

# Andrea Achilli

## 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.

28  
papers

3,430  
citations

15  
h-index

29  
g-index

29  
ext. papers

3,790  
ext. citations

9.5  
avg, IF

5.53  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 28 | The forward osmosis membrane bioreactor: A low fouling alternative to MBR processes. <i>Desalination</i> , <b>2009</b> , 239, 10-21   | 10.3 | 644       |
| 27 | Power generation with pressure retarded osmosis: An experimental and theoretical investigation. <i>Journal of Membrane Science</i> , <b>2009</b> , 343, 42-52                               | 9.6  | 574       |
| 26 | Selection of inorganic-based draw solutions for forward osmosis applications. <i>Journal of Membrane Science</i> , <b>2010</b> , 364, 233-241   | 9.6  | 533       |
| 25 | Pressure retarded osmosis: From the vision of Sidney Loeb to the first prototype installation □ Review. <i>Desalination</i> , <b>2010</b> , 261, 205-211                                    | 10.3 | 360       |
| 24 | A review of polymeric membranes and processes for potable water reuse. <i>Progress in Polymer Science</i> , <b>2016</b> , 81, 209-237   | 29.6 | 304       |
| 23 | Standard Methodology for Evaluating Membrane Performance in Osmotically Driven Membrane Processes. <i>Desalination</i> , <b>2013</b> , 312, 31-38   | 10.3 | 304       |
| 22 | RO-PRO desalination: An integrated low-energy approach to seawater desalination. <i>Applied Energy</i> , <b>2014</b> , 120, 104-114   | 10.7 | 149       |
| 21 | Organic ionic salt draw solutions for osmotic membrane bioreactors. <i>Bioresource Technology</i> , <b>2012</b> , 122, 207-16   | 11   | 124       |
| 20 | Experimental results from RO-PRO: a next generation system for low-energy desalination. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 6437-43                           | 10.3 | 115       |
| 19 | The osmotic membrane bioreactor: a critical review. <i>Environmental Science: Water Research and Technology</i> , <b>2015</b> , 1, 581-605  | 4.2  | 92        |
| 18 | River-to-sea pressure retarded osmosis: Resource utilization in a full-scale facility. <i>Desalination</i> , <b>2016</b> , 389, 39-51   | 10.3 | 52        |
| 17 | A stepwise model of direct contact membrane distillation for application to large-scale systems: Experimental results and model predictions. <i>Desalination</i> , <b>2016</b> , 378, 14-27 | 10.3 | 37        |
| 16 | Integrating an aerobic/anoxic osmotic membrane bioreactor with membrane distillation for potable reuse. <i>Desalination</i> , <b>2018</b> , 432, 46-54                                      | 10.3 | 35        |
| 15 | Factors contributing to flux improvement in vacuum-enhanced direct contact membrane distillation. <i>Desalination</i> , <b>2015</b> , 367, 197-205  | 10.3 | 33        |
| 14 | Forward osmosis and pressure retarded osmosis process modeling for integration with seawater reverse osmosis desalination. <i>Desalination</i> , <b>2020</b> , 491, 114583                  | 10.3 | 17        |
| 13 | A modeling framework to evaluate blending of seawater and treated wastewater streams for synergistic desalination and potable reuse. <i>Water Research</i> , <b>2020</b> , 170, 115282      | 12.5 | 12        |
| 12 | Coastal California Wastewater Effluent as a Resource for Seawater Desalination Brine Commingling. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 322  | 3    | 9         |

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|----|---|------|---|
| 11 | Challenges and opportunities at the nexus of energy, water, and food: A perspective from the southwest United States. <i>MRS Energy &amp; Sustainability</i> , <b>2018</b> , 5, 1   | 2.2  | 7 |
| 10 | Increasing water recovery during reclamation of treated municipal wastewater using bipolar membrane electrodialysis and fluidized bed crystallization. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 38, 101555 | 6.7  | 6 |
| 9  | Emerging investigator series: membrane distillation and high salinity: analysis and implications. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 1538-1552                                    | 4.2  | 5 |
| 8  | Membrane Distillation Provides a Dual Barrier for Coronavirus and Bacteriophage Removal. <i>Environmental Science and Technology Letters</i> , <b>2021</b> , 8, 713-718   | 11   | 4 |
| 7  | Pretreatment for water reuse using fluidized bed crystallization. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 35, 101226  | 6.7  | 4 |
| 6  | Pressure-Retarded Osmosis <b>2013</b> , 1   |      | 3 |
| 5  | Net Zero Urban Water from Concept to Applications: Integrating Natural, Built, and Social Systems for Responsive and Adaptive Solutions. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 518-529                                 |      | 2 |
| 4  | Evidence of solution-diffusion-with-defects in an engineering-scale pressure retarded osmosis system. <i>Journal of Membrane Science</i> , <b>2021</b> , 625, 119135  | 9.6  | 2 |
| 3  | Modeling the energy consumption of potable water reuse schemes.. <i>Water Research X</i> , <b>2021</b> , 13, 1001268.1  |      | 1 |
| 2  | Extending the life of water reuse reverse osmosis membranes using chlorination. <i>Journal of Membrane Science</i> , <b>2021</b> , 119897   | 9.6  | 1 |
| 1  | Scale-up of membrane distillation systems using bench-scale data. <i>Desalination</i> , <b>2022</b> , 530, 115654   | 10.3 | 1 |