

Liat Birnhack

List of Publications by Year in descending order

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29
papers

796
citations

516561

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30
docs citations

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times ranked

675
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Struvite recovery from municipal-wastewater sludge centrifuge supernatant using seawater NF concentrate as a cheap Mg(II) source. Separation and Purification Technology, 2013, 108, 103-110. | 3.9 | 152 |
| 2 | Fundamental chemistry and engineering aspects of post-treatment processes for desalinated water—A review. Desalination, 2011, 273, 6-22. | 4.0 | 91 |
| 3 | Quality criteria for desalinated water following post-treatment. Desalination, 2007, 207, 286-303. | 4.0 | 87 |
| 4 | A new post-treatment process for attaining Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ and alkalinity criteria in desalinated water. Water Research, 2007, 41, 3989-3997. | 5.3 | 56 |
| 5 | Selective separation of seawater Mg ²⁺ ions for use in downstream water treatment processes. Chemical Engineering Journal, 2011, 175, 136-143. | 6.6 | 50 |
| 6 | Potential applications of quarry dolomite for post treatment of desalinated water. Desalination and Water Treatment, 2009, 1, 58-67. | 1.0 | 31 |
| 7 | Highly-selective separation of divalent ions from seawater and seawater RO retentate. Separation and Purification Technology, 2017, 175, 460-468. | 3.9 | 27 |
| 8 | Quality criteria for desalinated water and introduction of a novel, cost effective and advantageous post treatment process. Desalination, 2008, 221, 70-83. | 4.0 | 24 |
| 9 | A cost effective method for improving the quality of inland desalinated brackish water destined for agricultural irrigation. Desalination, 2010, 262, 152-160. | 4.0 | 24 |
| 10 | Selective separation of divalent ions from seawater using an integrated ion-exchange/nanofiltration approach. Chemical Engineering and Processing: Process Intensification, 2018, 126, 8-15. | 1.8 | 24 |
| 11 | A novel approach for SWRO desalination plants operation, comprising single pass boron removal and reuse of CO ₂ in the post treatment step. Chemical Engineering Journal, 2012, 187, 275-282. | 6.6 | 23 |
| 12 | Design aspects of calcite-dissolution reactors applied for post treatment of desalinated water. Desalination, 2013, 314, 1-9. | 4.0 | 23 |
| 13 | DiaNanofiltration-based method for inexpensive and selective separation of Mg ²⁺ and Ca ²⁺ ions from seawater, for improving the quality of soft and desalinated waters. Separation and Purification Technology, 2016, 166, 83-91. | 3.9 | 21 |
| 14 | Establishment of the Underlying Rationale and Description of a Cheap Nanofiltration-Based Method for Supplementing Desalinated Water with Magnesium Ions. Water (Switzerland), 2014, 6, 1172-1186. | 1.2 | 20 |
| 15 | Reducing the specific energy consumption of 1st-pass SWRO by application of high-flux membranes fed with high-pH, decarbonated seawater. Water Research, 2015, 85, 185-192. | 5.3 | 17 |
| 16 | Development of an additional step to current CO ₂ -based CaCO ₃ (s) dissolution post-treatment processes for cost-effective Mg ²⁺ supply to desalinated water. Chemical Engineering Journal, 2010, 160, 48-56. | 6.6 | 16 |
| 17 | A new algorithm for design, operation and cost assessment of struvite (MgNH ₄ PO ₄) precipitation processes. Environmental Technology (United Kingdom), 2015, 36, 1892-1901. | 1.2 | 14 |
| 18 | Pilot scale evaluation of a novel post-treatment process for desalinated water. Desalination and Water Treatment, 2010, 13, 128-136. | 1.0 | 13 |

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|----|--|-----|-----------|
| 19 | A different approach for brackish-water desalination, comprising acidification of the feed-water and CO ₂ (aq) reuse for alkalinity, Ca ²⁺ and Mg ²⁺ supply in the post treatment stage. Separation and Purification Technology, 2012, 89, 252-260. | 3.9 | 12 |
| 20 | A new thermal-reduction-based approach for producing Mg from seawater. Hydrometallurgy, 2017, 169, 520-533. | 1.8 | 12 |
| 21 | Replenishing Mg(II) to desalinated water by seawater nanofiltration followed by magnetic separation of Mg(OH) ₂ (s)Fe ₃ O ₄ particles. Desalination and Water Treatment, 2016, 57, 19903-19916. | 1.0 | 11 |
| 22 | Intensification and energy minimization of seawater reverse osmosis desalination through high-pH operation: Temperature dependency and second pass implications. Chemical Engineering and Processing: Process Intensification, 2018, 131, 84-91. | 1.8 | 11 |
| 23 | Removal of Nitrate from Drinking Water by Ion-Exchange Followed by nZVI-Based Reduction and Electrooxidation of the Ammonia Product to N ₂ (g). ChemEngineering, 2017, 1, 2. | 1.0 | 8 |
| 24 | Implementation, Design and Cost Assessment of a Membrane-Based Process for Selectively Enriching Desalinated Water with Divalent Seawater Ions. ChemEngineering, 2018, 2, 41. | 1.0 | 8 |
| 25 | Modelling Heavy Metal Contamination Events in Water Distribution Systems. Procedia Engineering, 2015, 119, 328-336. | 1.2 | 7 |
| 26 | Post-Treatment of Desalinated Water – Chemistry, Design, Engineering, and Implementation. , 2018, , 305-350. | | 5 |
| 27 | Dolomite dissolution is not an attractive alternative for meeting Ca ²⁺ , Mg ²⁺ and alkalinity criteria in desalination plants – post treatment step. , 0, 115, 194-198. | | 5 |
| 28 | Accurate approach for determining fresh-water carbonate (H ₂ CO ₃ *) alkalinity, using a single H ₃ PO ₄ titration point. Talanta, 2012, 100, 12-20. | 2.9 | 3 |
| 29 | Rehabilitation of Water Distribution Systems following a Cadmium Contamination Intrusion – A Solution Based on Water Quality and Water Distribution Systems Modeling. , 2019, , . | | 1 |