

# Ori Lahav

## List of Publications by Year in descending order

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109  
papers

3,715  
citations

159525

30  
h-index

143943

57  
g-index

110  
all docs

110  
docs citations

110  
times ranked

4061  
citing authors

#	ARTICLE	IF	CITATIONS
1	On-board zero-discharge water treatment unit for well-boats: Arctic char as a case study. <i>Journal of Applied Aquaculture</i> , 2022, 34, 953-968.	0.7	3
2	Determining the kinetic constants leading to mineralization of dilute carbamazepine and estradiol-containing solutions under continuous supercritical water oxidation conditions. <i>Journal of Hazardous Materials</i> , 2022, 422, 126797.	6.5	4
3	Removal of contaminants of emerging concern from secondary-effluent reverse osmosis retentates by continuous supercritical water oxidation- parametric study and conceptual design. <i>Journal of Hazardous Materials</i> , 2022, 437, 129379.	6.5	3
4	Synthesis and characterization of zinc-hexacyanoferrate composite beads for controlling the ammonia concentration in low-temperature live seafood transports. <i>Water Research</i> , 2021, 203, 117551.	5.3	6
5	A pre-treatment concept for increasing the recovery ratio of coastline BWRO plants, while providing Mg <sup>2+</sup> in the product water. <i>Desalination</i> , 2021, 515, 115202.	4.0	7
6	Desalinated brackish water with improved mineral composition using monovalent-selective nanofiltration followed by reverse osmosis. <i>Desalination</i> , 2021, 520, 115364.	4.0	23
7	Decreasing Seawater Desalination Footprint by Integrating Bipolar-Membrane Electrodialysis in a Single-Pass Reverse Osmosis Scheme. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16232-16240.	3.2	6
8	Dia-nanofiltration-electrodialysis hybrid process for selective removal of monovalent ions from Mg <sup>2+</sup> rich brines. <i>Desalination</i> , 2020, 481, 114357.	4.0	17
9	Proof of concept of a new technology for prolonged high-density live shellfish transportation: Brown crab as a case study. <i>Food Control</i> , 2020, 114, 107239.	2.8	12
10	Rehabilitation of Water Distribution Systems following a Cadmium Contamination Intrusion” A Solution Based on Water Quality and Water Distribution Systems Modeling. , 2019, , .		1
11	Acidification and decarbonization in seawater: Potential pretreatment steps for biofouling control in SWRO membranes. <i>Desalination</i> , 2019, 467, 86-94.	4.0	5
12	Chlorine-based disinfection for controlling horizontal transmission of VNN in a seawater recirculating aquaculture system growing European seabass. <i>Aquaculture</i> , 2019, 510, 329-336.	1.7	17
13	A membrane-based recycling process for minimizing environmental effects inflicted by ion-exchange softening applications. <i>Separation and Purification Technology</i> , 2019, 223, 24-30.	3.9	17
14	Minimization of THM formation in seawater-fed recirculating aquaculture systems operated with electrochemical NH <sub>4</sub> <sup>+</sup> removal. <i>Aquaculture</i> , 2019, 502, 162-175.	1.7	10
15	Selective separation of divalent ions from seawater using an integrated ion-exchange/nanofiltration approach. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 126, 8-15.	1.8	24
16	Separation of divalent and monovalent ions using flow-electrode capacitive deionization with nanofiltration membranes. <i>Desalination</i> , 2018, 425, 123-129.	4.0	65
17	Implementation, Design and Cost Assessment of a Membrane-Based Process for Selectively Enriching Desalinated Water with Divalent Seawater Ions. <i>ChemEngineering</i> , 2018, 2, 41.	1.0	8
18	Post-Treatment of Desalinated Water”Chemistry, Design, Engineering, and Implementation. , 2018, , 305-350.		5

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19	Intensification and energy minimization of seawater reverse osmosis desalination through high-pH operation: Temperature dependency and second pass implications. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 131, 84-91.	1.8	11
20	A new thermal-reduction-based approach for producing Mg from seawater. <i>Hydrometallurgy</i> , 2017, 169, 520-533.	1.8	12
21	Cost-effective treatment of swine wastes through recovery of energy and nutrients. <i>Waste Management</i> , 2017, 69, 508-517.	3.7	28
22	Highly-selective separation of divalent ions from seawater and seawater RO retentate. <i>Separation and Purification Technology</i> , 2017, 175, 460-468.	3.9	27
23	Removal of Nitrate from Drinking Water by Ion-Exchange Followed by nZVI-Based Reduction and Electrooxidation of the Ammonia Product to N <sub>2</sub> (g). <i>ChemEngineering</i> , 2017, 1, 2.	1.0	8
24	Electrooxidation for simultaneous ammonia control and disinfection in seawater recirculating aquaculture systems. <i>Aquacultural Engineering</i> , 2016, 72-73, 77-87.	1.4	28
25	DiaNanofiltration-based method for inexpensive and selective separation of Mg <sup>2+</sup> and Ca <sup>2+</sup> ions from seawater, for improving the quality of soft and desalinated waters. <i>Separation and Purification Technology</i> , 2016, 166, 83-91.	3.9	21
26	Replenishing Mg(II) to desalinated water by seawater nanofiltration followed by magnetic separation of Mg(OH) <sub>2</sub> (s) particles. <i>Desalination and Water Treatment</i> , 2016, 57, 19903-19916.	1.0	11
27	Acid-base dynamics in seawater reverse osmosis: experimental evaluation of a reactive transport algorithm. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 107-116.	1.2	12
28	Selective nitrate removal from groundwater using a hybrid nanofiltration-reverse osmosis filtration scheme. <i>Chemical Engineering Journal</i> , 2015, 279, 372-378.	6.6	192
29	Optimal Sensors Location Using Contamination Detailed Chemistry Reactions. , 2015, , .		0
30	Modelling Heavy Metal Contamination Events in Water Distribution Systems. <i>Procedia Engineering</i> , 2015, 119, 328-336.	1.2	7
31	Reducing the specific energy consumption of 1st-pass SWRO by application of high-flux membranes fed with high-pH, decarbonated seawater. <i>Water Research</i> , 2015, 85, 185-192.	5.3	17
32	Direct measurement of the boron isotope fractionation factor: Reducing the uncertainty in reconstructing ocean paleo-pH. <i>Earth and Planetary Science Letters</i> , 2015, 414, 1-5.	1.8	66
33	Optimal sensor placement for detecting organophosphate intrusions into water distribution systems. <i>Water Research</i> , 2015, 73, 193-203.	5.3	37
34	Single SWRO Pass Boron Removal at High pH. , 2015, , 297-323.		1
35	Predicting the Rejection of Major Seawater Ions by Spiral-Wound Nanofiltration Membranes. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8631-8638.	4.6	35
36	Treatment of Nitrate-Rich Saline Effluent by Using Citrate-Rich Waste as Carbon Source and Electron Donor in a Single-Stage Activated Sludge Reactor. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	8

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37	A new algorithm for design, operation and cost assessment of struvite (MgNH <sub>4</sub> PO <sub>4</sub> ) precipitation processes. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 1892-1901.	1.2	14
38	Modeling pH variation in reverse osmosis. <i>Water Research</i> , 2015, 87, 328-335.	5.3	28
39	Potential applications of indirect electrochemical ammonia oxidation within the operation of freshwater and saline-water recirculating aquaculture systems. <i>Aquacultural Engineering</i> , 2015, 65, 55-64.	1.4	25
40	Establishment of the Underlying Rationale and Description of a Cheap Nanofiltration-Based Method for Supplementing Desalinated Water with Magnesium Ions. <i>Water (Switzerland)</i> , 2014, 6, 1172-1186.	1.2	20
41	Integrated hydraulic and organophosphate pesticide injection simulations for enhancing event detection in water distribution systems. <i>Water Research</i> , 2014, 63, 271-284.	5.3	31
42	A procedure for adjusting Grey mullet ( <i>Mugil cephalus</i> Lin.) fingerlings to low-salinity, low-hardness waters for economic and environmentally friendly inland culture. <i>Aquacultural Engineering</i> , 2014, 59, 55-63.	1.4	1
43	Modeling weak acids' reactive transport in reverse osmosis processes: A general framework and case studies for SWRO. <i>Desalination</i> , 2014, 343, 147-153.	4.0	6
44	Accurate and self-consistent procedure for determining pH in seawater desalination brines and its manifestation in reverse osmosis modeling. <i>Water Research</i> , 2014, 64, 187-195.	5.3	22
45	Radium and Barium Removal through Blending Hydraulic Fracturing Fluids with Acid Mine Drainage. <i>Environmental Science &amp; Technology</i> , 2014, 48, 1334-1342.	4.6	82
46	Recovery of high-purity magnesium solutions from RO brines by adsorption of Mg(OH) <sub>2</sub> (s) on Fe <sub>3</sub> O <sub>4</sub> micro-particles and magnetic solids separation. <i>Chemical Engineering Journal</i> , 2014, 235, 37-45.	6.6	32
47	Effects of sub-lethal CO <sub>2</sub> (aq) concentrations on the performance of intensively reared gilthead seabream ( <i>Sparus aurata</i> ) in brackish water: Flow-through experiments and full-scale RAS results. <i>Aquacultural Engineering</i> , 2013, 56, 18-25.	1.4	12
48	Struvite recovery from municipal-wastewater sludge centrifuge supernatant using seawater NF concentrate as a cheap Mg(II) source. <i>Separation and Purification Technology</i> , 2013, 108, 103-110.	3.9	152
49	A new, energy-efficient approach for boron removal from SWRO plants. <i>Desalination and Water Treatment</i> , 2013, 51, 1651-1656.	1.0	5
50	A novel approach for ammonia removal from fresh-water recirculated aquaculture systems, comprising ion exchange and electrochemical regeneration. <i>Aquacultural Engineering</i> , 2013, 52, 27-38.	1.4	52
51	Design aspects of calcite-dissolution reactors applied for post treatment of desalinated water. <i>Desalination</i> , 2013, 314, 1-9.	4.0	23
52	Coupling mass transport and chemical equilibrium models for improving the prediction of SWRO permeate boron concentrations. <i>Desalination</i> , 2013, 310, 87-92.	4.0	19
53	Sustainable removal of ammonia from anaerobic-lagoon swine waste effluents using an electrochemically-regenerated ion exchange process. <i>Chemical Engineering Journal</i> , 2013, 218, 214-222.	6.6	62
54	Accurate approach for determining fresh-water carbonate (H <sub>2</sub> CO <sub>3</sub> *) alkalinity, using a single H <sub>3</sub> PO <sub>4</sub> titration point. <i>Talanta</i> , 2012, 100, 12-20.	2.9	3

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55	A novel approach for SWRO desalination plants operation, comprising single pass boron removal and reuse of CO <sub>2</sub> in the post treatment step. <i>Chemical Engineering Journal</i> , 2012, 187, 275-282.	6.6	23
56	Revealing the mechanism of indirect ammonia electrooxidation. <i>Electrochimica Acta</i> , 2012, 63, 209-219.	2.6	89
57	A different approach for brackish-water desalination, comprising acidification of the feed-water and CO <sub>2</sub> (aq) reuse for alkalinity, Ca <sup>2+</sup> and Mg <sup>2+</sup> supply in the post treatment stage. <i>Separation and Purification Technology</i> , 2012, 89, 252-260.	3.9	12
58	Chemical Water Stability in Optimal Operation of Water Distribution Systems with Blended Desalinated Water. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 531-541.	1.3	7
59	Chemical Stability Inclusion in Optimizing the Operation of Water Networks. , 2011, , .		1
60	Chemical stability and extent of isomorphous substitution in ferrites precipitated under ambient temperatures. <i>Journal of Hazardous Materials</i> , 2011, 193, 59-64.	6.5	18
61	Formation and minimization of bromate ions within non-thermal-plasma advanced oxidation. <i>Desalination</i> , 2011, 280, 273-280.	4.0	10
62	Selective separation of seawater Mg <sup>2+</sup> ions for use in downstream water treatment processes. <i>Chemical Engineering Journal</i> , 2011, 175, 136-143.	6.6	50
63	Fundamental chemistry and engineering aspects of post-treatment processes for desalinated water – A review. <i>Desalination</i> , 2011, 273, 6-22.	4.0	91
64	Extent and mechanism of metal ion incorporation into precipitated ferrites. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 129-135.	5.0	10
65	Potential drawbacks associated with agricultural irrigation with treated wastewaters from desalinated water origin and possible remedies. <i>Water Science and Technology</i> , 2010, 61, 2451-2460.	1.2	30
66	A new approach to increasing the efficiency of low-pH Fe-electrocoagulation applications. <i>Journal of Hazardous Materials</i> , 2010, 183, 596-601.	6.5	25
67	Development of an additional step to current CO <sub>2</sub> -based CaCO <sub>3</sub> (s) dissolution post-treatment processes for cost-effective Mg <sup>2+</sup> supply to desalinated water. <i>Chemical Engineering Journal</i> , 2010, 160, 48-56.	6.6	16
68	A cost effective method for improving the quality of inland desalinated brackish water destined for agricultural irrigation. <i>Desalination</i> , 2010, 262, 152-160.	4.0	24
69	Favorable Operating Conditions for Obtaining High-Value Struvite Product from Sludge Dewatering Filtrate. <i>Environmental Engineering Science</i> , 2010, 27, 733-741.	0.8	16
70	Pilot scale evaluation of a novel post-treatment process for desalinated water. <i>Desalination and Water Treatment</i> , 2010, 13, 128-136.	1.0	13
71	Application of a novel plasma-based advanced oxidation process for efficient and cost-effective destruction of refractory organics in tertiary effluents and contaminated groundwater. <i>Desalination and Water Treatment</i> , 2009, 11, 236-244.	1.0	39
72	Potential effects of desalinated water quality on the operation stability of wastewater treatment plants. <i>Science of the Total Environment</i> , 2009, 407, 2404-2410.	3.9	15

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73	Chemical stability of inline blends of desalinated, surface and ground waters: the need for higher alkalinity values in desalinated water. <i>Desalination</i> , 2009, 239, 334-345.	4.0	19
74	H <sub>2</sub> S(g) Removal Using a Modified, Low-pH Liquid Redox Sulfur Recovery (LRSR) Process with Electrochemical Regeneration of the Fe Catalyst Couple. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8315-8319.	4.6	23
75	Quantification of anammox activity in a denitrification reactor for a recirculating aquaculture system. <i>Aquaculture</i> , 2009, 288, 76-82.	1.7	39
76	Potential applications of quarry dolomite for post treatment of desalinated water. <i>Desalination and Water Treatment</i> , 2009, 1, 58-67.	1.0	31
77	Stable Incorporation of Co <sup>2+</sup> into Ferrite Structure at Ambient Temperature: Effect of Operational Parameters. <i>Water, Air, and Soil Pollution</i> , 2008, 190, 245-257.	1.1	12
78	A New Approach for Minimizing Ammonia Emissions from Poultry Houses. <i>Water, Air, and Soil Pollution</i> , 2008, 191, 183-197.	1.1	25
79	Quality criteria for desalinated water and introduction of a novel, cost effective and advantageous post treatment process. <i>Desalination</i> , 2008, 221, 70-83.	4.0	24
80	A design study on the optimal water refreshment rate in recirculating aquaculture systems. <i>Aquacultural Engineering</i> , 2008, 38, 171-180.	1.4	12
81	Control of sulfide in sewer systems by dosage of iron salts: Comparison between theoretical and experimental results, and practical implications. <i>Science of the Total Environment</i> , 2008, 392, 145-156.	3.9	161
82	Accurate determination of Fe(II) concentrations in the presence of a very high soluble Fe(III) background. <i>Applied Geochemistry</i> , 2008, 23, 2123-2129.	1.4	26
83	Rethinking Desalinated Water Quality and Agriculture. <i>Science</i> , 2007, 318, 920-921.	6.0	196
84	Modeling the Aeration Efficiency of a Passively Aerated Vertical-Flow Biological Filter. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 970-978.	0.7	3
85	Improved Experimental and Computational Methodology for Determining the Kinetic Equation and the Extant Kinetic Constants of Fe(II) Oxidation by <i>Acidithiobacillus ferrooxidans</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 1742-1752.	1.4	22
86	A new post-treatment process for attaining Ca <sup>2+</sup> , Mg <sup>2+</sup> , SO <sub>4</sub> <sup>2-</sup> and alkalinity criteria in desalinated water. <i>Water Research</i> , 2007, 41, 3989-3997.	5.3	56
87	The effect of pH on the kinetics of spontaneous Fe(II) oxidation by O <sub>2</sub> in aqueous solution – basic principles and a simple heuristic description. <i>Chemosphere</i> , 2007, 68, 2080-2084.	4.2	460
88	Quality criteria for desalinated water following post-treatment. <i>Desalination</i> , 2007, 207, 286-303.	4.0	87
89	Intensive fish culture at high ammonium and low pH. <i>Aquaculture</i> , 2006, 255, 301-313.	1.7	48
90	A conceptual, stoichiometry-based model for single-sludge denitrification in recirculating aquaculture systems. <i>Aquaculture</i> , 2006, 259, 328-341.	1.7	37

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91	Development of a single-sludge denitrification method for nitrate removal from RAS effluents: Lab-scale results vs. model prediction. <i>Aquaculture</i> , 2006, 259, 342-353.	1.7	39
92	A different approach for predicting H <sub>2</sub> S(g) emission rates in gravity sewers. <i>Water Research</i> , 2006, 40, 259-266.	5.3	42
93	A Different Approach for Predicting Reaeration Rates in Gravity Sewers and Completely Mixed Tanks. <i>Water Environment Research</i> , 2006, 78, 730-739.	1.3	4
94	Centralised urban wastewater reuse: what is the public attitude?. <i>Water Science and Technology</i> , 2006, 54, 423-430.	1.2	34
95	Study of urban population attitudes towards various wastewater reuse options: Israel as a case study. <i>Journal of Environmental Management</i> , 2006, 81, 360-370.	3.8	97
96	Determination of low citric acid concentrations in a mixture of weak acid/bases. <i>Water S A</i> , 2006, 31, .	0.2	0
97	Closure to "Modeling Hydrogen Sulfide Emission Rates in Gravity Collection Systems" by Ori Lahav, Yue Lu, Uri Shavit, and Richard E. Loewenthal. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 1762-1764.	0.7	0
98	Treatment of Presettled Municipal Wastewater Using a Passively Aerated Vertical Bed. <i>Environmental Engineering Science</i> , 2005, 22, 707-715.	0.8	3
99	Modeling Hydrogen Sulfide Emission Rates in Gravity Sewage Collection Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 1382-1389.	0.7	30
100	The potential of using iron-oxide-rich soils for minimizing the detrimental effects of H <sub>2</sub> S in freshwater aquaculture systems. <i>Aquaculture</i> , 2004, 238, 263-281.	1.7	26
101	One-Step Ambient Temperature Ferrite Process for Treatment of Acid Mine Drainage Waters. <i>Journal of Environmental Engineering, ASCE</i> , 2003, 129, 155-161.	0.7	9
102	A seeded ambient temperature ferrite process for treatment of AMD waters: magnetite formation in the presence and absence of calcium ions under steady state operation. <i>Water S A</i> , 2003, 29, 117.	0.2	10
103	Rapid, Simple, and Accurate Method for Measurement of VFA and Carbonate Alkalinity in Anaerobic Reactors. <i>Environmental Science &amp; Technology</i> , 2002, 36, 2736-2741.	4.6	84
104	Chalk as the carrier for nitrifying biofilm in a fluidized bed reactor. <i>Water Research</i> , 2001, 35, 284-290.	5.3	17
105	Ammonium removal using a novel unsaturated flow biological filter with passive aeration. <i>Water Research</i> , 2001, 35, 397-404.	5.3	39
106	Measurement of pH, alkalinity and acidity in ultra-soft waters. <i>Water S A</i> , 2001, 27, 423.	0.2	14
107	Ammonium removal using ion exchange and biological regeneration. <i>Water Research</i> , 1998, 32, 2019-2028.	5.3	144
108	Temperature-dependent boron permeability through reverse-osmosis membranes: implications for full-scale simulations. , 0, 68, 23-31.		5

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109	Dolomite dissolution is not an attractive alternative for meeting Ca <sup>2+</sup> , Mg <sup>2+</sup> and alkalinity criteria in desalination plants's post treatment step. , 0, 115, 194-198.		5