

Marc Heran

List of Publications by Year in descending order

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79
papers

2,382
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257101

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docs citations

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times ranked

2611
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Batch Reverse Osmosis Desalination Modeling under a Time-Dependent Pressure Profile. <i>Membranes</i> , 2021, 11, 173. | 1.4 | 9 |
| 6 | Integrated membrane bioreactors modelling: A review on new comprehensive modelling framework. <i>Bioresource Technology</i> , 2021, 329, 124828. | 4.8 | 10 |
| 7 | 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 |
| 8 | Submerged osmotic processes: Design and operation of hollow fiber forward osmosis modules. <i>Desalination</i> , 2021, 518, 115281. | 4.0 | 4 |
| 9 | Flexibility of Waste Resource Recovery Facilities for water Reuse. , 2020, , . | | 1 |
| 10 | Steady-State Methodology for Activated Sludge Model 1 (ASM1) State Variable Calculation in MBR. <i>Water (Switzerland)</i> , 2020, 12, 3220. | 1.2 | 11 |
| 11 | Forward Osmosis as Concentration Process: Review of Opportunities and Challenges. <i>Membranes</i> , 2020, 10, 284. | 1.4 | 42 |
| 12 | 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 |
| 13 | 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 |
| 14 | Position paper " progress towards standards in integrated (aerobic) MBR modelling. <i>Water Science and Technology</i> , 2020, 81, 1-9. | 1.2 | 6 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control and energy considerations. <i>Bioresource Technology</i> , 2019, 283, 358-372. | 4.8 | 183 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | A review on anaerobic membrane bioreactors (AnMBRs) focused on modelling and control aspects. <i>Bioresource Technology</i> , 2018, 270, 612-626. | 4.8 | 106 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | A Different Approach for Steady-state Activated Sludge Modelling. <i>Lecture Notes in Civil Engineering</i> , 2017, , 734-739. | 0.3 | 0 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Water and nutrients recovering from livestock manure by membrane processes. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 225-233. | 0.9 | 23 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | New technology for wastewater treatment to decrease fouling propensity. <i>Desalination and Water Treatment</i> , 2014, 52, 2193-2200. | 1.0 | 1 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Nanofiltration membrane bioreactor for removing pharmaceutical compounds. <i>Journal of Membrane Science</i> , 2013, 429, 121-129. | 4.1 | 108 |
| 49 | How to Optimize Hollow-Fiber Submerged Membrane Bioreactors. <i>Water Environment Research</i> , 2012, 84, 115-119. | 1.3 | 5 |
| 50 | Change in Paradigm in wastewater Treatment and His Impact on Fouling Membrane. <i>Procedia Engineering</i> , 2012, 44, 1819. | 1.2 | 1 |
| 51 | Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. <i>Desalination</i> , 2010, 250, 798-800. | 4.0 | 66 |
| 52 | Identification and quantification of foulant in submerged membrane reactor. <i>Desalination and Water Treatment</i> , 2010, 24, 278-283. | 1.0 | 3 |
| 53 | Membrane air flow rates and HF sludging phenomenon in SMBR. <i>Desalination</i> , 2009, 236, 135-142. | 4.0 | 10 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Membrane bioreactor: Distribution of critical flux throughout an immersed HF bundle. <i>Desalination</i> , 2008, 231, 245-252. | 4.0 | 12 |
| 58 | 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 |
| 59 | Continuous and sequencing membrane bioreactors applied to food industry effluent treatment. <i>Water Science and Technology</i> , 2007, 56, 71-77. | 1.2 | 8 |
| 60 | Comparison of Textile Dye Treatment by Biosorption and Membrane Bioreactor. <i>Environmental Technology (United Kingdom)</i> , 2007, 28, 1325-1331. | 1.2 | 4 |
| 61 | Membrane bioreactor performances: effluent quality of continuous and sequencing systems for water reuse. <i>Desalination</i> , 2007, 204, 39-45. | 4.0 | 7 |
| 62 | Membrane bioreactor performances: comparison between continuous and sequencing systems. <i>Desalination</i> , 2006, 199, 319-321. | 4.0 | 10 |
| 63 | Air lift relevance in a side-stream MBR system. <i>Desalination</i> , 2006, 199, 485-486. | 4.0 | 2 |
| 64 | 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 |
| 65 | Treatment of textile plant effluent by nanofiltration and/or reverse osmosis for water reuse. <i>Desalination</i> , 2005, 178, 333-341. | 4.0 | 92 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | Ultrafiltration enhanced by coagulation in an immersed membrane system. <i>Desalination</i> , 2002, 145, 265-272. | 4.0 | 60 |
| 71 | Microfiltration through an inorganic tubular membrane with high frequency retrofiltration. <i>Journal of Membrane Science</i> , 2001, 188, 181-188. | 4.1 | 6 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | Cross-flow microfiltration with high frequency reverse flow. Water Science and Technology, 2000, 41, 337-343. | 1.2 | 5 |
| 74 | État actuel des connaissances des procédés de bioracteur à membrane pour le traitement et la réutilisation des eaux usées industrielles et urbaines. Revue Des Sciences De L'Eau, 0, 24, 283-310. | 0.2 | 4 |
| 75 | Performances of a submerged anaerobic membrane bioreactor (AnMBR) for latex serum treatment. Desalination and Water Treatment, 0, , 1-13. | 1.0 | 2 |
| 76 | Minimum COD needs for denitrification: from biological models to experimental set-up. , 0, 61, 326-334. | | 10 |
| 77 | Performance of nanofiltration and reverse osmosis after membrane bioreactor for urban source-separated urine treatment and water reuse. , 0, 95, 18-33. | | 7 |
| 78 | 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 |
| 79 | Impact of decreasing COD/N ratio on nitrogen removal and fouling in a membrane bioreactor for urban wastewater treatment. , 0, 80, 121-132. | | 1 |