

Jean-Philippe Steyer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

7,389
citations

43
h-index

83
g-index

139
ext. papers

8,400
ext. citations

7.4
avg, IF

6.1
L-index

#	Paper	IF	Citations
134	Life-cycle assessment of biodiesel production from microalgae. <i>Environmental Science & Technology</i> , 2009 , 43, 6475-81	10.3	1110
133	Hydrogen production from agricultural waste by dark fermentation: A review. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10660-10673	6.7	562
132	Dynamical model development and parameter identification for an anaerobic wastewater treatment process. <i>Biotechnology and Bioengineering</i> , 2001 , 75, 424-38	4.9	383
131	Lignocellulosic Materials Into Biohydrogen and Biomethane: Impact of Structural Features and Pretreatment. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 260-322	11.1	265
130	Total solids content drives high solid anaerobic digestion via mass transfer limitation. <i>Bioresource Technology</i> , 2012 , 111, 55-61	11	264
129	Temperature effect on microalgae: a crucial factor for outdoor production. <i>Reviews in Environmental Science and Biotechnology</i> , 2013 , 12, 153-164	13.9	242
128	Impact of microalgae characteristics on their conversion to biofuel. Part II: Focus on biomethane production. <i>Biofuels, Bioproducts and Biorefining</i> , 2012 , 6, 205-218	5.3	161
127	Predictive models of biohydrogen and biomethane production based on the compositional and structural features of lignocellulosic materials. <i>Environmental Science & Technology</i> , 2012 , 46, 12217-25	19.3	155
126	Food waste valorization via anaerobic processes: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2016 , 15, 499-547	13.9	144
125	Inhibition of fermentative hydrogen production by lignocellulose-derived compounds in mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3150-3159	6.7	143
124	Nonlinear adaptive control for bioreactors with unknown kinetics. <i>Automatica</i> , 2004 , 40, 1379-1385	5.7	130
123	Microbial ecology of fermentative hydrogen producing bioprocesses: useful insights for driving the ecosystem function. <i>FEMS Microbiology Reviews</i> , 2017 , 41, 158-181	15.1	127
122	Integrating microalgae production with anaerobic digestion: a biorefinery approach. <i>Biofuels, Bioproducts and Biorefining</i> , 2014 , 8, 516-529	5.3	108
121	Enhancement of methane production from sunflower oil cakes by dilute acid pretreatment. <i>Applied Energy</i> , 2013 , 102, 1105-1113	10.7	108
120	Biodiesel from microalgae – Life cycle assessment and recommendations for potential improvements. <i>Renewable Energy</i> , 2014 , 71, 525-533	8.1	105
119	Total solids content: a key parameter of metabolic pathways in dry anaerobic digestion. <i>Biotechnology for Biofuels</i> , 2013 , 6, 164	7.8	99
118	Nutritional stress induces exchange of cell material and energetic coupling between bacterial species. <i>Nature Communications</i> , 2015 , 6, 6283	17.4	95

117	Coupling dark fermentation and microbial electrolysis to enhance bio-hydrogen production from agro-industrial wastewaters and by-products in a bio-refinery framework. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1609-1621	6.7	86
116	Instrumentation and control of anaerobic digestion processes: a review and some research challenges. <i>Reviews in Environmental Science and Biotechnology</i> , 2015 , 14, 615-648	13.9	84
115	Advanced control of anaerobic digestion processes through disturbances monitoring. <i>Water Research</i> , 1999 , 33, 2059-2068	12.5	83
114	Life cycle assessment of biomethane from offshore-cultivated seaweed. <i>Biofuels, Bioproducts and Biorefining</i> , 2012 , 6, 387-404	5.3	79
113	Biological pretreatments of biomass for improving biogas production: an overview from lab scale to full-scale. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 90, 583-604	16.2	73
112	A new dynamic model for bioavailability and cometabolism of micropollutants during anaerobic digestion. <i>Water Research</i> , 2011 , 45, 4511-21	12.5	72
111	Sub-dominant bacteria as keystone species in microbial communities producing bio-hydrogen. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4975-4985	6.7	70
110	Effect of enzyme addition on fermentative hydrogen production from wheat straw. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10639-10647	6.7	70
109	Dry anaerobic digestion of food waste and cardboard at different substrate loads, solid contents and co-digestion proportions. <i>Bioresource Technology</i> , 2017 , 233, 166-175	11	69
108	Recommendations for Life Cycle Assessment of algal fuels. <i>Applied Energy</i> , 2015 , 154, 1089-1102	10.7	66
107	Prediction of anaerobic biodegradability and bioaccessibility of municipal sludge by coupling sequential extractions with fluorescence spectroscopy: towards ADM1 variables characterization. <i>Water Research</i> , 2014 , 50, 359-72	12.5	65
106	GISCOD: general integrated solid waste co-digestion model. <i>Water Research</i> , 2009 , 43, 2717-27	12.5	64
105	Specific inhibition of biohydrogen-producing <i>Clostridium</i> sp. after dilute-acid pretreatment of sunflower stalks. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12273-12282	6.7	63
104	Modified ADM1 disintegration/hydrolysis structures for modeling batch thermophilic anaerobic digestion of thermally pretreated waste activated sludge. <i>Water Research</i> , 2009 , 43, 3479-92	12.5	62
103	New mechanistic model to simulate microalgae growth. <i>Algal Research</i> , 2015 , 12, 350-358	5	59
102	A statistical comparison of protein and carbohydrate characterisation methodology applied on sewage sludge samples. <i>Water Research</i> , 2013 , 47, 1751-62	12.5	56
101	Predictive and explicative models of fermentative hydrogen production from solid organic waste: Role of butyrate and lactate pathways. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7476-7485	6.7	56
100	Towards a generalized physicochemical framework. <i>Water Science and Technology</i> , 2012 , 66, 1147-61	2.2	56

99	Modeling microbial diversity in anaerobic digestion through an extended ADM1 model. <i>Water Research</i> , 2009 , 43, 2787-800	12.5	56
98	Microalgae production in wastewater treatment systems, anaerobic digestion and modelling using ADM1. <i>Algal Research</i> , 2015 , 10, 55-63	5	55
97	A state of the art of metabolic networks of unicellular microalgae and cyanobacteria for biofuel production. <i>Metabolic Engineering</i> , 2015 , 30, 49-60	9.7	49
96	Life cycle assessment of hydrogen production from biogas reforming. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6064-6075	6.7	46
95	A fuzzy logic based diagnosis system for the on-line supervision of an anaerobic digester pilot-plant. <i>Biochemical Engineering Journal</i> , 1999 , 3, 171-183	4.2	45
94	DRUM: a new framework for metabolic modeling under non-balanced growth. Application to the carbon metabolism of unicellular microalgae. <i>PLoS ONE</i> , 2014 , 9, e104499	3.7	45
93	Screening Escherichia coli, Enterococcus faecalis, and Clostridium perfringens as indicator organisms in evaluating pathogen-reducing capacity in biogas plants. <i>Microbial Ecology</i> , 2009 , 58, 221-304	4.4	44
92	A new organic matter fractionation methodology for organic wastes: Bioaccessibility and complexity characterization for treatment optimization. <i>Bioresource Technology</i> , 2015 , 194, 344-53	11	43
91	Effects of grinding processes on anaerobic digestion of wheat straw. <i>Industrial Crops and Products</i> , 2015 , 74, 450-456	5.9	40
90	Microalgae and cyanobacteria modeling in water resource recovery facilities: A critical review. <i>Water Research X</i> , 2019 , 2, 100024	8.1	39
89	Kinetic modelling of anaerobic hydrolysis of solid wastes, including disintegration processes. <i>Waste Management</i> , 2015 , 35, 96-104	8.6	38
88	Solid-phase fluorescence spectroscopy to characterize organic wastes. <i>Waste Management</i> , 2011 , 31, 1916-23	8.6	38
87	Comprehensive modeling of methanogenic biofilms in fluidized bed systems: Mass transfer limitations and multisubstrate aspects. <i>Biotechnology and Bioengineering</i> , 1995 , 48, 725-36	4.9	37
86	Mathematical modeling of unicellular microalgae and cyanobacteria metabolism for biofuel production. <i>Current Opinion in Biotechnology</i> , 2015 , 33, 198-205	11.4	36
85	The reuse of reclaimed water for irrigation around the Mediterranean Rim: a step towards a more virtuous cycle?. <i>Regional Environmental Change</i> , 2018 , 18, 693-705	4.3	36
84	Changes in hydrogenase genetic diversity and proteomic patterns in mixed-culture dark fermentation of mono-, di- and tri-saccharides. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11654-11665	6.7	36
83	Two-stage alkaline-enzymatic pretreatments to enhance biohydrogen production from sunflower stalks. <i>Environmental Science & Technology</i> , 2013 , 47, 12591-9	10.3	34
82	Kinetic study of dry anaerobic co-digestion of food waste and cardboard for methane production. <i>Waste Management</i> , 2017 , 69, 470-479	8.6	34

81	New methods for impact assessment of biotic-resource depletion in life cycle assessment of fisheries: theory and application. <i>Journal of Cleaner Production</i> , 2014 , 73, 63-71	10.3	34
80	Robust Control of Volatile Fatty Acids in Anaerobic Digestion Processes. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7715-7720	3.9	34
79	A pseudo-stoichiometric dynamic model of anaerobic hydrogen production from molasses. <i>Water Research</i> , 2008 , 42, 2539-50	12.5	33
78	Distribution of Polycyclic Aromatic Hydrocarbons (PAHs) in sludge organic matter pools as a driving force of their fate during anaerobic digestion. <i>Waste Management</i> , 2016 , 48, 389-396	8.6	32
77	Functional versus phylogenetic fingerprint analyses for monitoring hydrogen-producing bacterial populations in dark fermentation cultures. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3870-3879	6.7	31
76	Competition between planktonic and fixed microorganisms during the start-up of methanogenic biofilm reactors. <i>Water Research</i> , 2008 , 42, 792-800	12.5	30
75	Experimental determination by principal component analysis of a reaction pathway of biohydrogen production by anaerobic fermentation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 1968-1975	3.7	30
74	Importance of ecological interactions during wastewater treatment using High Rate Algal Ponds under different temperate climates. <i>Algal Research</i> , 2019 , 40, 101508	5	29
73	High-solids anaerobic digestion model for homogenized reactors. <i>Water Research</i> , 2018 , 142, 501-511	12.5	29
72	Combining chemical sequential extractions with 3D fluorescence spectroscopy to characterize sludge organic matter. <i>Waste Management</i> , 2014 , 34, 2572-80	8.6	29
71	Methane production and fertilizing value of organic waste: Organic matter characterization for a better prediction of valorization pathways. <i>Bioresource Technology</i> , 2017 , 241, 1012-1021	11	27
70	Development and application of a functional CE-SSCP fingerprinting method based on [FeFe]-hydrogenase genes for monitoring hydrogen-producing <i>Clostridium</i> in mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13158-13167	6.7	27
69	Methanosarcina plays a main role during methanogenesis of high-solids food waste and cardboard. <i>Waste Management</i> , 2018 , 76, 423-430	8.6	26
68	On-line diagnosis and uncertainty management using evidence theory—experimental illustration to anaerobic digestion processes. <i>Journal of Process Control</i> , 2004 , 14, 747-763	3.9	26
67	Development of membrane inlet mass spectrometry for examination of fermentation processes. <i>Talanta</i> , 2010 , 83, 482-92	6.2	25
66	Monitoring and control of the biogas process based on propionate concentration using online VFA measurement. <i>Water Science and Technology</i> , 2008 , 57, 661-6	2.2	25
65	A vision of European biogas sector development towards 2030: Trends and challenges. <i>Journal of Cleaner Production</i> , 2021 , 287, 125065	10.3	25
64	Microalgae-bacteria consortia in high-rate ponds for treating urban wastewater: Elucidating the key state indicators under dynamic conditions. <i>Journal of Environmental Management</i> , 2020 , 261, 110244	7.9	24

63	Three-reaction model for the anaerobic digestion of microalgae. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 415-25	4.9	24
62	Optimal control of hydrogen production in a continuous anaerobic fermentation bioreactor. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10710-10718	6.7	24
61	Impact of microalgae characteristics on their conversion to biofuel. Part I: Focus on cultivation and biofuel production. <i>Biofuels, Bioproducts and Biorefining</i> , 2012 , 6, 105-113	5.3	23
60	Application of optimized alkaline pretreatment for enhancing the anaerobic digestion of different sunflower stalks varieties. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2155-62	2.6	23
59	How to take time into account in the inventory step: a selective introduction based on sensitivity analysis. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 320-330	4.6	22
58	Nonparametric identification and adaptive control of an anaerobic fluidized bed digester. <i>Control Engineering Practice</i> , 2000 , 8, 367-376	3.9	22
57	Online estimation of VFA, alkalinity and bicarbonate concentrations by electrical conductivity measurement during anaerobic fermentation. <i>Water Science and Technology</i> , 2012 , 65, 1281-9	2.2	21
56	Pattern analysis techniques to process fermentation curves: application to discrimination of enological alcoholic fermentations. <i>Biotechnology and Bioengineering</i> , 2002 , 79, 804-15	4.9	21
55	Coupling algal biomass production and anaerobic digestion: Production assessment of some native temperate and tropical microalgae. <i>Biomass and Bioenergy</i> , 2014 , 70, 564-569	5.3	20
54	On the derivation of a simple dynamic model of anaerobic digestion including the evolution of hydrogen. <i>Water Research</i> , 2018 , 134, 209-225	12.5	18
53	Fast characterization of solid organic waste content with near infrared spectroscopy in anaerobic digestion. <i>Waste Management</i> , 2017 , 59, 140-148	8.6	18
52	Persistence and Potential Viable but Non-culturable State of Pathogenic Bacteria during Storage of Digestates from Agricultural Biogas Plants. <i>Frontiers in Microbiology</i> , 2016 , 7, 1469	5.7	18
51	Robust Data-Driven Soft Sensors for Online Monitoring of Volatile Fatty Acids in Anaerobic Digestion Processes. <i>Processes</i> , 2020 , 8, 67	2.9	16
50	Sea-use impact category in life cycle assessment: state of the art and perspectives. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 994-1006	4.6	16
49	Integrated Fault Detection and Isolation: Application to a Winery's Wastewater Treatment Plant. <i>Applied Intelligence</i> , 2000 , 13, 59-76	4.9	16
48	Reversibility of hydrolysis inhibition at high hydrogen partial pressure in dry anaerobic digestion processes fed with wheat straw and inoculated with anaerobic granular sludge. <i>Waste Management</i> , 2019 , 85, 498-505	8.6	15
47	Optimization of WWTP control by means of multi-objective genetic algorithms and sensitivity analysis. <i>Computer Aided Chemical Engineering</i> , 2008 , 25, 539-544	0.6	15
46	Similar PAH fate in anaerobic digesters inoculated with three microbial communities accumulating either volatile fatty acids or methane. <i>PLoS ONE</i> , 2015 , 10, e0125552	3.7	15

45	ALBA: A comprehensive growth model to optimize algae-bacteria wastewater treatment in raceway ponds. <i>Water Research</i> , 2021 , 190, 116734	12.5	15
44	Robust assessment of both biochemical methane potential and degradation kinetics of solid residues in successive batches. <i>Waste Management</i> , 2017 , 70, 59-70	8.6	14
43	Bioflocculation and settling studies of native wastewater filamentous cyanobacteria using different cultivation systems for a low-cost and easy to control harvesting process. <i>Journal of Environmental Management</i> , 2020 , 256, 109957	7.9	14
42	Sea use impact category in life cycle assessment: characterization factors for life support functions. <i>International Journal of Life Cycle Assessment</i> , 2015 , 20, 970-981	4.6	13
41	Representativeness of environmental impact assessment methods regarding Life Cycle Inventories. <i>Science of the Total Environment</i> , 2018 , 621, 1264-1271	10.2	13
40	Overview of the Oldest Existing Set of Substrate-optimized Anaerobic Processes: Digestive Tracts. <i>Bioenergy Research</i> , 2013 , 6, 1063-1081	3.1	13
39	Performance of a membrane-coupled high-rate algal pond for urban wastewater treatment at demonstration scale. <i>Bioresource Technology</i> , 2020 , 301, 122672	11	13
38	Data-driven techniques for fault detection in anaerobic digestion process. <i>Chemical Engineering Research and Design</i> , 2021 , 146, 905-915	5.5	13
37	Anaerobic Biodegradation of Cellulose-Xylan-Lignin Nanocomposites as Model Assemblies of Lignocellulosic Biomass. <i>Waste and Biomass Valorization</i> , 2014 , 5, 293-304	3.2	12
36	Fast ADM1 implementation for the optimization of feeding strategy using near infrared spectroscopy. <i>Water Research</i> , 2017 , 122, 27-35	12.5	11
35	Improvement of biohydrogen production from glycerol in micro-oxidative environment. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17802-17812	6.7	11
34	Impact of xylan structure and lignin-xylan association on methane production from C5-sugars. <i>Biomass and Bioenergy</i> , 2014 , 63, 33-45	5.3	11
33	Data mining to support anaerobic WWTP monitoring. <i>Control Engineering Practice</i> , 2007 , 15, 987-999	3.9	11
32	A tunable multivariable nonlinear robust observer for biological systems. <i>Comptes Rendus - Biologies</i> , 2005 , 328, 317-25	1.4	11
31	Comparative assessment of evaporation models in algal ponds. <i>Algal Research</i> , 2018 , 35, 283-291	5	11
30	Bioaerosol emissions from open microalgal processes and their potential environmental impacts: what can be learned from natural and anthropogenic aquatic environments?. <i>Current Opinion in Biotechnology</i> , 2015 , 33, 279-86	11.4	10
29	Using timed automata and model-checking to simulate material flow in agricultural production systems Application to animal waste management. <i>Computers and Electronics in Agriculture</i> , 2008 , 63, 183-192	6.5	10
28	Assessment of fungal and thermo-alkaline post-treatments of solid digestate in a recirculation scheme to increase flexibility in feedstocks supply management of biogas plants. <i>Renewable Energy</i> , 2020 , 149, 641-651	8.1	10

27	Impact of the microbial inoculum source on pre-treatment efficiency for fermentative H ₂ production from glycerol. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1597-1607	6.7	9
26	A tool to guide the selection of impact categories for LCA studies by using the representativeness index. <i>Science of the Total Environment</i> , 2019 , 658, 768-776	10.2	8
25	Instrumentation for synchrotron-radiation macromolecular crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006 , 62, 12-8		7
24	Mitigating the variability of hydrogen production in mixed culture through bioaugmentation with exogenous pure strains. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2617-2626	6.7	7
23	Influence of process dynamics on the microbial diversity in a nitrifying biofilm reactor: Correlation analysis and simulation study. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1962-74	4.9	7
22	Data-driven fault detection methods for detecting small-magnitude faults in anaerobic digestion process. <i>Water Science and Technology</i> , 2020 , 81, 1740-1748	2.2	6
21	Fault detection and diagnosis in water resource recovery facilities using incremental PCA. <i>Water Science and Technology</i> , 2020 , 82, 2711-2724	2.2	6
20	Unveiling non-linear water effects in near infrared spectroscopy: A study on organic wastes during drying using chemometrics. <i>Waste Management</i> , 2021 , 122, 36-48	8.6	6
19	Modelling non-ideal bio-physical-chemical effects on high-solids anaerobic digestion of the organic fraction of municipal solid waste. <i>Journal of Environmental Management</i> , 2019 , 238, 408-419	7.9	5
18	Assessing practical identifiability during calibration and cross-validation of a structured model for high-solids anaerobic digestion. <i>Water Research</i> , 2019 , 164, 114932	12.5	5
17	Needles of <i>Pinus halepensis</i> as biomonitors of bioaerosol emissions. <i>PLoS ONE</i> , 2014 , 9, e112182	3.7	5
16	Modelling hydrolysis: Simultaneous versus sequential biodegradation of the hydrolysable fractions. <i>Waste Management</i> , 2020 , 101, 150-160	8.6	5
15	Near-Infrared Spectrum Analysis to Determine Relationships between Biochemical Composition and Anaerobic Digestion Performances. <i>Chemical Engineering and Technology</i> , 2018 , 41, 727-738	2	4
14	Recirculation of solid digestate to enhance energy efficiency of biogas plants: Strategies, conditions and impacts. <i>Energy Conversion and Management</i> , 2021 , 231, 113759	10.6	4
13	Relating Near-Infrared Light Path-Length Modifications to the Water Content of Scattering Media in Near-Infrared Spectroscopy: Toward a New Bouguer-Beer-Lambert Law. <i>Analytical Chemistry</i> , 2021 , 93, 6817-6823	7.8	4
12	Ultrasonication affects the bio-accessibility of primary dairy cow manure digestate for secondary post-digestion. <i>Fuel</i> , 2021 , 291, 120140	7.1	4
11	Fast at-line characterization of solid organic waste: Comparing analytical performance of different compact near infrared spectroscopic systems with different measurement configurations. <i>Waste Management</i> , 2021 , 126, 664-673	8.6	4
10	Insights into bioflocculation of filamentous cyanobacteria, microalgae and their mixture for a low-cost biomass harvesting system. <i>Environmental Research</i> , 2021 , 199, 111359	7.9	4

9	Physical assessments of termites (Termitidae) under 2.45 GHz microwave irradiation. <i>Scientific Reports</i> , 2020 , 10, 5197	4.9	3
8	Selecting the most relevant variables for anaerobic digestion imbalances: two case studies. <i>Water Environment Research</i> , 2010 , 82, 492-8	2.8	2
7	ADD CONTROL: advanced control solutions for waste water treatment. <i>Reviews in Environmental Science and Biotechnology</i> , 2011 , 10, 3-7	13.9	1
6	Multivariable Robust Regulation of Alkalinities in Continuous Anaerobic Digestion Processes: Experimental Validation. <i>Processes</i> , 2021 , 9, 1153	2.9	1
5	Reply to the Comment on "Mathematical modeling of unicellular microalgae and cyanobacteria metabolism for biofuel production" by Baroukh et al. [Curr. Opin. Biotechnol. 2015, 33:198-205]. <i>Current Opinion in Biotechnology</i> , 2016 , 38, 200-2	11.4	1
4	Circular Economy Applied to Organic Residues and Wastewater: Research Challenges. <i>Waste and Biomass Valorization</i> , 1	3.2	1
3	Towards a Generalized Physicochemical Framework: WWTmod Workshop Position Paper. <i>Proceedings of the Water Environment Federation</i> , 2010 , 2010, 1054-1071		
2	On-site substrate characterization in the anaerobic digestion context: A dataset of near infrared spectra acquired with four different optical systems on freeze-dried and ground organic waste. <i>Data in Brief</i> , 2021 , 36, 107126	1.2	
1	Agronomic characterization of anaerobic digestates with near-infrared spectroscopy. <i>Journal of Environmental Management</i> , 2022 , 317, 115393	7.9	