Geoffroy Lesage

List of Publications by Year
in descending order

51 papers	1,970 citations	304368 22 h-index	243296 44 g-index
53 all docs	53 docs citations	53 times ranked	2092 citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane bioreactors for wastewater treatment: A review of mechanical cleaning by scouring agents to control membrane fouling. Chemical Engineering Journal, 2017, 307, 897-913.	6.6	254
2	Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control and energy considerations. Bioresource Technology, 2019, 283, 358-372.	4.8	183
3	Three-dimensional excitation and emission matrix fluorescence (3DEEM) for quick and pseudo-quantitative determination of protein- and humic-like substances in full-scale membrane bioreactor (MBR). Water Research, 2017, 118, 82-92.	5.3	151
4	Correlation between degradation pathway and toxicity of acetaminophen and its by-products by using the electro-Fenton process in aqueous media. Chemosphere, 2017, 172, 1-9.	4.2	127
5	Electrochemical advanced oxidation processes using novel electrode materials for mineralization and biodegradability enhancement of nanofiltration concentrate of landfill leachates. Water Research, 2019, 162, 446-455.	5.3	121
6	A review on anaerobic membrane bioreactors (AnMBRs) focused on modelling and control aspects. Bioresource Technology, 2018, 270, 612-626.	4.8	106
7	Toxicity removal assessments related to degradation pathways of azo dyes: Toward an optimization of Electro-Fenton treatment. Chemosphere, 2016, 161, 308-318.	4.2	95
8	Improved antifouling properties of TiO₂/PVDF nanocomposite membranes in UVâ€coupled ultrafiltration. Journal of Applied Polymer Science, 2015, 132, .	1.3	77
9	Coupling cathodic electro-fenton with anodic photo-electrochemical oxidation: A feasibility study on the mineralization of paracetamol. Journal of Environmental Chemical Engineering, 2020, 8, 104394.	3.3	60
10	A modelling approach to study the fouling of an anaerobic membrane bioreactor for industrial wastewater treatment. Bioresource Technology, 2017, 245, 207-215.	4.8	51
11	Synergistic effect of dual flocculation between inorganic salts and chitosan on harvesting microalgae Chlorella vulgaris. Environmental Technology and Innovation, 2020, 17, 100622.	3.0	49
12	Macroscopic approach to develop fouling model under GAC fluidization in anaerobic fluidized bed membrane bioreactor. Journal of Industrial and Engineering Chemistry, 2017, 49, 219-229.	2.9	44
13	Removal of organic micropollutants from domestic wastewater: The effect of ozone-based advanced oxidation process on nanofiltration. Journal of Water Process Engineering, 2021, 39, 101869.	2.6	44
14	Forward Osmosis as Concentration Process: Review of Opportunities and Challenges. Membranes, 2020, 10, 284.	1.4	42
15	Cost minimization in a full-scale conventional wastewater treatment plant: associated costs of biological energy consumption versus sludge production. Water Science and Technology, 2017, 76, 2473-2481.	1.2	39
16	Diversity of DNA viruses in effluents of membrane bioreactors in Traverse City, MI (USA) and La Grande Motte (France). Water Research, 2017, 111, 338-345.	5.3	36
17	Electro-oxidation of secondary effluents from various wastewater plants for the removal of acetaminophen and dissolved organic matter. Science of the Total Environment, 2020, 738, 140352.	3.9	36
18	Trends and progress in AnMBR for domestic wastewater treatment and their impacts on process efficiency and membrane fouling. Environmental Technology and Innovation, 2021, 21, 101204.	3.0	35

#	Article	IF	Citations
19	Tunable TiO₂â€“BNâ€“Pd nanofibers by combining electrospinning and atomic layer deposition to enhance photodegradation of acetaminophen. Dalton Transactions, 2022, 51, 2674-2695.	1.6	31
20	Removal of organic micropollutants in anaerobic membrane bioreactors in wastewater treatment: critical review. Environmental Science: Water Research and Technology, 2020, 6, 1230-1243.	1.2	29
21	Dynamic modeling of biodegradation and volatilization of hazardous aromatic substances in aerobic bioreactor. Water Research, 2012, 46, 5327-5342.	5.3	27
22	Characteristics and fouling behaviors of Dissolved Organic Matter fractions in a full-scale submerged membrane bioreactor for municipal wastewater treatment. Biochemical Engineering Journal, 2018, 132, 169-181.	1.8	27
23	Photoelectrocatalysis of paracetamol on Pdâ€“ZnO/ N-doped carbon nanofibers electrode. Applied Materials Today, 2021, 24, 101129.	2.3	26
24	Water and nutrients recovering from livestock manure by membrane processes. Canadian Journal of Chemical Engineering, 2015, 93, 225-233.	0.9	23
25	Emerging investigator series: photocatalysis for MBR effluent post-treatment: assessing the effects of effluent organic matter characteristics. Environmental Science: Water Research and Technology, 2019, 5, 482-494.	1.2	21
26	Combined Electro-Fenton and Anodic Oxidation Processes at a Sub-Stoichiometric Titanium Oxide (Ti4O7) Ceramic Electrode for the Degradation of Tetracycline in Water. Water (Switzerland), 2021, 13, 2772.	1.2	19
27	Design of halloysite-based nanocomposites by electrospinning for water treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129696.	2.3	19
28	Insight into photochemical oxidation of Fenuron in water using iron oxide and oxalate: The roles of the dissolved oxygen. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 329, 120-129.	2.0	17
29	New insight into fate and fouling behavior of bulk Dissolved Organic Matter (DOM) in a full-scale membrane bioreactor for domestic wastewater treatment. Journal of Water Process Engineering, 2018, 22, 94-102.	2.6	17
30	Analysis and modelling of non-equilibrium sorption of aromatic micro-pollutants on GAC with a multi-compartment dynamic model. Chemical Engineering Journal, 2010, 160, 457-465.	6.6	16
31	Clean synthesis of adipic acid from cyclohexene in microemulsions with stearyl dimethyl benzyl ammonium chloride as surfactant: From the laboratory to bench scale. Chemical Engineering Journal, 2012, 200-202, 357-364.	6.6	16
32	Enhanced organic degradation and biogas production of domestic wastewater at psychrophilic temperature through submerged granular anaerobic membrane bioreactor for energy-positive treatment. Bioresource Technology, 2022, 353, 127145.	4.8	14
33	Brewery wastewater treatment using MBR coupled with nanofiltration or electrodialysis: biomass acclimation and treatment efficiency. Water Science and Technology, 2018, 77, 2624-2634.	1.2	12
34	Steady-State Methodology for Activated Sludge Model 1 (ASM1) State Variable Calculation in MBR. Water (Switzerland), 2020, 12, 3220.	1.2	11
35	Hollow-Fiber Membrane Contactor for Biogas Recovery from Real Anaerobic Membrane Bioreactor Permeate. Membranes, 2022, 12, 112.	1.4	11
36	Minimum COD needs for denitrification: from biological models to experimental set-up. , 0, 61, 326-334.		10

#	Article	IF	Citations
37	Sustainable process for adipic acid production from cyclohexene in microemulsion. Catalysis Today, 2020, 346, 40-45.	2.2	9
38	Impact of permeate flux and gas sparging rate on membrane performance and process economics of granular anaerobic membrane bioreactors. Science of the Total Environment, 2022, 825, 153907.	3.9	9
39	Link between dissolved organic matter transformation and process performance in a membrane bioreactor for urinary nitrogen stabilization. Environmental Science: Water Research and Technology, 2018, 4, 806-819.	1.2	8
40	New urban wastewater treatment with autotrophic membrane bioreactor at low chemical oxygen demand/N substrate ratio. Water Science and Technology, 2014, 69, 960-965.	1.2	7
41	Electrochemical oxidation treatment of Direct Red 23 aqueous solutions: Influence of the operating conditions. Separation Science and Technology, 2022, 57, 1501-1520.	1.3	7
42	Performance of nanofiltration and reverse osmosis after membrane bioreactor for urban source-separated urine treatment and water reuse. , 0, 95, 18-33.		7
43	Techno-economic analysis of forward osmosis pre-concentration before an anaerobic membrane bioreactor: Impact of draw solute and membrane material. Journal of Cleaner Production, 2022, 356, 131776.	4.6	7
44	Submerged osmotic processes: Design and operation of hollow fiber forward osmosis modules. Desalination, 2021, 518, 115281.	4.0	4
45	Impact of Pre-Ozonation during Nanofiltration of MBR Effluent. Membranes, 2022, 12, 341.	1.4	4
46	Calibration of ASM-SMP Model Under Specific Experimental Conditions for Membrane Bioreactor Application. Current Environmental Engineering, 2015, 2, 11-18.	0.6	3
47	Characterization of Active Biomass and Species by Means of Respirometric Technique from Activated Sludge Models. International Journal of Environmental Research, 2017, 11, 489-500.	1.1	3
48	Performances of a submerged anaerobic membrane bioreactor (AnMBR) for latex serum treatment. Desalination and Water Treatment, 0, , 1-13.	1.0	2
49	Beer and soft drinks industry wastewater treatment using an anoxic-aerobic membrane bioreactor (MBR) coupling with nanofiltration in Sahelian context. , 0, 126, 32-39.		2
50	Impact of decreasing COD/N ratio on nitrogen removal and fouling in a membrane bioreactor for urban wastewater treatment. , 0, 80, 121-132.		1
51	Membrane processes for wastewater remediation. , 2020, , 175-211.		0