

# Oded Nir

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8168216/publications.pdf>

Version: 2024-02-01

40  
papers

1,197  
citations

394421

19  
h-index

395702

33  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1695  
citing authors

#	ARTICLE	IF	CITATIONS
1	An advantage for desalination of coastal saline groundwater over seawater in view of boron removal requirements. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 2241-2254.	2.4	7
2	Tracking SARS-CoV-2 RNA through the Wastewater Treatment Process. <i>ACS ES&amp;T Water</i> , 2021, 1, 1161-1167.	4.6	32
3	Instilling Monovalent Selectivity in Cation Exchange Membranes By Molecular Layer Deposition. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1173-1173.	0.0	0
4	Low-resistance monovalent-selective cation exchange membranes prepared using molecular layer deposition for energy-efficient ion separations. <i>RSC Advances</i> , 2021, 11, 2427-2436.	3.6	10
5	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.	6.7	6
6	New compact expressions for concentration-polarization of trace-ions in pressure-driven membrane processes. , 2021, 1, 100003.		9
7	Regressing SARS-CoV-2 Sewage Measurements Onto COVID-19 Burden in the Population: A Proof-of-Concept for Quantitative Environmental Surveillance. <i>Frontiers in Public Health</i> , 2021, 9, 561710.	2.7	73
8	Molecular insight into the interfacial chemical functionalities regulating heterogeneous calcium-arsenate nucleation. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 464-471.	9.4	9
9	Tuning the Ion-Selectivity of Thin-Film Composite Nanofiltration Membranes by Molecular Layer Deposition of Alucone. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53356-53364.	8.0	22
10	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. <i>Nature Sustainability</i> , 2020, 3, 981-990.	23.7	195
11	Electro-Enhanced Membrane Sorption: A New Approach for Selective Ion Separation and Its Application to Phosphate and Arsenic Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 10595-10605.	3.7	10
12	Treatment of acidic wastewater via fluoride ions removal by SiO <sub>2</sub> particles followed by phosphate ions recovery using flow-electrode capacitive deionization. <i>Chemical Engineering Journal</i> , 2020, 400, 125892.	12.7	27
13	Dia-nanofiltration-electrodialysis hybrid process for selective removal of monovalent ions from Mg <sup>2+</sup> rich brines. <i>Desalination</i> , 2020, 481, 114357.	8.2	17
14	Enhancing the Sustainability of Phosphogypsum Recycling by Integrating Electrodialysis with Bipolar Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2490-2497.	6.7	21
15	Ion Transport in Laser-Induced Graphene Cation-Exchange Membrane Hybrids. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1397-1403.	4.6	12
16	Phosphorous recovery from a novel recirculating aquaculture system followed by its sustainable reuse as a fertilizer. <i>Science of the Total Environment</i> , 2020, 722, 137949.	8.0	36
17	Fouling minimization at membranes having a 3D surface topology with microgels as soft model colloids. <i>Journal of Membrane Science</i> , 2019, 569, 7-16.	8.2	28
18	Closing the cycle: Phosphorus removal and recovery from diluted effluents using acid resistive membranes. <i>Chemical Engineering Journal</i> , 2018, 346, 640-648.	12.7	47

#	ARTICLE	IF	CITATIONS
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.	3.6	11
20	Microfiltration of deformable microgels. <i>Soft Matter</i> , 2016, 12, 6512-6517.	2.7	23
21	The presence of ferric iron promotes calcium sulphate scaling in reverse osmosis processes. <i>Desalination</i> , 2016, 393, 115-119.	8.2	25
22	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.	2.4	12
23	Selective nitrate removal from groundwater using a hybrid nanofiltration-reverse osmosis filtration scheme. <i>Chemical Engineering Journal</i> , 2015, 279, 372-378.	12.7	192
24	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.	11.3	17
25	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.	4.4	66
26	Single SWRO Pass Boron Removal at High pH. , 2015, , 297-323.		1
27	Predicting the Rejection of Major Seawater Ions by Spiral-Wound Nanofiltration Membranes. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8631-8638.	10.0	35
28	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.	2.2	14
29	Modeling pH variation in reverse osmosis. <i>Water Research</i> , 2015, 87, 328-335.	11.3	28
30	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.	2.7	20
31	Modeling weak acids' reactive transport in reverse osmosis processes: A general framework and case studies for SWRO. <i>Desalination</i> , 2014, 343, 147-153.	8.2	6
32	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.	11.3	22
33	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.	12.7	32
34	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.	3.1	12
35	A new, energy-efficient approach for boron removal from SWRO plants. <i>Desalination and Water Treatment</i> , 2013, 51, 1651-1656.	1.0	5
36	Coupling mass transport and chemical equilibrium models for improving the prediction of SWRO permeate boron concentrations. <i>Desalination</i> , 2013, 310, 87-92.	8.2	19

#	ARTICLE	IF	CITATIONS
37	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.	12.7	23
38	Temperature-dependent boron permeability through reverse-osmosis membranes: implications for full-scale simulations. , 0, 68, 23-31.		5
39	When does commercial software fail in predicting scaling tendency in reverse osmosis and what can we do better?. , 0, 131, 34-42.		2
40	Elucidating morphological effects in membrane mineral fouling using real-time particle imaging and impedance spectroscopy. Environmental Science: Water Research and Technology, 0, , .	2.4	1