MikoÅ‚aj Owsianiak

List of Publications by Year
in descending order

64 papers	2,295 citations	185998 28 h-index	233125 45 g-index
66 all docs	66 docs citations	66 times ranked	2216 citing authors

#	Article	IF	Citations
1	Performance of second-generation microbial protein used as aquaculture feed in relation to planetary boundaries. Resources, Conservation and Recycling, 2022, 180, 106158.	5.3	13
2	Environmental and economic impacts of biochar production and agricultural use in six developing and middle-income countries. Science of the Total Environment, 2021, 755, 142455.	3.9	30
3	Multiple Climate Tipping Points Metrics for Improved Sustainability Assessment of Products and Services. Environmental Science & Technology, 2021, 55, 2800-2810.	4.6	5
4	Inclusion of multiple climate tipping as a new impact category in life cycle assessment of polyhydroxyalkanoate (PHA)-based plastics. Science of the Total Environment, 2021, 788, 147544.	3.9	22
5	Assessing the sustainability implications of research projects against the 17 UN sustainable development goals. Procedia CIRP, 2020, 90, 148-153.	1.0	3
6	Metal residues in macroalgae feedstock and implications for microbial fermentation. Biomass and Bioenergy, 2020, 142, 105812.	2.9	6
7	Downscaling the planetary boundaries in absolute environmental sustainability assessments â€" A review. Journal of Cleaner Production, 2020, 276, 123287.	4.6	87
8	An (Eco)Toxicity Life Cycle Impact Assessment Framework for Per- And Polyfluoroalkyl Substances. Environmental Science & Technology, 2020, 54, 6224-6234.	4.6	33
9	Influence of metal speciation on soil ecotoxicity impacts in life cycle assessment. Journal of Environmental Management, 2020, 266, 110611.	3.8	13
10	LCâ€IMPACT: A regionalized life cycle damage assessment method. Journal of Industrial Ecology, 2020, 24, 1201-1219.	2.8	80
11	Setting Better-Informed Climate Targets for New Zealand: The Influence of Value and Modeling Choices. Environmental Science & Technology, 2020, 54, 4515-4527.	4.6	9
12	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
13	Life cycle inventory data for banana-fiber-based biocomposite lids. Data in Brief, 2020, 30, 105605.	0.5	5
14	Review of life-cycle based methods for absolute environmental sustainability assessment and their applications. Environmental Research Letters, 2020, 15, 083001.	2.2	121
15	Comparative life cycle assessment of coffee jar lids made from biocomposites containing poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlo	3.8	36
16	Evaluation of hydrothermal carbonization in urban mining for the recovery of phosphorus from the organic fraction of municipal solid waste. Resources, Conservation and Recycling, 2019, 147, 111-118.	5.3	31
17	The role of life cycle engineering (LCE) in meeting the sustainable development goals â€" report from a consultation of LCE experts. Journal of Cleaner Production, 2019, 230, 378-382.	4.6	33
18	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

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19	Development of a life-cycle impact assessment methodology linked to the Planetary Boundaries framework. Ecological Indicators, 2018, 88, 250-262.	2.6	124
20	How to bring absolute sustainability into decision-making: An industry case study using a Planetary Boundary-based methodology. Science of the Total Environment, 2018, 634, 1406-1416.	3.9	109
21	Improving environmental performance of post-harvest supply chains of fruits and vegetables in Europe: Potential contribution from ultrasonic humidification. Journal of Cleaner Production, 2018, 182, 16-26.	4.6	31
22	Evaluating climate change mitigation potential of hydrochars: compounding insights from three different indicators. GCB Bioenergy, 2018, 10, 230-245.	2.5	18
23	LCA of Soil and Groundwater Remediation. , 2018, , 927-959.		2
24	Illustrative Case Study: Life Cycle Assessment of Four Window Alternatives. , 2018, , 1059-1146.		2
25	LCA Applications. , 2018, , 31-41.		7
26	Goal Definition. , 2018, , 67-74.		5
27	Main Characteristics of LCA. , 2018, , 9-16.		22
28	LCA History. , 2018, , 17-30.		31
29	Scope Definition. , 2018, , 75-116.		21
30	Life Cycle Inventory Analysis. , 2018, , 117-165.		17
31	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
32	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
33	Making hydrochar suitable for agricultural soil: A thermal treatment to remove organic phytotoxic compounds. Journal of Environmental Chemical Engineering, 2018, 6, 7029-7034.	3.3	51
34	Life cycle assessment in corporate sustainability reporting: Global, regional, sectoral, and companyâ€level trends. Business Strategy and the Environment, 2018, 27, 1751-1764.	8.5	30
35	Toward harmonizing ecotoxicity characterization in life cycle impact assessment. Environmental Toxicology and Chemistry, 2018, 37, 2955-2971.	2.2	62
36	Influence of spatial differentiation in impact assessment for LCA-based decision support: Implementation of biochar technology in Indonesia. Journal of Cleaner Production, 2018, 200, 259-268.	4.6	17

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37	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
38	Human health no-effect levels of TiO2 nanoparticles as a function of their primary size. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	10
39	Potentials and limitations of footprints for gauging environmental sustainability. Current Opinion in Environmental Sustainability, 2017, 25, 20-27.	3.1	44
40	Environmental Performance of Hydrothermal Carbonization of Four Wet Biomass Waste Streams at Industry-Relevant Scales. ACS Sustainable Chemistry and Engineering, 2016, 4, 6783-6791.	3.2	65
41	Structural and functional robustness of an environmental bacterial community degrading diesel fuel. New Biotechnology, 2016, 33, S128.	2.4	0
42	Evaluating robustness of a diesel-degrading bacterial consortium isolated from contaminated soil. New Biotechnology, 2016, 33, 852-859.	2.4	30
43	Challenges in implementing a Planetary Boundaries based Life-Cycle Impact Assessment methodology. Journal of Cleaner Production, 2016, 139, 450-459.	4.6	70
44	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
45	Assessing comparative terrestrial ecotoxicity of Cd, Co, Cu, Ni, Pb, and Zn: The influence of aging and emission source. Environmental Pollution, 2015, 206, 400-410.	3.7	39
46	Power generation from chemically cleaned coals: do environmental benefits of firing cleaner coal outweigh environmental burden of cleaning?. Energy and Environmental Science, 2015, 8, 2435-2447.	15.6	28
47	Strengthening the Link between Life Cycle Assessment and Indicators for Absolute Sustainability To Support Development within Planetary Boundaries. Environmental Science & Technology, 2015, 49, 6370-6371.	4.6	67
48	IMPACT 2002+, ReCiPe 2008 and ILCDâ€™s recommended practice for characterization modelling in life cycle impact assessment: a case study-based comparison. International Journal of Life Cycle Assessment, 2014, 19, 1007-1021.	2.2	107
49	Biodegradation of diesel/biodiesel blends in saturated sand microcosms. Fuel, 2014, 116, 321-327.	3.4	58
50	Elucidating differences in metal absorption efficiencies between terrestrial soft-bodied and aquatic species. Chemosphere, 2014, 112, 487-495.	4.2	15
51	Mapping and characterization of LCA networks. International Journal of Life Cycle Assessment, 2013, 18, 812-827.	2.2	19
52	Addressing Geographic Variability in the Comparative Toxicity Potential of Copper and Nickel in Soils. Environmental Science & Technology, 2013, 47, 3241-3250.	4.6	49
53	Assessing Environmental Sustainability of Remediation Technologies in a Life Cycle Perspective is Not So Easy. Environmental Science & Technology, 2013, 47, 1182-1183.	4.6	27
54	Defining and Mapping LCA Networks: Initial Results. , 2012, , 137-141.		1

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55	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
56	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
57	Evaluation of Bioaugmentation with Entrapped Degrading Cells as a Soil Remediation Technology. Environmental Science & Technology, 2010, 44, 7622-7627.	4.6	21
58	Biodegradation in a Partially Saturated Sand Matrix: Compounding Effects of Water Content, Bacterial Spatial Distribution, and Motility. Environmental Science & Technology, 2010, 44, 2386-2392.	4.6	48
59	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
60	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
61	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
62	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
63	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
64	Identification of dissipative emissions for improved assessment of metal resources in life cycle assessment. Journal of Industrial Ecology, 0, , .	2.8	8