Lisa M Colosi

List of Publications by Year
in descending order

56 papers	2,955 citations	257101 24 h-index	168136 53 g-index
56 all docs	56 docs citations	56 times ranked	3430 citing authors

#	Article	IF	Citations
1	Environmental Life Cycle Comparison of Algae to Other Bioenergy Feedstocks. Environmental Science & Technology, 2010, 44, 1813-1819.	4.6	944
2	Pilot-scale data provide enhanced estimates of the life cycle energy and emissions profile of algae biofuels produced via hydrothermal liquefaction. Bioresource Technology, 2013, 148, 163-171.	4.8	215
3	Environmental Impacts of Algae-Derived Biodiesel and Bioelectricity for Transportation. Environmental Science & Technology, 2011, 45, 7554-7560.	4.6	192
4	Slow pyrolysis as a platform for negative emissions technology: An integration of machine learning models, life cycle assessment, and economic analysis. Energy Conversion and Management, 2020, 223, 113258.	4.4	119
5	Comparison of algae cultivation methods for bioenergy production using a combined life cycle assessment and life cycle costing approach. Bioresource Technology, 2012, 126, 298-306.	4.8	111
6	Transformation and Removal of Tetrabromobisphenol A from Water in the Presence of Natural Organic Matter via Laccase-Catalyzed Reactions: Reaction Rates, Products, and Pathways. Environmental Science & Technology, 2013, 47, 1001-1008.	4.6	107
7	Algae biodiesel has potential despite inconclusive results to date. Bioresource Technology, 2012, 104, 803-806.	4.8	104
8	Evaluating the Sustainability of Ceramic Filters for Point-of-Use Drinking Water Treatment. Environmental Science & Technology, 2013, 47, 11206-11213.	4.6	82
9	Evaluating Removal of Steroid Estrogens by a Model Alga as a Possible Sustainability Benefit of Hypothetical Integrated Algae Cultivation and Wastewater Treatment Systems. ACS Sustainable Chemistry and Engineering, 2014, 2, 2544-2553.	3.2	80
10	Is hydrothermal treatment coupled with carbon capture and storage an energy-producing negative emissions technology?. Energy Conversion and Management, 2020, 203, 112252.	4.4	66
11	Life Cycle Assessment of Biofuels from Algae Hydrothermal Liquefaction: The Upstream and Downstream Factors Affecting Regulatory Compliance. Energy & Fuels, 2015, 29, 1653-1661.	2.5	58
12	Attenuation, transport, and management of estrogens: A review. Chemosphere, 2019, 230, 462-478.	4.2	54
13	Environmental and economic assessment of integrated systems for dairy manure treatment coupled with algae bioenergy production. Bioresource Technology, 2013, 130, 486-494.	4.8	51
14	Quantitative Structureâˆ'Activity Relationship Based Quantification of the Impacts of Enzymeâˆ'Substrate Binding on Rates of Peroxidase-Mediated Reactions of Estrogenic Phenolic Chemicals. Journal of the American Chemical Society, 2006, 128, 4041-4047.	6.6	47
15	Peroxidaseâ€mediated degradation of perfluorooctanoic acid. Environmental Toxicology and Chemistry, 2009, 28, 264-271.	2.2	47
16	Development of Wastewater Pooled Surveillance of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) from Congregate Living Settings. Applied and Environmental Microbiology, 2021, 87, e0043321.	1.4	47
17	Peroxidase-Mediated Removal of a Polychlorinated Biphenyl Using Natural Organic Matter as the Sole Cosubstrate. Environmental Science & Technology, 2007, 41, 891-896.	4.6	42
18	Fate and transport of atorvastatin and simvastatin drugs during conventional wastewater treatment. Chemosphere, 2012, 88, 1184-1189.	4.2	42

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19	Practical ambiguities during calculation of energy ratios and their impacts on life cycle assessment calculations. Energy Policy, 2013, 57, 630-633.	4.2	38
20	The levelized cost of negative CO2 emissions from thermochemical conversion of biomass coupled with carbon capture and storage. Energy Conversion and Management, 2021, 237, 114115.	4.4	38
21	Risk Analysis of Biofuels Industry for Aviation with Scenarioâ€Based Expert Elicitation. Systems Engineering, 2015, 18, 178-191.	1.6	36
22	Development and Application of a Model to Estimate Wastewater Treatment Plant Prescription Pharmaceutical Influent Loadings and Concentrations. Bulletin of Environmental Contamination and Toxicology, 2010, 84, 507-512.	1.3	34
23	Is aquatic bioenergy with carbon capture and storage a sustainable negative emission technology? Insights from a spatially explicit environmental life-cycle assessment. Energy Conversion and Management, 2020, 224, 113300.	4.4	31
24	Generation of Branched-Chain Fatty Acids through Lipoate-Dependent Metabolism Facilitates Intracellular Growth of <i>Listeria monocytogenes</i>. Journal of Bacteriology, 2009, 191, 2187-2196.	1.0	27
25	The case for estimating carbon return on investment (CROI) for CCUS platforms. Applied Energy, 2021, 285, 116394.	5.1	27
26	Tracking Klebsiella pneumoniae carbapenemase gene as an indicator of antimicrobial resistance dissemination from a hospital to surface water via a municipal wastewater treatment plant. Water Research, 2022, 213, 118151.	5.3	25
27	Peroxidase-mediated removal of endocrine disrupting compound mixtures from water. Chemosphere, 2011, 85, 553-557.	4.2	23
28	Reevaluation of the global warming impacts of algae-derived biofuels to account for possible contributions of nitrous oxide. Bioresource Technology, 2016, 218, 196-201.	4.8	22
29	Anaerobic Digestion of Algae Biomass to Produce Energy during Wastewater Treatment. Water Environment Research, 2016, 88, 29-39.	1.3	18
30	Evaluating the Water Quality Impacts of Hydrothermal Liquefaction Assessment of Carbon, Nitrogen, and Energy Recovery. Bioresource Technology Reports, 2018, 2, 115-120.	1.5	18
31	Evaluating the efficacy of an algae-based treatment to mitigate elicitation of antibiotic resistance. Chemosphere, 2019, 237, 124421.	4.2	18
32	Sorption of Statin Pharmaceuticals to Wastewater-Treatment Biosolids, Terrestrial Soils, and Freshwater Sediment. Journal of Environmental Engineering, ASCE, 2010, 136, 256-264.	0.7	15
33	Will algae produce the green? Using published life cycle assessments as a starting point for economic evaluation of future algae-to-energy systems. Biofuels, 2012, 3, 129-142.	1.4	14
34	Effects of sorption kinetics on the fate and transport of pharmaceuticals in estuaries. Chemosphere, 2013, 92, 1001-1009.	4.2	14
35	Assessing the energy and environmental performance of algae-mediated tertiary treatment of estrogenic compounds. Environmental Sciences: Processes and Impacts, 2015, 17, 421-428.	1.7	13
36	QSAR-assisted design of an environmental catalyst for enhanced estrogen remediation. Chemosphere, 2010, 81, 897-903.	4.2	12

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37	Economic evaluation of algae biodiesel based on meta-analyses. International Journal of Sustainable Energy, 2017, 36, 682-694.	1.3	12
38	Predicting EDC concentrations in a river mixing zone. Chemosphere, 2012, 87, 1111-1118.	4.2	10
39	Building-Level Wastewater Surveillance for SARS-CoV-2 in Occupied University Dormitories as an Outbreak Forecasting Tool: One Year Case Study. ACS ES&T Water, 2022, 2, 2094-2104.	2.3	10
40	Putting algaeâ€™s promise into perspective. Biofuels, 2010, 1, 805-808.	1.4	9
41	Response to Comment on â€œEnvironmental Life Cycle Comparison of Algae to Other Bioenergy Feedstocksâ€• Environmental Science & Technology, 2011, 45, 834-834.	4.6	9
42	Life cycle analysis of power cycle configurations in bioenergy with carbon capture and storage. Procedia CIRP, 2019, 80, 340-345.	1.0	9
43	Evaluating the Impacts of ACP Management on the Energy Performance of Hydrothermal Liquefaction via Nutrient Recovery. Energies, 2019, 12, 729.	1.6	8
44	Waterâ€“energy sustainability synergies and health benefits as means to motivate potable reuse of coalbed methane-produced waters. Ambio, 2019, 48, 752-768.	2.8	8
45	Accounting for the role of transport and storage infrastructure costs in carbon negative bioenergy deployment. , 2021, 11, 144-164.		8
46	Understanding Ligninase-Mediated Reactions of Endocrine Disrupting Chemicals in Water: Reaction Rates and Quantitative Structureâ€“Activity Relationships. Environmental Science & Technology, 2011, 45, 5966-5972.	4.6	7
47	Validation of a twoâ€parameter quantitative structureâ€“activity relationship as a legitimate tool for rational reâ€design of horseradish peroxidase. Biotechnology and Bioengineering, 2007, 98, 295-299.	1.7	6
48	Response to Comment on â€œEnvironmental Life Cycle Comparison of Algae to Other Bioenergy Feedstocksâ€• Environmental Science & Technology, 2010, 44, 3643-3643.	4.6	5
49	Molecular similarity analysis as tool to prioritize research among emerging contaminants in the environment. Separation and Purification Technology, 2012, 84, 22-28.	3.9	4
50	Evaluation of a Prediction Model for Influent Pharmaceutical Concentrations. Journal of Environmental Engineering, ASCE, 2013, 139, 1017-1021.	0.7	4
51	Algae-mediated treatment offers apparent removal of a model antibiotic resistance gene. Algal Research, 2021, 60, 102540.	2.4	4
52	Capture or curtail: The potential and performance of direct air capture powered through excess renewable electricity. Energy Conversion and Management: X, 2022, 15, 100230.	0.9	4
53	Life Cycle Assessment of Algae-to-Energy Systems. , 2013, , 759-778.		2
54	What are we missing by focusing on algae biodiesel?. Biofuels, 2013, 4, 591-593.	1.4	2

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55	Potable Reuse of Coalbed Methane-Produced Waters in Developing Country Contextsâ€"Could the Benefits Outweigh the Costs to Facilitate Coal Transitions?. Energies, 2020, 13, 154.	1.6	2
56	Assessment of Estrogenicity and Estrogenicity Drivers in a WWTP Mixing Zone. , 2010, , .		1