

# Marianna Garfi

## List of Publications by Year in descending order

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52  
papers

3,023  
citations

117453

34  
h-index

168136

53  
g-index

53  
all docs

53  
docs citations

53  
times ranked

3173  
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of resource recovery from municipal wastewater treatment plants " market supply potentials, technologies and bottlenecks. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 877-910.	1.2	228
2	Life Cycle Assessment of wastewater treatment systems for small communities: Activated sludge, constructed wetlands and high rate algal ponds. <i>Journal of Cleaner Production</i> , 2017, 161, 211-219.	4.6	212
3	Life cycle assessment of high rate algal ponds for wastewater treatment and resource recovery. <i>Science of the Total Environment</i> , 2018, 622-623, 1118-1130.	3.9	148
4	Household anaerobic digesters for biogas production in Latin America: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 599-614.	8.2	134
5	Biogas production in low-cost household digesters at the Peruvian Andes. <i>Biomass and Bioenergy</i> , 2011, 35, 1668-1674.	2.9	122
6	Assessing the agricultural reuse of the digestate from microalgae anaerobic digestion and co-digestion with sewage sludge. <i>Science of the Total Environment</i> , 2017, 586, 1-9.	3.9	103
7	Life cycle assessment of constructed wetland systems for wastewater treatment coupled with microbial fuel cells. <i>Science of the Total Environment</i> , 2017, 584-585, 355-362.	3.9	89
8	Natural pigments from microalgae grown in industrial wastewater. <i>Bioresource Technology</i> , 2020, 303, 122894.	4.8	87
9	Multi-criteria analysis for improving strategic environmental assessment of water programmes. A case study in semi-arid region of Brazil. <i>Journal of Environmental Management</i> , 2011, 92, 665-675.	3.8	85
10	Life cycle assessment of drinking water: Comparing conventional water treatment, reverse osmosis and mineral water in glass and plastic bottles. <i>Journal of Cleaner Production</i> , 2016, 137, 997-1003.	4.6	82
11	Integrating microalgae tertiary treatment into activated sludge systems for energy and nutrients recovery from wastewater. <i>Bioresource Technology</i> , 2018, 247, 513-519.	4.8	81
12	Agricultural reuse of the digestate from low-cost tubular digesters in rural Andean communities. <i>Waste Management</i> , 2011, 31, 2584-2589.	3.7	80
13	Technical, economic and environmental assessment of household biogas digesters for rural communities. <i>Renewable Energy</i> , 2014, 62, 313-318.	4.3	77
14	Anaerobic co-digestion of microalgal biomass and wheat straw with and without thermo-alkaline pretreatment. <i>Bioresource Technology</i> , 2017, 237, 89-98.	4.8	76
15	Constructed wetlands for winery wastewater treatment: A comparative Life Cycle Assessment. <i>Science of the Total Environment</i> , 2019, 659, 1567-1576.	3.9	74
16	Vertical redox profiles in treatment wetlands as function of hydraulic regime and macrophytes presence: Surveying the optimal scenario for microbial fuel cell implementation. <i>Science of the Total Environment</i> , 2014, 470-471, 754-758.	3.9	72
17	Fate of priority pharmaceuticals and their main metabolites and transformation products in microalgae-based wastewater treatment systems. <i>Journal of Hazardous Materials</i> , 2020, 390, 121771.	6.5	72
18	Evaluating benefits of low-cost household digesters for rural Andean communities. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 575-581.	8.2	71

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19	Three-stage hybrid constructed wetland system for wastewater treatment and reuse in warm climate regions. <i>Ecological Engineering</i> , 2013, 61, 43-49.	1.6	71
20	The effect of primary treatment of wastewater in high rate algal pond systems: Biomass and bioenergy recovery. <i>Bioresource Technology</i> , 2019, 280, 27-36.	4.8	70
21	Evaluating and comparing three community small-scale wind electrification projects. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5379-5390.	8.2	63
22	Enhancement of microalgae anaerobic digestion by thermo-alkaline pretreatment with lime (CaO). <i>Algal Research</i> , 2017, 24, 199-206.	2.4	63
23	Co-digestion of microalgae and primary sludge: Effect on biogas production and microcontaminants removal. <i>Science of the Total Environment</i> , 2019, 660, 974-981.	3.9	60
24	Contaminants removal and bacterial activity enhancement along the flow path of constructed wetland microbial fuel cells. <i>Science of the Total Environment</i> , 2019, 652, 1195-1208.	3.9	58
25	Recent Achievements in the Production of Biogas from Microalgae. <i>Waste and Biomass Valorization</i> , 2017, 8, 129-139.	1.8	56
26	Strategies to Optimize Microalgae Conversion to Biogas: Co-Digestion, Pretreatment and Hydraulic Retention Time. <i>Molecules</i> , 2018, 23, 2096.	1.7	51
27	Evaluating environmental benefits of low-cost biogas digesters in small-scale farms in Colombia: A life cycle assessment. <i>Bioresource Technology</i> , 2019, 274, 541-548.	4.8	51
28	Natural Pigments and Biogas Recovery from Microalgae Grown in Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10691-10701.	3.2	51
29	Codigestion of cow and guinea pig manure in low-cost tubular digesters at high altitude. <i>Ecological Engineering</i> , 2011, 37, 2066-2070.	1.6	48
30	Towards energy neutral microalgae-based wastewater treatment plants. <i>Algal Research</i> , 2017, 28, 235-243.	2.4	47
31	Long-term assessment of best cathode position to maximise microbial fuel cell performance in horizontal subsurface flow constructed wetlands. <i>Science of the Total Environment</i> , 2016, 563-564, 448-455.	3.9	46
32	Pretreatment and co-digestion of microalgae, sludge and fat oil and grease (FOG) from microalgae-based wastewater treatment plants. <i>Bioresource Technology</i> , 2020, 298, 122563.	4.8	46
33	Effect of climatic conditions, season and wastewater quality on contaminant removal efficiency of two experimental constructed wetlands in different regions of Spain. <i>Science of the Total Environment</i> , 2012, 437, 61-67.	3.9	42
34	Psychrophilic anaerobic digestion of guinea pig manure in low-cost tubular digesters at high altitude. <i>Bioresource Technology</i> , 2011, 102, 6356-6359.	4.8	41
35	A multi-criteria decision support tool for the assessment of household biogas digester programmes in rural areas. A case study in Peru. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 95, 74-83.	8.2	40
36	Influence of hydraulic loading rate, simulated storm events and seasonality on the treatment performance of an experimental three-stage hybrid constructed wetland system. <i>Ecological Engineering</i> , 2016, 87, 324-332.	1.6	34

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37	Decision-making criteria and indicators for water and sanitation projects in developing countries. <i>Water Science and Technology</i> , 2011, 64, 83-101.	1.2	27
38	Constructed wetlands operated as bioelectrochemical systems for the removal of organic micropollutants. <i>Chemosphere</i> , 2021, 271, 129593.	4.2	27
39	Carbon footprint of constructed wetlands for winery wastewater treatment. <i>Ecological Engineering</i> , 2020, 156, 105959.	1.6	17
40	Health and environmental impacts of drinking water choices in Barcelona, Spain: A modelling study. <i>Science of the Total Environment</i> , 2021, 795, 148884.	3.9	17
41	Low-cost anaerobic digester to promote the circular bioeconomy in the non-centrifugal cane sugar sector: A life cycle assessment. <i>Bioresource Technology</i> , 2021, 326, 124783.	4.8	16
42	Life Cycle Assessment of the Mesophilic, Thermophilic, and Temperature-Phased Anaerobic Digestion of Sewage Sludge. <i>Water (Switzerland)</i> , 2020, 12, 3140.	1.2	14
43	Microalgae: a sustainable adsorbent with high potential for upconcentration of indium from liquid process and waste streams. <i>Green Chemistry</i> , 2020, 22, 1985-1995.	4.6	14
44	Behavior of UV Filters, UV Blockers and Pharmaceuticals in High Rate Algal Ponds Treating Urban Wastewater. <i>Water (Switzerland)</i> , 2020, 12, 2658.	1.2	12
45	Reliability and economic feasibility of online monitoring of constructed wetlands performance. <i>Desalination and Water Treatment</i> , 2014, 52, 5848-5855.	1.0	10
46	Promotion of full-scale constructed wetlands in the wine sector: Comparison of greenhouse gas emissions with activated sludge systems. <i>Science of the Total Environment</i> , 2021, 770, 145326.	3.9	10
47	Benefits and risks of agricultural reuse of digestates from plastic tubular digesters in Colombia. <i>Waste Management</i> , 2021, 135, 220-228.	3.7	7
48	Cooperation and Human Development Projects as Bachelor, Master and PhD Thesis: Evaluating an Internship Program. <i>Procedia, Social and Behavioral Sciences</i> , 2015, 196, 63-68.	0.5	6
49	A robust multicriteria analysis for the post-treatment of digestate from low-tech digesters. Boosting the circular bioeconomy of small-scale farms in Colombia. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112638.	8.2	6
50	Reusing industrial by-products to enhance phosphorus removal in waste stabilization ponds: laboratory approach. <i>Desalination and Water Treatment</i> , 2016, 57, 1857-1864.	1.0	4
51	Biological Treatment of Organic Waste in Wastewater – Towards a Circular and Bio-Based Economy. <i>Water (Switzerland)</i> , 2022, 14, 360.	1.2	3
52	Biotechnology: a highly efficient tool for the current environmental challenges. <i>Science of the Total Environment</i> , 2018, 616-617, 1664-1667.	3.9	1