

Marc Heran

List of Publications by Year in descending order

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papers

2,382
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257101

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2611
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#	ARTICLE	IF	CITATIONS
1	Membrane bioreactors for wastewater treatment: A review of mechanical cleaning by scouring agents to control membrane fouling. <i>Chemical Engineering Journal</i> , 2017, 307, 897-913.	6.6	254
2	Recent developments in nanostructured inorganic materials for sorption of cesium and strontium: Synthesis and shaping, sorption capacity, mechanisms, and selectivity—A review. <i>Journal of Hazardous Materials</i> , 2018, 344, 511-530.	6.5	205
3	Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control and energy considerations. <i>Bioresource Technology</i> , 2019, 283, 358-372.	4.8	183
4	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). <i>Water Research</i> , 2017, 118, 82-92.	5.3	151
5	Electrochemical advanced oxidation processes using novel electrode materials for mineralization and biodegradability enhancement of nanofiltration concentrate of landfill leachates. <i>Water Research</i> , 2019, 162, 446-455.	5.3	121
6	Nanofiltration membrane bioreactor for removing pharmaceutical compounds. <i>Journal of Membrane Science</i> , 2013, 429, 121-129.	4.1	108
7	A review on anaerobic membrane bioreactors (AnMBRs) focused on modelling and control aspects. <i>Bioresource Technology</i> , 2018, 270, 612-626.	4.8	106
8	Treatment of textile plant effluent by nanofiltration and/or reverse osmosis for water reuse. <i>Desalination</i> , 2005, 178, 333-341.	4.0	92
9	Improved antifouling properties of TiO ₂ /PVDF nanocomposite membranes in UV-coupled ultrafiltration. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	77
10	Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. <i>Desalination</i> , 2010, 250, 798-800.	4.0	66
11	Ultrafiltration enhanced by coagulation in an immersed membrane system. <i>Desalination</i> , 2002, 145, 265-272.	4.0	60
12	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.	1.4	58
13	A modelling approach to study the fouling of an anaerobic membrane bioreactor for industrial wastewater treatment. <i>Bioresource Technology</i> , 2017, 245, 207-215.	4.8	51
14	Macroscopic approach to develop fouling model under GAC fluidization in anaerobic fluidized bed membrane bioreactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 49, 219-229.	2.9	44
15	Using FO as pre-treatment of RO for high scaling potential brackish water: Energy and performance optimisation. <i>Journal of Membrane Science</i> , 2015, 492, 430-438.	4.1	43
16	Forward Osmosis as Concentration Process: Review of Opportunities and Challenges. <i>Membranes</i> , 2020, 10, 284.	1.4	42
17	Cost minimization in a full-scale conventional wastewater treatment plant: associated costs of biological energy consumption versus sludge production. <i>Water Science and Technology</i> , 2017, 76, 2473-2481.	1.2	39
18	Diversity of DNA viruses in effluents of membrane bioreactors in Traverse City, MI (USA) and La Grande Motte (France). <i>Water Research</i> , 2017, 111, 338-345.	5.3	36

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19	Trends and progress in AnMBR for domestic wastewater treatment and their impacts on process efficiency and membrane fouling. <i>Environmental Technology and Innovation</i> , 2021, 21, 101204.	3.0	35
20	Sequencing versus continuous membrane bioreactors: Effect of substrate to biomass ratio (F/M) on process performance. <i>Journal of Membrane Science</i> , 2008, 317, 71-77.	4.1	31
21	Effects of starvation conditions on biomass behaviour for minimization of sludge production in membrane bioreactors. <i>Water Science and Technology</i> , 2005, 51, 35-44.	1.2	30
22	Removal of organic micropollutants in anaerobic membrane bioreactors in wastewater treatment: critical review. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1230-1243.	1.2	29
23	Soluble microbial products and suspended solids influence in membrane fouling dynamics and interest of punctual relaxation and/or backwashing. <i>Journal of Membrane Science</i> , 2015, 475, 156-166.	4.1	28
24	Fouling in a novel airlift oxidation ditch membrane bioreactor (AOXMBR) at different high organic loading rate. <i>Separation and Purification Technology</i> , 2013, 105, 69-78.	3.9	27
25	Characteristics and fouling behaviors of Dissolved Organic Matter fractions in a full-scale submerged membrane bioreactor for municipal wastewater treatment. <i>Biochemical Engineering Journal</i> , 2018, 132, 169-181.	1.8	27
26	Water and nutrients recovering from livestock manure by membrane processes. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 225-233.	0.9	23
27	Biomass characterization by dielectric monitoring of viability and oxygen uptake rate measurements in a novel membrane bioreactor. <i>Bioresource Technology</i> , 2013, 140, 357-362.	4.8	22
28	Emerging investigator series: photocatalysis for MBR effluent post-treatment: assessing the effects of effluent organic matter characteristics. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 482-494.	1.2	21
29	Contribution of a submerged membrane bioreactor in the treatment of synthetic effluent contaminated by Bisphenol-A: Mechanism of BPA removal and membrane fouling. <i>Environmental Pollution</i> , 2013, 180, 229-235.	3.7	18
30	Influence of module configuration and hydrodynamics in water clarification by immersed membrane systems. <i>Water Science and Technology</i> , 2005, 51, 135-142.	1.2	17
31	New insight into fate and fouling behavior of bulk Dissolved Organic Matter (DOM) in a full-scale membrane bioreactor for domestic wastewater treatment. <i>Journal of Water Process Engineering</i> , 2018, 22, 94-102.	2.6	17
32	The influence of operating conditions on permeability changes in a submerged membrane bioreactor. <i>Separation and Purification Technology</i> , 2006, 52, 60-66.	3.9	16
33	MBR functioning under steady and unsteady state conditions. Impact on performances and membrane fouling dynamics. <i>Desalination</i> , 2008, 231, 209-218.	4.0	15
34	Enhanced organic degradation and biogas production of domestic wastewater at psychrophilic temperature through submerged granular anaerobic membrane bioreactor for energy-positive treatment. <i>Bioresource Technology</i> , 2022, 353, 127145.	4.8	14
35	Prediction of cross-flow microfiltration through an inorganic tubular membrane with high-frequency retrofiltration. <i>Chemical Engineering Science</i> , 2001, 56, 3075-3082.	1.9	12
36	Measurement of kinetic parameters in a submerged aerobic membrane bioreactor fed on acetate and operated without biomass discharge. <i>Biochemical Engineering Journal</i> , 2008, 38, 70-77.	1.8	12

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37	Membrane bioreactor: Distribution of critical flux throughout an immersed HF bundle. <i>Desalination</i> , 2008, 231, 245-252.	4.0	12
38	Deposit membrane fouling: influence of specific cake layer resistance and tangential shear stresses. <i>Water Science and Technology</i> , 2014, 70, 40-46.	1.2	12
39	Brewery wastewater treatment using MBR coupled with nanofiltration or electrodialysis: biomass acclimation and treatment efficiency. <i>Water Science and Technology</i> , 2018, 77, 2624-2634.	1.2	12
40	Steady-State Methodology for Activated Sludge Model 1 (ASM1) State Variable Calculation in MBR. <i>Water (Switzerland)</i> , 2020, 12, 3220.	1.2	11
41	Membrane bioreactor performances: comparison between continuous and sequencing systems. <i>Desalination</i> , 2006, 199, 319-321.	4.0	10
42	Membrane air flow rates and HF sludging phenomenon in SMBR. <i>Desalination</i> , 2009, 236, 135-142.	4.0	10
43	Integrated membrane bioreactors modelling: A review on new comprehensive modelling framework. <i>Bioresource Technology</i> , 2021, 329, 124828.	4.8	10
44	Minimum COD needs for denitrification: from biological models to experimental set-up. , 0, 61, 326-334.		10
45	Batch Reverse Osmosis Desalination Modeling under a Time-Dependent Pressure Profile. <i>Membranes</i> , 2021, 11, 173.	1.4	9
46	Impact of permeate flux and gas sparging rate on membrane performance and process economics of granular anaerobic membrane bioreactors. <i>Science of the Total Environment</i> , 2022, 825, 153907.	3.9	9
47	Continuous and sequencing membrane bioreactors applied to food industry effluent treatment. <i>Water Science and Technology</i> , 2007, 56, 71-77.	1.2	8
48	Link between dissolved organic matter transformation and process performance in a membrane bioreactor for urinary nitrogen stabilization. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 806-819.	1.2	8
49	Optimization of Flow Shear Stress Through a Network of Capillary Fibers With the Use of CFD. <i>International Journal of Chemical Reactor Engineering</i> , 2004, 2, .	0.6	7
50	Membrane bioreactor performances: effluent quality of continuous and sequencing systems for water reuse. <i>Desalination</i> , 2007, 204, 39-45.	4.0	7
51	Optimization of the operations conditions in membrane bioreactors through the use of ASM3 model simulations. <i>Desalination and Water Treatment</i> , 2009, 9, 126-130.	1.0	7
52	New urban wastewater treatment with autotrophic membrane bioreactor at low chemical oxygen demand/N substrate ratio. <i>Water Science and Technology</i> , 2014, 69, 960-965.	1.2	7
53	Fouling Behavior in a High-Rate Anaerobic Submerged Membrane Bioreactor (AnMBR) for Palm Oil Mill Effluent (POME) Treatment. <i>Membranes</i> , 2021, 11, 649.	1.4	7
54	Performance of nanofiltration and reverse osmosis after membrane bioreactor for urban source-separated urine treatment and water reuse. , 0, 95, 18-33.		7

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55	Microfiltration through an inorganic tubular membrane with high frequency retrofiltration. <i>Journal of Membrane Science</i> , 2001, 188, 181-188.	4.1	6
56	Dielectric monitoring and respirometric activity of a high cell density activated sludge. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 425-431.	1.2	6
57	Identification of Foulants on Polyethersulfone Membranes Used to Remove Colloids and Dissolved Matter from Paper Mill Treated Effluent. <i>Water (Switzerland)</i> , 2020, 12, 365.	1.2	6
58	Position paper " progress towards standards in integrated (aerobic) MBR modelling. <i>Water Science and Technology</i> , 2020, 81, 1-9.	1.2	6
59	Surface water clarification by ultrafiltration with an immersed membrane system: effect of coagulation/aeration on flux enhancement. <i>Water Science and Technology: Water Supply</i> , 2003, 3, 393-399.	1.0	5
60	How to Optimize Hollow-Fiber Submerged Membrane Bioreactors. <i>Water Environment Research</i> , 2012, 84, 115-119.	1.3	5
61	Biodegradation of Ammonium Ions and Formate During Ammonium Formate Metabolism by <i>Yarrowia lipolytica</i> and <i>Pichia guilliermondii</i> in a Batch Reactor. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 162.	1.1	5
62	Novel polyvinylidene fluoride/lead-doped zinc oxide adsorptive membranes for enhancement of the removal of reactive textile dye. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 2793-2804.	1.8	5
63	Cross-flow microfiltration with high frequency reverse flow. <i>Water Science and Technology</i> , 2000, 41, 337-343.	1.2	5
64	Pb doped ZnO nanoparticles for the sorption of Reactive Black 5 textile azo dye. <i>Water Science and Technology</i> , 2020, 82, 2576-2591.	1.2	5
65	Comparison of Textile Dye Treatment by Biosorption and Membrane Bioreactor. <i>Environmental Technology (United Kingdom)</i> , 2007, 28, 1325-1331.	1.2	4
66	État actuel des connaissances des procédés de bioracteur à membrane pour le traitement et la réutilisation des eaux usées industrielles et urbaines. <i>Revue Des Sciences De L'Eau</i> , 0, 24, 283-310.	0.2	4
67	Submerged osmotic processes: Design and operation of hollow fiber forward osmosis modules. <i>Desalination</i> , 2021, 518, 115281.	4.0	4
68	Fouling analysis and biomass distribution on a membrane bioreactor under low ratio COD/N. <i>Membrane Water Treatment</i> , 2015, 6, 263-276.	0.5	4
69	Identification and quantification of foulant in submerged membrane reactor. <i>Desalination and Water Treatment</i> , 2010, 24, 278-283.	1.0	3
70	Calibration of ASM-SMP Model Under Specific Experimental Conditions for Membrane Bioreactor Application. <i>Current Environmental Engineering</i> , 2015, 2, 11-18.	0.6	3
71	Characterization of Active Biomass and Species by Means of Respirometric Technique from Activated Sludge Models. <i>International Journal of Environmental Research</i> , 2017, 11, 489-500.	1.1	3
72	Air lift relevance in a side-stream MBR system. <i>Desalination</i> , 2006, 199, 485-486.	4.0	2

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73	Performances of a submerged anaerobic membrane bioreactor (AnMBR) for latex serum treatment. Desalination and Water Treatment, 0, , 1-13.	1.0	2
74	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
75	Change in Paradigm in wastewater Treatment and His Impact on Fouling Membrane. Procedia Engineering, 2012, 44, 1819.	1.2	1
76	New technology for wastewater treatment to decrease fouling propensity. Desalination and Water Treatment, 2014, 52, 2193-2200.	1.0	1
77	Flexibility of Waste Resource Recovery Facilities for water Reuse. , 2020, , .		1
78	Impact of decreasing COD/N ratio on nitrogen removal and fouling in a membrane bioreactor for urban wastewater treatment. , 0, 80, 121-132.		1
79	A Different Approach for Steady-state Activated Sludge Modelling. Lecture Notes in Civil Engineering, 2017, , 734-739.	0.3	0