

Yoram Cohen

List of Publications by Year in descending order

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289
papers

18,345
citations

13865

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16650

123
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all docs

303
docs citations

303
times ranked

18367
citing authors

#	ARTICLE	IF	CITATIONS
1	Fouling resistant and performance tunable ultrafiltration membranes via surface graft polymerization induced by atmospheric pressure air plasma. Separation and Purification Technology, 2022, 286, 120490.	7.9	17
2	Supramolecular catalysis in confined space: making the pyrogallol[4]arene capsule catalytically active in non-competitive solvent. Organic Chemistry Frontiers, 2022, 9, 2453-2463.	4.5	2
3	Scale up of polyamide reverse osmosis membranes surface modification with tethered poly(acrylic) Tj ETQq1 1 0.784314 rgBTg /Overlo	8.2	14
4	Desupersaturation of RO concentrate and gypsum removal via seeded precipitation in a fluidized bed crystallizer. Water Research, 2021, 190, 116766.	11.3	6
5	Hydraulic Resistance and Protein Fouling Resistance of a Zirconia Membrane with a Tethered PVP Layer. Water (Switzerland), 2021, 13, 951.	2.7	6
6	Design Guidelines for Cationic Pillar[n]arenes that Prevent Biofilm Formation by Gram-Positive Pathogens. ACS Infectious Diseases, 2021, 7, 579-585.	3.8	14
7	Tuning the hydraulic permeability and molecular weight cutoff (MWCO) of surface nano-structured ultrafiltration membranes. Journal of Membrane Science, 2021, 629, 119180.	8.2	18
8	Machine Learning Modeling of Water Use Patterns in Small Disadvantaged Communities. Water (Switzerland), 2021, 13, 2312.	2.7	0
9	Modeling UF fouling and backwash in seawater RO feedwater treatment using neural networks with evolutionary algorithm and Bayesian binary classification. Desalination, 2021, 513, 115129.	8.2	11
10	Solution NMR of synthetic cavity containing supramolecular systems: what have we learned on and from?. Chemical Communications, 2021, 57, 8856-8884.	4.1	14
11	Aggregation Mode, Host-Guest Chemistry in Water, and Extraction Capability of an Uncharged, Water-Soluble, Liquid Pillar[5]arene Derivative. ChemistryOpen, 2021, 10, 1111-1115.	1.9	1
12	Constant gradient FEXSY: A time-efficient method for measuring exchange. Journal of Magnetic Resonance, 2020, 311, 106667.	2.1	7
13	Upgrading polyamide TFC BWRO and SWRO membranes to higher SWRO membrane performance via surface nano-structuring with tethered poly(acrylic acid). Journal of Membrane Science, 2020, 597, 117736.	8.2	13
14	Kinetic Stabilities and Exchange Dynamics of Water-Soluble Bis-Formamide Caviplexes Studied Using Diffusion-Ordered NMR Spectroscopy (DOSY). Chemistry - A European Journal, 2020, 26, 8220-8225.	3.3	10
15	NanoSolveIT Project: Driving nanoinformatics research to develop innovative and integrated tools for in silico nanosafety assessment. Computational and Structural Biotechnology Journal, 2020, 18, 583-602.	4.1	74
16	QSAR without borders. Chemical Society Reviews, 2020, 49, 3525-3564.	38.1	427
17	Temperature-Dependent and pH-Responsive Pillar[5]arene-Based Complexes and Hydrogen-Bond-Based Supramolecular Pentagonal Boxes in Water. Chemistry - A European Journal, 2020, 26, 11250-11255.	3.3	7
18	High Exchange Rate Complexes of ¹²⁹ Xe with Water-Soluble Pillar[5]arenes for Adjustable Magnetization Transfer MRI. ChemPhysChem, 2019, 20, 246-251.	2.1	20

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19	Shape induced sorting <i>via</i> rim-to-rim complementarity in the formation of pillar[5,6]arene-based supramolecular organogels. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3348-3354.	4.5	12
20	Toxicity Models: Bayesian Network Resource for Meta-Analysis: Cellular Toxicity of Quantum Dots (Small 34/2019). <i>Small</i> , 2019, 15, 1970181.	10.0	2
21	Single- and double- Diffusion encoding MRI for studying <i>ex vivo</i> apparent axon diameter distribution in spinal cord white matter. <i>NMR in Biomedicine</i> , 2019, 32, e4170.	2.8	12
22	On the feasibility of small communities wellhead RO treatment for nitrate removal and salinity reduction. <i>Journal of Environmental Management</i> , 2019, 250, 109487.	7.8	10
23	Relative hydrophilicities of <i>cis</i> and <i>trans</i> formamides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19815-19820.	7.1	11
24	Bayesian Network Resource for Meta-Analysis: Cellular Toxicity of Quantum Dots. <i>Small</i> , 2019, 15, e1900510.	10.0	35
25	Gypsum scaling propensity in semi-batch RO (SBRO) and steady-state RO with partial recycle (SSRO-PR). <i>Journal of Membrane Science</i> , 2019, 588, 117106.	8.2	23
26	Multi-cycle operation of semi-batch reverse osmosis (SBRO) desalination. <i>Journal of Membrane Science</i> , 2019, 588, 117090.	8.2	30
27	Diffusion NMR for the characterization, in solution, of supramolecular systems based on calixarenes, resorcinarenes, and other macrocyclic arenes. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1705-1718.	4.5	30
28	Surface characterization data for tethered polyacrylic acid layers synthesized on polysulfone surfaces. <i>Data in Brief</i> , 2019, 23, 103747.	1.0	2
29	pH-Responsive Pillar[6]arene-Based Water-Soluble Supramolecular Hexagonal Boxes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5302-5306.	13.8	33
30	Observed Crystallization Induction Time in Seeded Gypsum Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 23359-23365.	3.7	26
31	Flexible reverse osmosis (FLERO) desalination. <i>Desalination</i> , 2019, 452, 123-131.	8.2	13
32	Polysulfone surface nano-structured with tethered polyacrylic acid. <i>Applied Surface Science</i> , 2019, 470, 411-422.	6.1	10
33	Role of CB ₂ Receptor in the Recovery of Mice after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 1836-1846.	3.4	25
34	Fouling indicators for field monitoring the effectiveness of operational strategies of ultrafiltration as pretreatment for seawater desalination. <i>Desalination</i> , 2018, 431, 86-99.	8.2	21
35	Assessment of information availability for environmental impact assessment of engineered nanomaterials. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	1
36	Pillararene-Based Two-Component Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. <i>Chemistry - A European Journal</i> , 2018, 24, 15695-15695.	3.3	1

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37	Pillararene-Based Two-Component Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. <i>Chemistry - A European Journal</i> , 2018, 24, 15750-15755.	3.3	14
38	Tethered hydrophilic polymers layers on a polyamide surface. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46843.	2.6	8
39	Bis-resorcin[4]arene Selectively Forms Hexameric Capsules in Apolar Solvents: Evidence from Diffusion NMR. <i>Organic Letters</i> , 2018, 20, 3958-3961.	4.6	9
40	Real-time direct detection of silica scaling on RO membranes. <i>Journal of Membrane Science</i> , 2017, 528, 346-358.	8.2	43
41	Bayesian network as a support tool for rapid query of the environmental multimedia distribution of nanomaterials. <i>Nanoscale</i> , 2017, 9, 4162-4174.	5.6	8
42	A perspective on reverse osmosis water desalination: Quest for sustainability. <i>AIChE Journal</i> , 2017, 63, 1771-1784.	3.6	70
43	Calix[4, 5]tetrolarenes: A New Family of Macrocycles. <i>Organic Letters</i> , 2017, 19, 3719-3722.	4.6	15
44	Diffusion MRI of the spinal cord: from structural studies to pathology. <i>NMR in Biomedicine</i> , 2017, 30, e3592.	2.8	32
45	Evaluation of osmotic energy extraction via FEM modeling and exploration of PRO operational parameter space. <i>Desalination</i> , 2017, 401, 120-133.	8.2	4
46	Self-adaptive cycle-to-cycle control of in-line coagulant dosing in ultrafiltration for pre-treatment of reverse osmosis feed water. <i>Desalination</i> , 2017, 401, 22-31.	8.2	23
47	Needs and challenges for assessing the environmental impacts of engineered nanomaterials (ENMs). <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 989-1014.	2.8	34
48	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. <i>Environmental Science & Technology</i> , 2016, 50, 6124-6145.	10.0	191
49	Phosphonium pillar[5]arenes as a new class of efficient biofilm inhibitors: importance of charge cooperativity and the pillar platform. <i>Chemical Communications</i> , 2016, 52, 10656-10659.	4.1	51
50	Conventions and nomenclature for double diffusion encoding NMR and MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 82-87.	3.0	154
51	Ultrafiltration with self-generated RO concentrate pulse backwash in a novel integrated seawater desalination UF-RO system. <i>Journal of Membrane Science</i> , 2016, 520, 111-119.	8.2	19
52	Performance and Economic Evaluation of a Semibatch Vertical-Flow Wetland for Onsite Residential Bathroom Graywater Treatment. <i>Journal - American Water Works Association</i> , 2016, 108, E392.	0.3	2
53	Hexameric Capsules Studied by Magic Angle Spinning Solid-State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 904-907.	13.8	16
54	Novel design and operational control of integrated ultrafiltration " Reverse osmosis system with RO concentrate backwash. <i>Desalination</i> , 2016, 382, 43-52.	8.2	36

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55	Cationic Pillararenes Potently Inhibit Biofilm Formation without Affecting Bacterial Growth and Viability. <i>Journal of the American Chemical Society</i> , 2016, 138, 754-757.	13.7	180
56	Encapsulated or Not Encapsulated? Ammonium Salts Can Be Encapsulated in Hexameric Capsules of Pyrogallol[4]arene. <i>Organic Letters</i> , 2016, 18, 936-939.	4.6	18
57	Pore sizes and directionality in microcapillaries from angular double-pulsed-field-gradient NMR. <i>Microporous and Mesoporous Materials</i> , 2016, 225, 105-115.	4.4	2
58	Meta-analysis of cellular toxicity for cadmium-containing quantum dots. <i>Nature Nanotechnology</i> , 2016, 11, 479-486.	31.5	393
59	An Integrated approach for characterization of polyamide reverse osmosis membrane degradation due to exposure to free chlorine. <i>Journal of Membrane Science</i> , 2016, 510, 164-173.	8.2	56
60	Costâ€“Benefit Analysis of Onsite Residential Graywater Recycling: A Case Study on the City of Los Angeles. <i>Journal - American Water Works Association</i> , 2015, 107, E436.	0.3	16
61	Microstructural information from angular doubleâ€“pulsedâ€“fieldâ€“gradient NMR: From model systems to nerves. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 25-32.	3.0	11
62	Analysis of soil bacteria susceptibility to manufactured nanoparticles via data visualization. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1635-1651.	2.8	7
63	Nanoinformatics for environmental health and biomedicine. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2449-2451.	2.8	7
64	Simulation tool for assessing the release and environmental distribution of nanomaterials. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 938-951.	2.8	35
65	Effect of hydration repulsion on nanoparticle agglomeration evaluated via a constant number Monteâ€“Carlo simulation. <i>Nanotechnology</i> , 2015, 26, 045708.	2.6	18
66	Toxicity of Metal Oxide Nanoparticles in <i>Escherichia coli</i> Correlates with Conduction Band and Hydration Energies. <i>Environmental Science & Technology</i> , 2015, 49, 1105-1112.	10.0	127
67	Pulsed marker method for real-time detection of reverse osmosis membrane integrity loss. <i>Desalination</i> , 2015, 370, 25-32.	8.2	16
68	Cu Nanoparticles Have Different Impacts in <i>Escherichia coli</i> and <i>Lactobacillus brevis</i> than Their Microsized and Ionic Analogues. <i>ACS Nano</i> , 2015, 9, 7215-7225.	14.6	120
69	Feasibility of a semi-batch vertical-flow wetland for onsite residential graywater treatment. <i>Ecological Engineering</i> , 2015, 82, 311-322.	3.6	16
70	Early brain magnetic resonance imaging can predict short and long-term outcomes after organophosphate poisoning in a rat model. <i>NeuroToxicology</i> , 2015, 48, 206-216.	3.0	16
71	Nanomaterial Categorization for Assessing Risk Potential To Facilitate Regulatory Decision-Making. <i>ACS Nano</i> , 2015, 9, 3409-3417.	14.6	129
72	Prediction of nanoparticles-cell association based on corona proteins and physicochemical properties. <i>Nanoscale</i> , 2015, 7, 9664-9675.	5.6	118

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73	On the analysis of FO mass transfer resistances via CFD analysis and film theory. <i>Journal of Membrane Science</i> , 2015, 495, 198-205.	8.2	24
74	Evaluation of Toxicity Ranking for Metal Oxide Nanoparticles <i>via</i> an <i>in Vitro</i> Dosimetry Model. <i>ACS Nano</i> , 2015, 9, 9303-9313.	14.6	65
75	Quantitative Structure-Activity Relationships for Cellular Uptake of Surface-Modified Nanoparticles. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2015, 18, 365-375.	1.1	10
76	Wettability of terminally anchored polymer brush layers on a polyamide surface. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 286-295.	9.4	19
77	Visual data exploration of soil bacteria susceptible to engineered nanomaterials. , 2014, , .		0
78	Protein Corona Fingerprinting Predicts the Cellular Interaction of Gold and Silver Nanoparticles. <i>ACS Nano</i> , 2014, 8, 2439-2455.	14.6	693
79	Toxicity Mechanisms in <i>Escherichia coli</i> Vary for Silver Nanoparticles and Differ from Ionic Silver. <i>ACS Nano</i> , 2014, 8, 374-386.	14.6	458
80	Removal of Metal Oxide Nanoparticles from Aqueous Suspensions. <i>Separation Science and Technology</i> , 2014, 49, 161-170.	2.5	13
81	Association rule mining of cellular responses induced by metal and metal oxide nanoparticles. <i>Analyst, The</i> , 2014, 139, 943-953.	3.5	26
82	Fault Detection and Isolation in a Spiral-Wound Reverse Osmosis (RO) Desalination Plant. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3257-3271.	3.7	3
83	Multimedia Environmental Distribution of Engineered Nanomaterials. <i>Environmental Science & Technology</i> , 2014, 48, 3281-3292.	10.0	192
84	Energy-Optimal Control of RO Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 7409-7420.	3.7	25
85	Analysis of forward osmosis desalination via two-dimensional FEM model. <i>Journal of Membrane Science</i> , 2014, 464, 161-172.	8.2	57
86	Regional multimedia distribution of nanomaterials and associated exposures: A software platform. , 2014, , .		2
87	Membrane Desalination of Agricultural Drainage Water. <i>Global Issues in Water Policy</i> , 2014, , 303-341.	0.1	3
88	Biofouling and cleaning effectiveness of surface nanostructured reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2013, 446, 472-481.	8.2	58
89	Data-driven models of steady state and transient operations of spiral-wound RO plant. <i>Desalination</i> , 2013, 316, 154-161.	8.2	16
90	Evaluation of chemically-enhanced seeded precipitation of RO concentrate for high recovery desalting of high salinity brackish water. <i>Desalination</i> , 2013, 317, 116-126.	8.2	41

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91	Quantitative Structure-Activity-Relationships for cellular uptake of nanoparticles. , 2013, , .		1
92	HDAT: web-based high-throughput screening data analysis tools. Computational Science & Discovery, 2013, 6, 014006.	1.5	12
93	<i>In Silico</i> Analysis of Nanomaterials Hazard and Risk. Accounts of Chemical Research, 2013, 46, 802-812.	15.6	73
94	Rapid field assessment of RO desalination of brackish agricultural drainage water. Water Research, 2013, 47, 2649-2660.	11.3	25
95	Magnetic nanoparticles-based diagnostics and theranostics. Current Opinion in Biotechnology, 2013, 24, 672-681.	6.6	44
96	Nano- <i>SAR</i> Development for Bioactivity of Nanoparticles with Considerations of Decision Boundaries. Small, 2013, 9, 1842-1852.	10.0	75
97	Implementation of a Multidisciplinary Approach to Solve Complex Nano EHS Problems by the UC Center for the Environmental Implications of Nanotechnology. Small, 2013, 9, 1428-1443.	10.0	32
98	Development of structure-activity relationship for metal oxide nanoparticles. Nanoscale, 2013, 5, 5644.	5.6	120
99	Self-adaptive feed flow reversal operation of reverse osmosis desalination. Desalination, 2013, 308, 63-72.	8.2	53
100	Nanoinformatics workshop report: current resources, community needs and the proposal of a collaborative framework for data sharing and information integration. Computational Science & Discovery, 2013, 6, 014008.	1.5	9
101	Critical Review: Regulatory Incentives and Impediments for Onsite Graywater Reuse in the United States. Water Environment Research, 2013, 85, 650-662.	2.7	52
102	Shemesh, Westin, and Cohen Reply:. Physical Review Letters, 2013, 110, 109802.	7.8	1
103	Pilot-testing of electrolysis for bromide removal from drinking water. Journal - American Water Works Association, 2013, 105, E299.	0.3	1
104	Magnetic Resonance Imaging by Synergistic Diffusion-Diffraction Patterns. Physical Review Letters, 2012, 108, 058103.	7.8	36
105	Antiscalant removal in accelerated desupersaturation of RO concentrate via chemically-enhanced seeded precipitation (CESP). Water Research, 2012, 46, 4261-4271.	11.3	37
106	RO membrane mineral scaling in the presence of a biofilm. Journal of Membrane Science, 2012, 415-416, 181-191.	8.2	57
107	Mapping apparent eccentricity and residual ensemble anisotropy in the gray matter using angular double-pulsed-field-gradient MRI. Magnetic Resonance in Medicine, 2012, 68, spcone-spcone.	3.0	0
108	Automated Phenotype Recognition for Zebrafish Embryo Based In Vivo High Throughput Toxicity Screening of Engineered Nano-Materials. PLoS ONE, 2012, 7, e35014.	2.5	50

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109	Use of Metal Oxide Nanoparticle Band Gap To Develop a Predictive Paradigm for Oxidative Stress and Acute Pulmonary Inflammation. <i>ACS Nano</i> , 2012, 6, 4349-4368.	14.6	718
110	Enhancement of reverse osmosis water recovery using interstage calcium precipitation. <i>Desalination</i> , 2012, 295, 43-52.	8.2	36
111	Probing Microscopic Architecture of Opaque Heterogeneous Systems Using Double-Pulsed-Field-Gradient NMR. <i>Journal of the American Chemical Society</i> , 2011, 133, 6028-6035.	13.7	50
112	Differential Expression of Syndecan-1 Mediates Cationic Nanoparticle Toxicity in Undifferentiated versus Differentiated Normal Human Bronchial Epithelial Cells. <i>ACS Nano</i> , 2011, 5, 2756-2769.	14.6	86
113	No time to lose—high throughput screening to assess nanomaterial safety. <i>Nanoscale</i> , 2011, 3, 1345.	5.6	153
114	Self-Organizing Map Analysis of Toxicity-Related Cell Signaling Pathways for Metal and Metal Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2011, 45, 1695-1702.	10.0	80
115	Analysis of Nanoparticle Agglomeration in Aqueous Suspensions via Constant-Number Monte Carlo Simulation. <i>Environmental Science & Technology</i> , 2011, 45, 9284-9292.	10.0	112
116	Use of a High-Throughput Screening Approach Coupled with <i>In Vivo</i> Zebrafish Embryo Screening To Develop Hazard Ranking for Engineered Nanomaterials. <i>ACS Nano</i> , 2011, 5, 1805-1817.	14.6	306
117	Classification NanoSAR Development for Cytotoxicity of Metal Oxide Nanoparticles. <i>Small</i> , 2011, 7, 1118-1126.	10.0	156
118	Anion-Assisted Supramolecular Polymerization: From Achiral AB ₂ -Type Monomers to Chiral Assemblies. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11956-11961.	13.8	60
119	Mineral scale monitoring for reverse osmosis desalination via real-time membrane surface image analysis. <i>Desalination</i> , 2011, 273, 64-71.	8.2	61
120	Process evaluation of intermediate chemical demineralization for water recovery enhancement in production-scale brackish water desalting. <i>Desalination</i> , 2011, 272, 36-45.	8.2	62
121	David Hasson special issue of desalination. <i>Desalination</i> , 2011, 273, 1.	8.2	0
122	QCM study of mineral surface crystallization on aromatic polyamide membrane surfaces. <i>Journal of Membrane Science</i> , 2011, 379, 426-433.	8.2	31
123	Crystallization of calcium sulfate on polymeric surfaces. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 790-797.	9.4	61
124	UNSUPERVISED FEATURE SELECTION USING INCREMENTAL LEAST SQUARES. <i>International Journal of Information Technology and Decision Making</i> , 2011, 10, 967-987.	3.9	19
125	A method for evaluating antiscalant retardation of crystal nucleation and growth on RO membranes. <i>Journal of Membrane Science</i> , 2010, 364, 122-131.	8.2	65
126	Encapsulated or Not Encapsulated? Mapping Alcohol Sites in Hexameric Capsules of Resorcin[4]arenes in Solution by Diffusion NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 428-431.	13.8	52

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127	Surface nano-structuring of reverse osmosis membranes via atmospheric pressure plasma-induced graft polymerization for reduction of mineral scaling propensity. <i>Journal of Membrane Science</i> , 2010, 354, 142-149.	8.2	78
128	Minimizing energy consumption in reverse osmosis membrane desalination using optimization-based control. <i>Journal of Process Control</i> , 2010, 20, 1261-1269.	3.3	74
129	Feasibility of reverse osmosis desalination of brackish agricultural drainage water in the San Joaquin Valley. <i>Desalination</i> , 2010, 261, 240-250.	8.2	53
130	Accelerated desupersaturation of reverse osmosis concentrate by chemically-enhanced seeded precipitation. <i>Desalination</i> , 2010, 264, 256-267.	8.2	79
131	Effect of Stream Mixing on RO Energy Cost Minimization. <i>Desalination</i> , 2010, 261, 232-239.	8.2	15
132	Inâ€“out interactions of different guests with the hexameric capsule of resorcin[4]arene. <i>Supramolecular Chemistry</i> , 2010, 22, 803-807.	1.2	21
133	Minimizing energy consumption in reverse osmosis membrane desalination using optimization-based control. , 2010, , .		2
134	A tribute to Sidney Loeb â€”The pioneer of reverse osmosis desalination research. <i>Desalination and Water Treatment</i> , 2010, 15, 222-227.	1.0	7
135	Detecting diffusion-diffraction patterns in size distribution phantoms using double-pulsed field gradient NMR: Theory and experiments. <i>Journal of Chemical Physics</i> , 2010, 132, 034703.	3.0	65
136	Noninvasive bipolar double-pulsed-field-gradient NMR reveals signatures for pore size and shape in polydisperse, randomly oriented, inhomogeneous porous media. <i>Journal of Chemical Physics</i> , 2010, 133, 044705.	3.0	71
137	Reverse osmosis desalination with high permeability membranes â€” Cost optimization and research needs. <i>Desalination and Water Treatment</i> , 2010, 15, 256-266.	1.0	84
138	Polymer surface nano-structuring of reverse osmosis membranes for fouling resistance and improved flux performance. <i>Journal of Materials Chemistry</i> , 2010, 20, 4642.	6.7	116
139	Chapter 10 Concentrate Treatment for Inland Desalting. <i>Sustainability Science and Engineering</i> , 2010, 2, 295-326.	0.6	26
140	Model predictive control of feed flow reversal in a reverse osmosis desalination process. , 2009, , .		8
141	Possible neuroprotective effect of brimonidine in a mouse model of ischaemic optic neuropathy. <i>Clinical and Experimental Ophthalmology</i> , 2009, 37, 718-729.	2.6	27
142	UCLA develops â€”smart' water desalination system. <i>Membrane Technology</i> , 2009, 2009, 8.	0.1	4
143	Reverse atom transfer radical graft polymerization of 4â€“vinylpyridine onto inorganic oxide surfaces. <i>Journal of Applied Polymer Science</i> , 2009, 113, 437-449.	2.6	8
144	Coupled 3-D hydrodynamics and mass transfer analysis of mineral scaling-induced flux decline in a laboratory plate-and-frame reverse osmosis membrane module. <i>Journal of Membrane Science</i> , 2009, 339, 39-48.	8.2	45

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145	Brackish water reverse osmosis (BWRO) operation in feed flow reversal mode using an ex situ scale observation detector (EXSOD). <i>Journal of Membrane Science</i> , 2009, 341, 60-66.	8.2	54
146	Neural network approach for modeling the performance of reverse osmosis membrane desalting. <i>Journal of Membrane Science</i> , 2009, 326, 408-419.	8.2	61
147	Minimization of energy consumption for a two-pass membrane desalination: Effect of energy recovery, membrane rejection and retentate recycling. <i>Journal of Membrane Science</i> , 2009, 339, 126-137.	8.2	95
148	On RO membrane and energy costs and associated incentives for future enhancements of membrane permeability. <i>Journal of Membrane Science</i> , 2009, 344, 1-5.	8.2	101
149	Model-predictive control of feed flow reversal in a reverse osmosis desalination process. <i>Journal of Process Control</i> , 2009, 19, 433-442.	3.3	61
150	The University of California Center for the Environmental Implications of Nanotechnology. <i>Environmental Science & Technology</i> , 2009, 43, 6453-6457.	10.0	67
151	Effect of Thermodynamic Restriction on Energy Cost Optimization of RO Membrane Water Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 6010-6021.	3.7	190
152	Impact of Conventional Water Treatment Coagulants on Mineral Scaling in RO Desalting of Brackish Water. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3126-3135.	3.7	23
153	Energy Consumption Optimization of Reverse Osmosis Membrane Water Desalination Subject to Feed Salinity Fluctuation. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 9581-9589.	3.7	102
154	Nonlinear Model-Based Control of an Experimental Reverse-Osmosis Water Desalination System. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 6126-6136.	3.7	62
155	Nonlinear Model-Based Control of an Experimental Reverse Osmosis Water Desalination System. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 892-897.	0.4	2
156	Energy Consumption Optimization of RO Membrane Desalination Subject to Feed Salinity Fluctuation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 255-260.	0.4	6
157	The effect of the diffusion time and pulse gradient duration ratio on the diffraction pattern and the structural information estimated from q-space diffusion MR: Experiments and simulations. <i>Journal of Magnetic Resonance</i> , 2008, 194, 230-236.	2.1	65
158	Three-dimensional water diffusion in impermeable cylindrical tubes: theory versus experiments. <i>NMR in Biomedicine</i> , 2008, 21, 888-898.	2.8	44
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