Sabrina Spatari

List of Publications by Year
in descending order

70 papers	2,490 citations	218592 26 h-index	206029 48 g-index
72 all docs	72 docs citations	72 times ranked	2687 citing authors

#	Article	IF	Citations
1	Is aquaponics good for the environment?â€"evaluation of environmental impact through life cycle assessment studies on aquaponics systems. Aquaculture International, 2022, 30, 305-322.	1.1	8
2	Mechanochemistry Can Reduce Life Cycle Environmental Impacts of Manufacturing Active Pharmaceutical Ingredients. ACS Sustainable Chemistry and Engineering, 2022, 10, 1430-1439.	3.2	54
3	Repurposing anaerobic digestate for economical biomanufacturing and water recovery. Applied Microbiology and Biotechnology, 2022, , .	1.7	2
4	Life Cycle Environmental Impact of Underground Plastic Recharge Chambers in Stormwater Management. Buildings, 2022, 12, 867.	1.4	2
5	Environmental life cycle evaluation of prefabricated residential construction in China. Journal of Building Engineering, 2022, 57, 104776.	1.6	13
6	Thermochemical principles of the production of lightweight aggregates from waste coal bottom ash. Journal of the American Ceramic Society, 2021, 104, 613-634.	1.9	17
7	Continuous Calcination of Biocoke/Petcoke Blends in a Rotary Tube Furnace. ACS Sustainable Chemistry and Engineering, 2021, 9, 695-703.	3.2	7
8	Quantitative assessment of the impacts of BIM and lean on process and operations flow in construction projects. Engineering, Construction and Architectural Management, 2021, 28, 2176-2198.	1.8	16
9	Life Cycle Environmental Impacts of Precursors Used in the Supply Chain of Emerging Perovskite Solar Cells. , 2021, , .		0
10	Effects of greenhouse gas emissions timing on alternative biomass and fossil energy sources for district heating. GCB Bioenergy, 2021, 13, 1785-1799.	2.5	3
11	Bio-Based Polyisoprene Can Mitigate Climate Change and Deforestation in Expanding Rubber Production. Fermentation, 2021, 7, 204.	1.4	6
12	Monetizing environmental impact of integrated aquaponic farming compared to separate systems. Science of the Total Environment, 2021, 792, 148459.	3.9	22
13	Environmental and economic implications of stormwater management alternatives in rural development. Journal of Industrial Ecology, 2021, 25, 1076-1088.	2.8	4
14	Potential use of lightweight aggregate (LWA) produced from bottom coal ash for internal curing of concrete systems. Cement and Concrete Composites, 2020, 105, 103428.	4.6	75
15	Uncertainty in the life cycle greenhouse gas emissions and costs of HDPE pipe alternatives. Resources, Conservation and Recycling, 2020, 154, 104602.	5.3	24
16	A review of thermochemical upgrading of pyrolysis bioâ€oil: Technoâ€economic analysis, life cycle assessment, and technology readiness. GCB Bioenergy, 2020, 12, 4-18.	2.5	86
17	Environmental Sustainability of Mixed Cation Perovskite Materials in Photovoltaics Manufacturing. ACS Sustainable Chemistry and Engineering, 2020, 8, 16537-16548.	3.2	18
18	An optimization framework to identify key management strategies for improving biorefinery performance: a case study of winter barley production. Biofuels, Bioproducts and Biorefining, 2020, 14, 1296-1312.	1.9	2

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19	The Role of Biorefinery Co-Products, Market Proximity and Feedstock Environmental Footprint in Meeting Biofuel Policy Goals for Winter Barley-to-Ethanol. Energies, 2020, 13, 2236.	1.6	7
20	Environmental, exergetic and economic tradeoffs of catalytic- and fast pyrolysis-to-renewable diesel. Renewable Energy, 2020, 162, 371-380.	4.3	29
21	Technological application potential of polyethylene and polystyrene biodegradation by macro-organisms such as mealworms and wax moth larvae. Science of the Total Environment, 2020, 735, 139521.	3.9	51
22	Life cycle assessment of novel heat exchanger for dry cooling of power plants based on encapsulated phase change materials. Applied Energy, 2020, 271, 115227.	5.1	11
23	Life cycle environmental and cost evaluation of renewable diesel production. Fuel, 2020, 279, 118429.	3.4	22
24	Renewable diesel from oils and animal fat waste: implications of feedstock, technology, co-products and ILUC on life cycle GWP. Resources, Conservation and Recycling, 2020, 161, 104944.	5.3	14
25	Life Cycle Environmental and Cost Implications of Isostearic Acid Production for Pharmaceutical and Personal Care Products. ACS Sustainable Chemistry and Engineering, 2019, 7, 15247-15258.	3.2	20
26	Evaluation of environmental and cost tradeoffs of producing energy from soybeans for on-farm use. Journal of Cleaner Production, 2019, 210, 1635-1649.	4.6	5
27	Comparative evaluation of lead emissions and toxicity potential in the life cycle of lead halide perovskite photovoltaics. Energy, 2019, 166, 1089-1096.	4.5	83
28	A greenhouse gas abatement framework for investment in district heating. Applied Energy, 2018, 211, 1095-1105.	5.1	35
29	Longitudinal Study of Wastewater Greases and Their Potential for the Production of Biofuels. Energy & Fuels, 2018, 32, 1831-1842.	2.5	7
30	Effects of composition and transportation logistics on environmental, energy and cost metrics for the production of alternative cementitious binders. Journal of Cleaner Production, 2018, 185, 628-645.	4.6	59
31	Melt ceramics from coal ash: Constitutive product design using thermal and flow properties. Resources, Conservation and Recycling, 2018, 132, 168-177.	5.3	16
32	Framework for improved confidence in modeled nitrous oxide estimates for biofuel regulatory standards. Mitigation and Adaptation Strategies for Global Change, 2018, 23, 1281-1301.	1.0	8
33	Effects of recycled HDPE and nanoclay on stress cracking of HDPE by correlating J_c with slow crack growth. Polymer Engineering and Science, 2018, 58, 1471-1478.	1.5	5
34	Legacy effects of individual crops affect N₂O emissions accounting within crop rotations. GCB Bioenergy, 2018, 10, 123-136.	2.5	14
35	Strategies to achieve deep reductions in metropolitan transportation GHG emissions: the case of Philadelphia. Transportation Planning and Technology, 2018, 41, 797-815.	0.9	5
36	Renewable Rubber and Jet Fuel from Biomass: Evaluation of Greenhouse Gas Emissions and Land Use Trade-offs in Energy and Material Markets. ACS Sustainable Chemistry and Engineering, 2018, 6, 14414-14422.	3.2	19

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37	Life-Cycle Assessment of Alternative Pyrolysis-Based Transport Fuels: Implications of Upgrading Technology, Scale, and Hydrogen Requirement. ACS Sustainable Chemistry and Engineering, 2018, 6, 10001-10010.	3.2	17
38	Economic and life cycle assessments of biomass utilization for bioenergy products. Biofuels, Bioproducts and Biorefining, 2017, 11, 633-647.	1.9	55
39	Fuels and Chemicals from Equine-Waste-Derived Tail Gas Reactive Pyrolysis Oil: Technoeconomic Analysis, Environmental and Exergetic Life Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2017, 5, 8804-8814.	3.2	25
40	Tradeâ€offs across productivity, GHG intensity, and pollutant loads from secondâ€generation sorghum bioenergy. GCB Bioenergy, 2017, 9, 1764-1779.	2.5	13
41	Life Cycle Economic and Environmental Implications of Pristine High Density Polyethylene and Alternative Materials in Drainage Pipe Applications. Journal of Polymers and the Environment, 2017, 25, 925-947.	2.4	24
42	Fracture characterization of recycled high density polyethylene/nanoclay composites using the essential work of fracture concept. Polymer Engineering and Science, 2016, 56, 222-232.	1.5	8
43	Estimating Materials Stocked by Landâ€Use Type in Historic Urban Buildings Using Spatioâ€Temporal Analytical Tools. Journal of Industrial Ecology, 2016, 20, 1025-1037.	2.8	41
44	Life-Cycle Assessment of Biodiesel Produced from Grease Trap Waste. Environmental Science & Technology, 2016, 50, 2718-2726.	4.6	55
45	Time effects of climate change mitigation strategies for second generation biofuels and co-products with temporary carbon storage. Journal of Cleaner Production, 2016, 112, 2642-2653.	4.6	18
46	A life cycle perspective on land use and project economics of electricity from wind and anaerobic digestion. Energy Policy, 2016, 89, 52-63.	4.2	14
47	Integrating biorefinery and farm biogeochemical cycles offsets fossil energy and mitigates soil carbon losses. , 2015, 25, 1142-1156.		15
48	Exergy Based Assessment of the Production and Conversion of Switchgrass, Equine Waste, and Forest Residue to Bio-Oil Using Fast Pyrolysis. Industrial & Engineering Chemistry Research, 2015, 54, 529-539.	1.8	23
49	Fracture characterization of pristine/post-consumer HDPE blends using the essential work of fracture (EWF) concept and extended finite element method (XFEM). Engineering Fracture Mechanics, 2015, 139, 1-17.	2.0	10
50	Uncertainties in Life Cycle Greenhouse Gas Emissions from Advanced Biomass Feedstock Logistics Supply Chains in Kansas. Energies, 2014, 7, 7125-7146.	1.6	37
51	Asset management in civil engineering. Structure and Infrastructure Engineering, 2013, 9, 295-296.	2.0	6
52	Life Cycle Environmental and Economic Tradeoffs of Using Fast Pyrolysis Products for Power Generation. Energy & Fuels, 2013, 27, 2578-2587.	2.5	48
53	Cost and greenhouse gas emission tradeoffs of alternative uses of lignin for second generation ethanol. Environmental Research Letters, 2013, 8, 025021.	2.2	40
54	Construction waste management decision making process: identification, framework and detailed urban C&D waste profile analysis. , 2012, , .		3

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55	Mitigation Opportunities for Life-Cycle Greenhouse Gas Emissions during Feedstock Production across Heterogeneous Landscapes. , 2012, , 203-219.		19
56	Densified Biomass Can Cost-Effectively Mitigate Greenhouse Gas Emissions and Address Energy Security in Thermal Applications. Environmental Science & Technology, 2012, 46, 1270-1277.	4.6	31
57	Using Life Cycle Assessment to Evaluate Green and Grey Combined Sewer Overflow Control Strategies. Journal of Industrial Ecology, 2012, 16, 901-913.	2.8	96
58	Life cycle implications of urban green infrastructure. Environmental Pollution, 2011, 159, 2174-2179.	3.7	145
59	The Place of Planning in Sustainability Metrics for Public Works: Lessons From the Philadelphia Region. Public Works Management Policy, 2011, 16, 20-39.	0.7	6
60	Life cycle evaluation of emerging lignocellulosic ethanol conversion technologies. Bioresource Technology, 2010, 101, 654-667.	4.8	217
61	Characterizing Model Uncertainties in the Life Cycle of Lignocellulose-Based Ethanol Fuels. Environmental Science & Technology, 2010, 44, 8773-8780.	4.6	58
62	Land Use Greenhouse Gas Emissions from Conventional Oil Production and Oil Sands. Environmental Science & Technology, 2010, 44, 8766-8772.	4.6	76
63	The contribution of enzymes and process chemicals to the life cycle of ethanol. Environmental Research Letters, 2009, 4, 014001.	2.2	113
64	Energy and Greenhouse Gas Emissions Trade-Offs of Recycled Concrete Aggregate Use in Nonstructural Concrete: A North American Case Study. Journal of Infrastructure Systems, 2009, 15, 361-370.	1.0	12
65	The Multilevel Cycle of Anthropogenic Zinc. Journal of Industrial Ecology, 2005, 9, 67-90.	2.8	107
66	Decision support for sustainable development using a Canadian economic inputâ€“output life cycle assessment model. Canadian Journal of Civil Engineering, 2005, 32, 16-29.	0.7	14
67	Life Cycle Assessment of Switchgrass- and Corn Stover-Derived Ethanol-Fueled Automobiles. Environmental Science & Technology, 2005, 39, 9750-9758.	4.6	256
68	The contemporary copper cycle of Asia. Journal of Material Cycles and Waste Management, 2003, 5, 143-156.	1.6	34
69	Using GaBi 3 to perform life cycle assessment and life cycle engineering. International Journal of Life Cycle Assessment, 2001, 6, 81.	2.2	49
70	Application of life cycle inventory analysis to fuel tank system design. International Journal of Life Cycle Assessment, 1998, 3, 18-28.	2.2	35