of Toxicity and Adaptation. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1907-1912.	3.1	104
24	Immediate response mechanisms of Gram-negative solvent-tolerant bacteria to cope with environmental stress: cis-trans isomerization of unsaturated fatty acids and outer membrane vesicle secretion. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2583-2593.	3.6	103
25	The degradation of bisphenol A by the newly isolated bacterium <i>Cupriavidus basilensis</i> JF1 can be enhanced by biostimulation with phenol. <i>International Biodeterioration and Biodegradation</i> , 2010, 64, 324-330.	3.9	88
26	Adaptation of the Hydrocarbonoclastic Bacterium <i>Alcanivorax borkumensis</i> SK2 to Alkanes and Toxic Organic Compounds: a Physiological and Transcriptomic Approach. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4282-4293.	3.1	85
27	Microbial cell-envelope fragments and the formation of soil organic matter: a case study from a glacier forefield. <i>Biogeochemistry</i> , 2013, 113, 595-612.	3.5	82
28	In situ proteomic highlights Burkholderiaceae as key players degrading toluene by para ring hydroxylation in a constructed wetland model. <i>Environmental Microbiology</i> , 2016, 18, 1176-1186.	3.8	81
29	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.	3.6	79
30	Alkanols and chlorophenols cause different physiological adaptive responses on the level of cell surface properties and membrane vesicle formation in <i>Pseudomonas putida</i> DOT-T1E. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 837-845.	3.6	78
31	Physiological and Transcriptome Response of the Polycyclic Aromatic Hydrocarbon Degrading <i>Novosphingobium</i> sp. LH128 after Inoculation in Soil. <i>Environmental Science & Technology</i> , 2017, 51, 1570-1579.	10.0	78
32	Effect of silver nanoparticles and silver ions on growth and adaptive response mechanisms of <i>Pseudomonas putida</i> mt-2. <i>FEMS Microbiology Letters</i> , 2014, 355, 71-77.	1.8	72
33	Mechanism of cis-trans Isomerization of Unsaturated Fatty Acids in <i>Pseudomonas putida</i> . <i>Journal of Bacteriology</i> , 2003, 185, 1730-1733.	2.2	71
34	Energetics and Surface Properties of <i>Pseudomonas putida</i> DOT-T1E in a Two-Phase Fermentation System with 1-Decanol as Second Phase. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4232-4238.	3.1	64
35	Toward Biorecycling: Isolation of a Soil Bacterium That Grows on a Polyurethane Oligomer and Monomer. <i>Frontiers in Microbiology</i> , 2020, 11, 404.	3.5	64
36	Adaptation of <i>Rhodococcus erythropolis</i> DCL14 to growth on n-alkanes, alcohols and terpenes. <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 383-388.	3.6	63

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37	Prediction of the Adaptability of <i>Pseudomonas putida</i> DOT-T1E to a Second Phase of a Solvent for Economically Sound Two-Phase Biotransformations. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6606-6612.	3.1	63
38	Adaptation of the psychrotroph <i>Arthrobacter chlorophenolicus</i> A6 to growth temperature and the presence of phenols by changes in the anteiso/iso ratio of branched fatty acids. <i>FEMS Microbiology Letters</i> , 2007, 266, 138-143.	1.8	62
39	Defined Microbial Mixed Culture for Utilization of Polyurethane Monomers. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17466-17474.	6.7	60
40	Cellular Toxicity of Lipophilic Compounds: Mechanisms, Implications, and Adaptations. <i>Biocatalysis</i> , 1994, 10, 113-122.	0.9	58
41	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. <i>Fuel</i> , 2014, 116, 321-327.	6.4	58
42	Expression of glutathione S-transferase and peptide methionine sulphoxide reductase in <i>Ochrobactrum anthropis</i> correlated to the production of reactive oxygen species caused by aromatic substrates. <i>FEMS Microbiology Letters</i> , 2004, 241, 151-156.	1.8	57
43	Incorporating dormancy in dynamic microbial community models. <i>Ecological Modelling</i> , 2011, 222, 3092-3102.	2.5	55
44	Impact of fermentation pH and temperature on freeze-drying survival and membrane lipid composition of <i>Lactobacillus coryniformis</i> Si3. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 175-181.	3.0	54
45	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.	9.6	54
46	Improving fatty acid methyl ester production yield in a lipase-catalyzed process using waste frying oils as feedstock. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 609-614.	2.2	53
47	Membrane fatty acids adaptive profile in the simultaneous presence of arsenic and toluene in <i>Bacillus</i> sp. ORAs2 and <i>Pseudomonas</i> sp. ORAs5 strains. <i>Extremophiles</i> , 2008, 12, 343-349.	2.3	52
48	Enhancement of the microbial community biomass and diversity during air sparging bioremediation of a soil highly contaminated with kerosene and BTEX. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 565-577.	3.6	52
49	Body Mass Parameters, Lipid Profiles and Protein Contents of Zebrafish Embryos and Effects of 2,4-Dinitrophenol Exposure. <i>PLoS ONE</i> , 2015, 10, e0134755.	2.5	49
50	How to accurately assess surfactant biodegradation-impact of sorption on the validity of results. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 1-12.	3.6	48
51	Yeast adaptation to 2,4-dichlorophenoxyacetic acid involves increased membrane fatty acid saturation degree and decreased OLE1 transcription. <i>Biochemical and Biophysical Research Communications</i> , 2005, 330, 271-278.	2.1	47
52	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.	8.2	44
53	Towards robust <i>Pseudomonas</i> cell factories to harbour novel biosynthetic pathways. <i>Essays in Biochemistry</i> , 2021, 65, 319-336.	4.7	44
54	Microbial Toluene Removal in Hypoxic Model Constructed Wetlands Occurs Predominantly via the Ring Monooxygenation Pathway. <i>Applied and Environmental Microbiology</i> , 2015, 81, 6241-6252.	3.1	43

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55	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.	8.0	43
56	Degradation state of organic matter in surface sediments from the Southern Beaufort Sea: a lipid approach. <i>Biogeosciences</i> , 2012, 9, 3513-3530.	3.3	42
57	Glycerophospholipid synthesis and functions in <i>Pseudomonas</i> . <i>Chemistry and Physics of Lipids</i> , 2015, 190, 27-42.	3.2	42
58	Ethanol tolerance and membrane fatty acid adaptation in adh multiple and null mutants of <i>Kluyveromyces lactis</i> . <i>Research in Microbiology</i> , 2000, 151, 777-784.	2.1	41
59	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.	3.9	41
60	Reductive dehalogenation mediated initiation of aerobic degradation of 2-chloro-4-nitrophenol (2C4NP) by <i>Burkholderia</i> sp. strain SJ98. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 597-607.	3.6	40
61	Rapid adaptation of <i>Rhodococcus erythropolis</i> cells to salt stress by synthesizing polyunsaturated fatty acids. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5599-606.	3.6	40
62	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.	4.2	38
63	Isolation and characterization of the <i>E. coli</i> membrane protein production strain Mutant56(DE3). <i>Scientific Reports</i> , 2017, 7, 45089.	3.3	38
64	Two naphthalene degrading bacteria belonging to the genera <i>Paenibacillus</i> and <i>Pseudomonas</i> isolated from a highly polluted lagoon perform different sensitivities to the organic and heavy metal contaminants. <i>Extremophiles</i> , 2009, 13, 839-848.	2.3	37
65	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.	6.0	37
66	Transcriptome and membrane fatty acid analyses reveal different strategies for responding to permeating and non-permeating solutes in the bacterium <i>Sphingomonas wittichii</i> . <i>BMC Microbiology</i> , 2011, 11, 250.	3.3	36
67	Anaerobically grown <i>Thauera aromatica</i> , <i>Desulfococcus multivorans</i> , <i>Geobacter sulfurreducens</i> are more sensitive towards organic solvents than aerobic bacteria. <i>Applied Microbiology and Biotechnology</i> , 2007, 77, 705-711.	3.6	35
68	<i>Rectinema cohabitans</i> gen. nov., sp. nov., a rod-shaped spirochaete isolated from an anaerobic naphthalene-degrading enrichment culture. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 1288-1295.	1.7	35
69	Rhamnolipid biosurfactants decrease the toxicity of chlorinated phenols to <i>Pseudomonas putida</i> DOT-T1E. <i>Letters in Applied Microbiology</i> , 2009, 48, 756-62.	2.2	34
70	Lipase-catalyzed process in an anhydrous medium with enzyme reutilization to produce biodiesel with low acid value. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 583-589.	2.2	34
71	Genome and physiology of the ascomycete filamentous fungus <i>Xeromyces bisporus</i> , the most xerophilic organism isolated to date. <i>Environmental Microbiology</i> , 2015, 17, 496-513.	3.8	34
72	Modulation of the glutathione S-transferase in <i>Ochrobactrum anthropi</i> : function of xenobiotic substrates and other forms of stress. <i>Biochemical Journal</i> , 2000, 346, 553-559.	3.7	33

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73	Plastic Biodegradation: Challenges and Opportunities. , 2018, , 1-29.		33
74	Formulation and stabilization of an <i>Arthrobacter</i> strain with good storage stability and 4-chlorophenol-degradation activity for bioremediation. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2031-2040.	3.6	33
75	Physiological response of <i>Pseudomonas putida</i> S12 subjected to reduced water activity. <i>FEMS Microbiology Letters</i> , 1996, 139, 133-137.	1.8	30
76	The trans/cis ratio of unsaturated fatty acids is not applicable as biomarker for environmental stress in case of long-term contaminated habitats. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 365-371.	3.6	29
77	Changes in Fatty Acid Composition of <i>Chromohalobacter israelensis</i> with Varying Salt Concentrations. <i>Current Microbiology</i> , 2005, 50, 151-154.	2.2	27
78	Exposure to Solute Stress Affects Genome-Wide Expression but Not the Polycyclic Aromatic Hydrocarbon-Degrading Activity of <i>Sphingomonas</i> sp. Strain LH128 in Biofilms. <i>Applied and Environmental Microbiology</i> , 2012, 78, 8311-8320.	3.1	26
79	Surface properties and intracellular speciation revealed an original adaptive mechanism to arsenic in the acid mine drainage bio-indicator <i>Euglena mutabilis</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1735-1744.	3.6	26
80	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.	8.2	26
81	Occurrence and properties of glutathione S-transferases in phenol-degrading <i>Pseudomonas</i> strains. <i>Research in Microbiology</i> , 2002, 153, 89-98.	2.1	25
82	Physiology and transcriptome of the polycyclic aromatic hydrocarbon-degrading <i>Sphingomonas</i> sp. LH128 after long-term starvation. <i>Microbiology (United Kingdom)</i> , 2013, 159, 1807-1817.	1.8	25
83	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.	3.8	25
84	Enterobacter sp. VKGH12 growing with n-butanol as the sole carbon source and cells to which the alcohol is added as pure toxin show considerable differences in their adaptive responses. <i>FEMS Microbiology Letters</i> , 2006, 254, 48-54.	1.8	24
85	The absence of SigX results in impaired carbon metabolism and membrane fluidity in <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2018, 8, 17212.	3.3	24
86	Increasing ibuprofen degradation in constructed wetlands by bioaugmentation with gravel containing biofilms of an ibuprofen-degrading <i>Sphingobium yanoikuyae</i> . <i>Engineering in Life Sciences</i> , 2020, 20, 160-167.	3.6	24
87	Adaptation in Toxic Environments: Arsenic Genomic Islands in the Bacterial Genus <i>Thiomonas</i> . <i>PLoS ONE</i> , 2015, 10, e0139011.	2.5	24
88	Aerobic Toluene Degradation in the Rhizosphere of a Constructed Wetland Model Show Diurnal Polyhydroxyalkanoate Metabolism. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4126-4132.	3.1	23
89	Genetic Cell-Surface Modification for Optimized Foam Fractionation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 572892.	4.1	22
90	High Stability and Fast Recovery of Expression of the TOL Plasmid-Carried Toluene Catabolism Genes of <i>Pseudomonas putida</i> mt-2 under Conditions of Oxygen Limitation and Oscillation. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6715-6723.	3.1	20

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91	Arsenite response in <i>Coccomyxa</i> sp. Carn explored by transcriptomic and non-targeted metabolomic approaches. <i>Environmental Microbiology</i> , 2016, 18, 1289-1300.	3.8	20
92	Adaptive response of <i>Rhodococcus opacus</i> PWD4 to salt and phenolic stress on the level of mycolic acids. <i>AMB Express</i> , 2016, 6, 66.	3.0	20
93	Toxicity of diatom polyunsaturated aldehydes to marine bacterial isolates reveals their mode of action. <i>Chemosphere</i> , 2017, 177, 258-265.	8.2	20
94	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.	2.5	20
95	LapF and Its Regulation by Fis Affect the Cell Surface Hydrophobicity of <i>Pseudomonas putida</i> . <i>PLoS ONE</i> , 2016, 11, e0166078.	2.5	20
96	A dual signalling pathway for the hypoxic expression of lipid genes, dependent on the glucose sensor Rag4, is revealed by the analysis of the KIMGA2 gene in <i>Kluyveromyces lactis</i> . <i>Microbiology (United Kingdom)</i> 101:101-110 (2017)	3.8	10
97	The regulation of the cis-trans isomerase of unsaturated fatty acids in <i>Pseudomonas putida</i> : correlation between <i>cti</i> activity and K ⁺ -uptake systems. <i>European Journal of Lipid Science and Technology</i> , 2003, 105, 585-589.	1.5	18
98	<i>Monaibacterium marinum</i> , gen. nov, sp. nov, a new member of the Alphaproteobacteria isolated from seawater of Menai Straits, Wales, UK. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 3310-3317.	1.7	18
99	<i>Delftia</i> sp. LCW, a strain isolated from a constructed wetland shows novel properties for dimethylphenol isomers degradation. <i>BMC Microbiology</i> , 2018, 18, 108.	3.3	17
100	Carbon isotope fractionation during cis-trans isomerization of unsaturated fatty acids in <i>Pseudomonas putida</i> . <i>Applied Microbiology and Biotechnology</i> , 2004, 66, 285-290.	3.6	16
101	Physiological evidence for the presence of a cis-trans isomerase of unsaturated fatty acids in <i>Methylococcus capsulatus</i> Bath to adapt to the presence of toxic organic compounds. <i>FEMS Microbiology Letters</i> , 2010, 308, 68-75.	1.8	16
102	Osmotic stress in colony and planktonic cells of <i>Pseudomonas putida</i> mt-2 revealed significant differences in adaptive response mechanisms. <i>AMB Express</i> , 2017, 7, 62.	3.0	16
103	Formation of specialized aerial architectures by <i>Rhodococcus</i> during utilization of vaporized p-cresol. <i>Microbiology (United Kingdom)</i> , 2009, 155, 3788-3796.	1.8	15
104	Modulation of the glutathione S-transferase in <i>Ochrobactrum anthropi</i> : function of xenobiotic substrates and other forms of stress. <i>Biochemical Journal</i> , 2000, 346, 553.	3.7	14
105	Isolation and characterization of <i>Magnetospirillum</i> sp. strain 15-1 as a representative anaerobic toluene-degrader from a constructed wetland model. <i>PLoS ONE</i> , 2017, 12, e0174750.	2.5	14
106	Extracellular degradation of a polyurethane oligomer involving outer membrane vesicles and further insights on the degradation of 2,4-diaminotoluene in <i>Pseudomonas capeferrum</i> TDA1. <i>Scientific Reports</i> , 2022, 12, 2666.	3.3	14
107	KHsl1 is a component of glycerol response pathways in the milk yeast <i>Kluyveromyces lactis</i> . <i>Microbiology (United Kingdom)</i> , 2011, 157, 1509-1518.	1.8	13
108	Effects of limonene, n-decane and n-decanol on growth and membrane fatty acid composition of the microalga <i>Botryococcus braunii</i> . <i>AMB Express</i> , 2018, 8, 189.	3.0	13

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109	Methane oxidation by Dutch grassland and peat soil microflora. <i>Chemosphere</i> , 1997, 35, 3025-3037.	8.2	11
110	Quantification of outer membrane vesicles: a potential tool to compare response in <i>Pseudomonas putida</i> KT2440 to stress caused by alkanols. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4193-4201.	3.6	11
111	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. <i>Earth System Science Data</i> , 2021, 13, 1561-1592.	9.9	11
112	<i>Klebsiellasp.</i> strain C2A isolated from olive oil mill waste is able to tolerate and degrade tannic acid in very high concentrations. <i>FEMS Microbiology Letters</i> , 2013, 343, 105-112.	1.8	11
113	Hybrid electrochemical and biological treatment of herbicidal ionic liquids comprising the MCPA anion. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 172-179.	6.0	10
114	Environmentally Relevant Concentration of Bisphenol S Shows Slight Effects on SIHUMlx. <i>Microorganisms</i> , 2020, 8, 1436.	3.6	10
115	Biostimulation by methanol enables the methylotrophic yeasts <i>Hansenula polymorpha</i> and <i>Trichosporon sp.</i> to reveal high formaldehyde biodegradation potential as well as to adapt to this toxic pollutant. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 5555-5564.	3.6	9
116	Solvent stress-induced changes in membrane fatty acid composition of denitrifying bacteria reduce the extent of nitrogen stable isotope fractionation during denitrification. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 275-283.	3.9	8
117	Impact of gaseous NO ₂ on <i>p. fluorescens</i> strain in the membrane adaptation and virulence. <i>International Journal of Environmental Impacts Management Mitigation and Recovery</i> , 2018, 1, 183-192.	0.4	8
118	Functional Characterization of a 28-Kilobase Catabolic Island from <i>Pseudomonas sp.</i> Strain M1 Involved in Biotransformation of Î ² -Myrcene and Related Plant-Derived Volatiles. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	7
119	ER stress induced by the OCH1 mutation triggers changes in lipid homeostasis in <i>Kluyveromyces lactis</i> . <i>Research in Microbiology</i> , 2015, 166, 84-92.	2.1	6
120	In vitro and in vivo lipidomics as a tool for probiotics evaluation. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8937-8948.	3.6	6
121	Benzylsuccinate Synthase is Post-Transcriptionally Regulated in the Toluene-Degrading Denitrifier <i>Magnetospirillum sp.</i> Strain 15-1. <i>Microorganisms</i> , 2020, 8, 681.	3.6	6
122	Enzymatic Activation of the cis-Trans Isomerase and Transcriptional Regulation of Efflux Pumps in Solvent Tolerance in <i>Pseudomonas Putida</i> . , 2004, , 479-508.		6
123	Draft Genome Sequence of <i>Magnetospirillum</i> sp. Strain 15-1, a Denitrifying Toluene Degrader Isolated from a Planted Fixed-Bed Reactor. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
124	Plastic Biodegradation: Challenges and Opportunities. , 2019, , 333-361.		5
125	Gaseous NO ₂ induces various envelope alterations in <i>Pseudomonas fluorescens</i> MFAF76a. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
126	Adaptation of <i>Escherichia coli</i> to Ethanol on the Level of Membrane Fatty Acid Composition. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3388-3388.	3.1	4

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127	Viability and stress state of bacteria associated with primary production or zooplankton-derived suspended particulate matter in summer along a transect in Baffin Bay (Arctic Ocean). <i>Science of the Total Environment</i> , 2021, 770, 145252.	8.0	4
128	Toxicity of Hydrocarbons to Microorganisms. , 2018, , 335-344.		3
129	Reports on Symposia and Congresses: Eur. J. Lipid Sci. Technol. 7/2003. <i>European Journal of Lipid Science and Technology</i> , 2003, 105, 385-385.	1.5	2
130	The role of energy-efficient biotechnological processes in the waste management industry. <i>Waste Management and Research</i> , 2011, 29, 563-564.	3.9	2
131	Surface Properties and Cellular Energetics of Bacteria in Response to the Presence of Hydrocarbons. , 2018, , 397-408.		2
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