

Ligia Barna

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

520
citations

566801

15
h-index

642321

23
g-index

25
all docs

25
docs citations

25
times ranked

585
citing authors

#	ARTICLE	IF	CITATIONS
1	Addressing temporal considerations in life cycle assessment. <i>Science of the Total Environment</i> , 2020, 743, 140700.	3.9	61
2	Framework and computational tool for the consideration of time dependency in Life Cycle Inventory: proof of concept. <i>Journal of Cleaner Production</i> , 2016, 116, 198-206.	4.6	48
3	Sensitivity analysis of temporal parameters in a dynamic LCA framework. <i>Science of the Total Environment</i> , 2018, 624, 1250-1262.	3.9	47
4	An integrated "process modelling-life cycle assessment" tool for the assessment and design of water treatment processes. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1062-1070.	2.2	43
5	Evaluating climate change pathways through a building's lifecycle based on Dynamic Life Cycle Assessment. <i>Building and Environment</i> , 2019, 164, 106377.	3.0	30
6	Environmental assessment of urine, black and grey water separation for resource recovery in a new district compared to centralized wastewater resources recovery plant. <i>Journal of Cleaner Production</i> , 2021, 301, 126868.	4.6	28
7	Operational integration of time dependent toxicity impact category in dynamic LCA. <i>Science of the Total Environment</i> , 2017, 599-600, 806-819.	3.9	24
8	A semantic study of the Energy Sustainability Index in the hybrid lifecycle-energy framework. <i>Ecological Indicators</i> , 2014, 43, 252-261.	2.6	23
9	Feasibility of rigorous multi-objective optimization of wastewater management and treatment plants. <i>Chemical Engineering Research and Design</i> , 2016, 115, 394-406.	2.7	23
10	A metrics-based approach to preparing sustainable membranes: application to ultrafiltration. <i>Green Chemistry</i> , 2019, 21, 4457-4469.	4.6	23
11	Formalization of a technical procedure for process ecodesign dedicated to drinking water treatment plants. <i>Journal of Cleaner Production</i> , 2014, 68, 16-24.	4.6	20
12	Leaching of hazardous substances from a composite construction product " An experimental and modelling approach for fibre-cement sheets. <i>Journal of Hazardous Materials</i> , 2014, 264, 236-245.	6.5	19
13	Analysis and modelling of non-equilibrium sorption of aromatic micro-pollutants on GAC with a multi-compartment dynamic model. <i>Chemical Engineering Journal</i> , 2010, 160, 457-465.	6.6	16
14	Quantitative geochemical modelling using leaching tests: Application for coal ashes produced by two South African thermal processes. <i>Journal of Hazardous Materials</i> , 2011, 186, 1163-1173.	6.5	16
15	Process-based LCA of ultrafiltration for drinking water production. <i>Water Research</i> , 2021, 199, 117156.	5.3	16
16	Modelling inorganic biocide emission from treated wood in water. <i>Journal of Hazardous Materials</i> , 2011, 192, 1476-1483.	6.5	15
17	Circular bioeconomy: Life cycle assessment of scaled-up cascading production from orange peel waste under current and future electricity mixes. <i>Science of the Total Environment</i> , 2022, 812, 152574.	3.9	15
18	A generic process modelling " LCA approach for UF membrane fabrication: Application to cellulose acetate membranes. <i>Journal of Membrane Science</i> , 2021, 618, 118594.	4.1	14

#	ARTICLE	IF	CITATIONS
19	Biocide leaching from CBA treated wood " A mechanistic interpretation. Science of the Total Environment, 2013, 444, 522-530.	3.9	9
20	Modelling inorganic and organic biocide leaching from CBA-amine (Copper" Boron" Azole) treated wood based on characterisation leaching tests. Science of the Total Environment, 2013, 461-462, 645-654.	3.9	8
21	A first global and spatially explicit emergy database of rivers and streams based on high-resolution GIS-maps. Ecological Modelling, 2014, 281, 52-64.	1.2	8
22	An eco-design approach for an innovative production process of low molar mass dextran. Green Chemistry, 2019, 21, 4512-4531.	4.6	5
23	A climate goal"based, multicriteria method for system evaluation in life cycle assessment. International Journal of Life Cycle Assessment, 2021, 26, 1913-1931.	2.2	4
24	Does substituting reprotoxic solvents during ultrafiltration membrane fabrication really mitigate environmental impacts? Focus on drinking water production. Journal of Cleaner Production, 2022, 337, 130476.	4.6	4
25	Modeling equations and dataset of model parameters for ultrafiltration membrane fabrication. Data in Brief, 2020, 33, 106363.	0.5	1