Benedetto Rugani

List of Publications by Year
in descending order

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73 papers	2,571 citations	201575 27 h-index	206029 48 g-index
75 all docs	75 docs citations	75 times ranked	2945 citing authors

#	Article	IF	Citations
1	A comprehensive review of carbon footprint analysis as an extended environmental indicator in the wine sector. Journal of Cleaner Production, 2013, 54, 61-77.	4.6	199
2	Nexus between nature-based solutions, ecosystem services and urban challenges. Land Use Policy, 2021, 100, 104898.	2.5	150
3	A review of urban metabolism studies to identify key methodological choices for future harmonization and implementation. Journal of Cleaner Production, 2017, 163, S223-S240.	4.6	145
4	Impact of COVID-19 outbreak measures of lockdown on the Italian Carbon Footprint. Science of the Total Environment, 2020, 737, 139806.	3.9	109
5	Improvements to Emergy Evaluations by Using Life Cycle Assessment. Environmental Science & Technology, 2012, 46, 4701-4712.	4.6	108
6	Combination of equilibrium models and hybrid life cycle - inputâ€“output analysis to predict the environmental impacts of energy policy scenarios. Applied Energy, 2015, 145, 234-245.	5.1	95
7	Mineral resources in life cycle impact assessmentâ€”part I: a critical review of existing methods. International Journal of Life Cycle Assessment, 2020, 25, 784-797.	2.2	95
8	Tapping carbon footprint variations in the European wine sector. Journal of Cleaner Production, 2013, 43, 146-155.	4.6	88
9	Mineral resources in life cycle impact assessment: part II â€“ recommendations on application-dependent use of existing methods and on future method development needs. International Journal of Life Cycle Assessment, 2020, 25, 798-813.	2.2	84
10	Integrating emergy into LCA: Potential added value and lingering obstacles. Ecological Modelling, 2014, 271, 4-9.	1.2	83
11	A Revision of What Life Cycle Sustainability Assessment Should Entail: Towards Modeling the Net Impact on Human Wellâ€Being. Journal of Industrial Ecology, 2017, 21, 1464-1477.	2.8	81
12	On the feasibility of using emergy analysis as a source of benchmarking criteria through data envelopment analysis: A case study for wind energy. Energy, 2014, 67, 527-537.	4.5	78
13	Assessing habitat loss, fragmentation and ecological connectivity in Luxembourg to support spatial planning. Landscape and Urban Planning, 2019, 189, 335-351.	3.4	71
14	Towards integrating the ecosystem services cascade framework within the Life Cycle Assessment (LCA) cause-effect methodology. Science of the Total Environment, 2019, 690, 1284-1298.	3.9	70
15	Solar Energy Demand (SED) of Commodity Life Cycles. Environmental Science & Technology, 2011, 45, 5426-5433.	4.6	67
16	Assessment of Life Cycle Impacts on Ecosystem Services: Promise, Problems, and Prospects. Environmental Science & Technology, 2016, 50, 1077-1092.	4.6	61
17	An inputâ€“output based framework to evaluate human labour in life cycle assessment. International Journal of Life Cycle Assessment, 2012, 17, 795-812.	2.2	60
18	Integrated earth system dynamic modeling for life cycle impact assessment of ecosystem services. Science of the Total Environment, 2014, 472, 262-272.	3.9	54

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19	SCALE: Software for CALculating Emergy based on life cycle inventories. Ecological Modelling, 2013, 248, 80-91.	1.2	45
20	Towards lower carbon footprint patterns of consumption: The case of drinking water in Italy. Environmental Science and Policy, 2011, 14, 388-395.	2.4	42
21	Integration of ecosystem services into a conceptual spatial planning framework based on a landscape ecology perspective. Landscape Ecology, 2018, 33, 2047-2059.	1.9	41
22	Ecological deficit and use of natural capital in Luxembourg from 1995 to 2009. Science of the Total Environment, 2014, 468-469, 292-301.	3.9	40
23	An improved life cycle impact assessment principle for assessing the impact of land use on ecosystem services. Science of the Total Environment, 2019, 693, 133374.	3.9	39
24	Remotely sensed spatial heterogeneity as an exploratory tool for taxonomic and functional diversity study. Ecological Indicators, 2018, 85, 983-990.	2.6	35
25	The real water consumption behind drinking water: The case of Italy. Journal of Environmental Management, 2011, 92, 2611-2618.	3.8	30
26	Pathways to Modelling Ecosystem Services within an Urban Metabolism Framework. Sustainability, 2019, 11, 2766.	1.6	30
27	Emergy evaluation of water treatment processes. Ecological Engineering, 2013, 60, 172-182.	1.6	29
28	Environmental impact assessment and monetary ecosystem service valuation of an ecosystem under different future environmental change and management scenarios; a case study of a Scots pine forest. Journal of Environmental Management, 2016, 173, 79-94.	3.8	28
29	Rebound effects due to economic choices when assessing the environmental sustainability of wine. Food Policy, 2014, 49, 167-173.	2.8	27
30	Implications of a consumer-based perspective for the estimation of GHG emissions. The illustrative case of Luxembourg. Science of the Total Environment, 2015, 508, 67-75.	3.9	26
31	Spatial optimisation of urban ecosystem services through integrated participatory and multi-objective integer linear programming. Ecological Modelling, 2019, 409, 108774.	1.2	26
32	Quantification and valuation of ecosystem services in life cycle assessment: Application of the cascade framework to rice farming systems. Science of the Total Environment, 2020, 747, 141278.	3.9	24
33	A semantic study of the Emergy Sustainability Index in the hybrid lifecycle-emergy framework. Ecological Indicators, 2014, 43, 252-261.	2.6	23
34	Transformation tools enabling the implementation of nature-based solutions for creating a resourceful circular city. Blue-Green Systems, 2020, 2, 188-213.	0.6	21
35	Modelling the relationships between urban land cover change and local climate regulation to estimate urban heat island effect. Urban Forestry and Urban Greening, 2020, 50, 126650.	2.3	20
36	How Do Stakeholders Working on the Forestâ€“Water Nexus Perceive Payments for Ecosystem Services?. Forests, 2020, 11, 12.	0.9	20

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37	Analysis of complementary methodologies to assess the environmental impact of Luxembourg's net consumption. Environmental Science and Policy, 2013, 27, 68-80.	2.4	19
38	Emergy-based mid-point valuation of ecosystem goods and services for life cycle impact assessment. Revue De Metallurgie, 2013, 110, 249-264.	0.3	18
39	The effect of green roofs on the reduction of mortality due to heatwaves: Results from the application of a spatial microsimulation model to four European cities. Ecological Modelling, 2020, 438, 109351.	1.2	16
40	Emergy evaluation using the calculation software SCALE: Case study, added value and potential improvements. Science of the Total Environment, 2014, 472, 608-619.	3.9	15
41	A Proposal to Integrate System Dynamics and Carbon Metabolism for Urban Planning. Procedia CIRP, 2018, 69, 78-82.	1.0	15
42	Impacts of policy on urban energy metabolism at tackling climate change: The case of Lisbon. Journal of Cleaner Production, 2020, 276, 123510.	4.6	15
43	Ecosystem service deficits of European cities. Science of the Total Environment, 2022, 837, 155875.	3.9	15
44	Uncertainty analysis in integrated environmental models for ecosystem service assessments: Frameworks, challenges and gaps. Ecosystem Services, 2018, 33, 110-123.	2.3	14
45	Emergy evaluation vs. life cycle-based embodied energy (solar, tidal and geothermal) of wood biomass resources. Ecological Indicators, 2014, 36, 419-430.	2.6	13
46	Environmental and economic assessment of biomass sourcing from extensively cultivated buffer strips along water bodies. Environmental Science and Policy, 2016, 57, 31-39.	2.4	13
47	Predicting Sustainable Economic Welfare â€“ Analysis and perspectives for Luxembourg based on energy policy scenarios. Technological Forecasting and Social Change, 2018, 137, 288-303.	6.2	13
48	Life Cycle Assessment in the Wine Sector. , 2015, , 123-184.		13
49	Simulation of environmental impact scores within the life cycle of mixed wood chips from alternative short rotation coppice systems in Flanders (Belgium). Applied Energy, 2015, 156, 449-464.	5.1	12
50	Towards prospective life cycle sustainability analysis: exploring complementarities between social and environmental life cycle assessments for the case of Luxembourgâ€™s energy system. Materiaux Et Techniques, 2014, 102, 605.	0.3	12
51	Environmental performance of a XIV Century water management system: An emergy evaluation of cultural heritage. Resources, Conservation and Recycling, 2011, 56, 117-125.	5.3	11
52	On the Complexity of Life Cycle Inventory Networks: Role of Life Cycle Processes with Network Analysis. Journal of Industrial Ecology, 2016, 20, 1094-1107.	2.8	10
53	Application of life cycle assessment to the production of man-made crystal glass. International Journal of Life Cycle Assessment, 2009, 14, 490-501.	2.2	9
54	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

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55	A research perspective towards a more complete biodiversity footprint: a report from the World Biodiversity Forum. International Journal of Life Cycle Assessment, 2021, 26, 238-243.	2.2	8
56	PESFOR-W: Improving the design and environmental effectiveness of woodlands for water Payments for Ecosystem Services. Research Ideas and Outcomes, 0, 3, .	1.0	8
57	Life Cycle Assessment Applied to Nature-Based Solutions: Learnings, Methodological Challenges, and Perspectives from a Critical Analysis of the Literature. Land, 2022, 11, 649.	1.2	8
58	Boosting the use of spectral heterogeneity in the impact assessment of agricultural land use on biodiversity. Journal of Cleaner Production, 2017, 140, 516-524.	4.6	7
59	An integratedfootprintbased approach for environmental labelling of products: the case of drinking bottled water. International Journal of Design and Nature and Ecodynamics, 2010, 5, 68-75.	0.3	7
60	A spatiotemporally differentiated product system modelling framework for consequential life cycle assessment. Journal of Cleaner Production, 2022, 333, 130127.	4.6	7
61	Integrated environmental assessment of future energy scenarios based on economic equilibrium models. Metallurgical Research and Technology, 2014, 111, 179-189.	0.4	6
62	Using graph search algorithms for a rigorous application of emergy algebra rules. Revue De Metallurgie, 2013, 110, 87-94.	0.3	5
63	Substantiating the cross-fertilization among LCA and ecosystem services and biodiversity assessment. Ecosystem Services, 2017, 23, 156-157.	2.3	5
64	Accounting for the emergy value of life cycle inventory systems: insights from recent methodological advances. Journal of Environmental Accounting and Management, 2013, 1, 103-117.	0.3	5
65	Positioning of remotely sensed spectral heterogeneity in the framework of life cycle impact assessment on biodiversity. Ecological Indicators, 2016, 61, 923-927.	2.6	4
66	Is Agent-Based Simulation a Valid Tool for Studying the Impact of Nature-Based Solutions on Local Economy? A Case Study of Four European Cities. Sustainability, 2021, 13, 7466.	1.6	3
67	Integrated Environmental Assessment of Future Energy Scenarios Based on Economic Equilibrium Models. SSRN Electronic Journal, 0, , .	0.4	3
68	â€œSocio-economic Design and Natureâ€•: a possible representation through ecological footprint. WIT Transactions on Ecology and the Environment, 2010, , .	0.0	3
69	An emergy evaluation of a medieval water management system: the case of the underground â€œBottiniâ€•in Siena (Italy). WIT Transactions on Ecology and the Environment, 2010, , .	0.0	1
70	Arsenic pollution in the southwest of Tuscany: monitoring of Cornia catchment basin. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	1
71	Environmental Externalities in Global Trade for Wine and Other Alcoholic Beverages. , 2019, , 98-104.		0
72	Decrease in life expectancy due to COVID-19 disease not offset by reduced environmental impacts associated with lockdowns in Italy. Environmental Pollution, 2021, 292, 118224.	3.7	0

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73	Life Cycle Assessment (LCA) combined with EMergy evaluation for a better understanding of the environmental aspects associated with a crystal glass supply chain. , 2009, , .		0