Liat Birnhack

List of Publications by Year
in descending order

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29 papers	796 citations	516561 16 h-index	552653 26 g-index
30 all docs	30 docs citations	30 times ranked	675 citing authors

#	Article	IF	Citations
1	Rehabilitation of Water Distribution Systems following a Cadmium Contamination Intrusionâ€" A Solution Based on Water Quality and Water Distribution Systems Modeling. , 2019, , .		1
2	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
3	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
4	Post-Treatment of Desalinated Waterâ€"Chemistry, Design, Engineering, and Implementation. , 2018, , 305-350.		5
5	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
6	A new thermal-reduction-based approach for producing Mg from seawater. Hydrometallurgy, 2017, 169, 520-533.	1.8	12
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	Removal of Nitrate from Drinking Water by Ion-Exchange Followed by nZVI-Based Reduction and Electrooxidation of the Ammonia Product to N2(g). ChemEngineering, 2017, 1, 2.	1.0	8
9	DiaNanofiltration-based method for inexpensive and selective separation of Mg2+ and Ca2+ ions from seawater, for improving the quality of soft and desalinated waters. Separation and Purification Technology, 2016, 166, 83-91.	3.9	21
10	Replenishing Mg(II) to desalinated water by seawater nanofiltration followed by magnetic separation of Mg(OH)_{2(s)}Fe₃O₄particles. Desalination and Water Treatment, 2016, 57, 19903-19916.	1.0	11
11	Modelling Heavy Metal Contamination Events in Water Distribution Systems. Procedia Engineering, 2015, 119, 328-336.	1.2	7
12	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
13	A new algorithm for design, operation and cost assessment of struvite (MgNH4PO4) precipitation processes. Environmental Technology (United Kingdom), 2015, 36, 1892-1901.	1.2	14
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	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
16	Design aspects of calcite-dissolution reactors applied for post treatment of desalinated water. Desalination, 2013, 314, 1-9.	4.0	23
17	Accurate approach for determining fresh-water carbonate (H2CO3âŽ) alkalinity, using a single H3PO4 titration point. Talanta, 2012, 100, 12-20.	2.9	3
18	A novel approach for SWRO desalination plants operation, comprising single pass boron removal and reuse of CO2 in the post treatment step. Chemical Engineering Journal, 2012, 187, 275-282.	6.6	23

#	Article	IF	Citations
19	A different approach for brackish-water desalination, comprising acidification of the feed-water and CO2(aq) reuse for alkalinity, Ca2+ and Mg2+ supply in the post treatment stage. Separation and Purification Technology, 2012, 89, 252-260.	3.9	12
20	Selective separation of seawater Mg2+ ions for use in downstream water treatment processes. Chemical Engineering Journal, 2011, 175, 136-143.	6.6	50
21	Fundamental chemistry and engineering aspects of post-treatment processes for desalinated waterâ€"A review. Desalination, 2011, 273, 6-22.	4.0	91
22	Development of an additional step to current CO2-based CaCO3(s) dissolution post-treatment processes for cost-effective Mg2+ supply to desalinated water. Chemical Engineering Journal, 2010, 160, 48-56.	6.6	16
23	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
24	Pilot scale evaluation of a novel post-treatment process for desalinated water. Desalination and Water Treatment, 2010, 13, 128-136.	1.0	13
25	Potential applications of quarry dolomite for post treatment of desalinated water. Desalination and Water Treatment, 2009, 1, 58-67.	1.0	31
26	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
27	A new post-treatment process for attaining Ca2+, Mg2+, SO42â" and alkalinity criteria in desalinated water. Water Research, 2007, 41, 3989-3997.	5.3	56
28	Quality criteria for desalinated water following post-treatment. Desalination, 2007, 207, 286-303.	4.0	87
29	Dolomite dissolution is not an attractive alternative for meeting Ca2+, Mg2+ and alkalinity criteria in desalination plantsâ€™ post treatment step. , 0, 115, 194-198.		5