Yoram Cohen

List of Publications by Year
in descending order

289 papers	18,345 citations	13865 67 h-index	16650 123 g-index
303 all docs	303 docs citations	303 times ranked	18367 citing authors

#	Article	IF	Citations
1	Diffusion NMR Spectroscopy in Supramolecular and Combinatorial Chemistry: An Old Parameter?New Insights. Angewandte Chemie - International Edition, 2005, 44, 520-554.	13.8	1,029
2	Use of Metal Oxide Nanoparticle Band Gap To Develop a Predictive Paradigm for Oxidative Stress and Acute Pulmonary Inflammation. ACS Nano, 2012, 6, 4349-4368.	14.6	718
3	Protein Corona Fingerprinting Predicts the Cellular Interaction of Gold and Silver Nanoparticles. ACS Nano, 2014, 8, 2439-2455.	14.6	693
4	A Critical Assessment of Chromium in the Environment. Critical Reviews in Environmental Science and Technology, 1999, 29, 1-46.	12.8	682
5	Toxicity Mechanisms in Escherichia coli Vary for Silver Nanoparticles and Differ from Ionic Silver. ACS Nano, 2014, 8, 374-386.	14.6	458
6	QSAR without borders. Chemical Society Reviews, 2020, 49, 3525-3564.	38.1	427
7	Meta-analysis of cellular toxicity for cadmium-containing quantum dots. Nature Nanotechnology, 2016, 11, 479-486.	31.5	393
8	Use of a High-Throughput Screening Approach Coupled with In Vivo Zebrafish Embryo Screening To Develop Hazard Ranking for Engineered Nanomaterials. ACS Nano, 2011, 5, 1805-1817.	14.6	306
9	Environmental distribution and transformation of mercury compounds. Critical Reviews in Environmental Science and Technology, 1996, 26, 1-43.	12.8	296
10	Highb-value q-space analyzed diffusion-weighted MRS and MRI in neuronal tissues - a technical review. NMR in Biomedicine, 2002, 15, 516-542.	2.8	257
11	Apparent Slip Flow of Polymer Solutions. Journal of Rheology, 1985, 29, 67-102.	2.6	200
12	High recovery membrane desalting of low-salinity brackish water: Integration of accelerated precipitation softening with membrane RO. Journal of Membrane Science, 2007, 289, 123-137.	8.2	197
13	Displacement imaging of spinal cord using q-space diffusion-weighted MRI. Magnetic Resonance in Medicine, 2000, 44, 713-722.	3.0	193
14	Multimedia Environmental Distribution of Engineered Nanomaterials. Environmental Science & Technology, 2014, 48, 3281-3292.	10.0	192
15	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. Environmental Science & Technology, 2016, 50, 6124-6145.	10.0	191
16	Effect of Thermodynamic Restriction on Energy Cost Optimization of RO Membrane Water Desalination. Industrial & Engineering Chemistry Research, 2009, 48, 6010-6021.	3.7	190
17	Self-Recognition, Structure, Stability, and Guest Affinity of Pyrogallol[4]arene and Resorcin[4]arene Capsules in Solution. Journal of the American Chemical Society, 2004, 126, 11556-11563.	13.7	185
18	Morphometric characterization of calcium sulfate dihydrate (gypsum) scale on reverse osmosis membranes. Journal of Membrane Science, 2005, 252, 253-263.	8.2	183

#	Article	IF	Citations
19	Wall effects in laminar flow of fluids through packed beds. AICHE Journal, 1981, 27, 705-715.	3.6	182
20	Cationic Pillararenes Potently Inhibit Biofilm Formation without Affecting Bacterial Growth and Viability. Journal of the American Chemical Society, 2016, 138, 754-757.	13.7	180
21	Assignment of the water slow-diffusing component in the central nervous system using q-space diffusion MRS: Implications for fiber tract imaging. Magnetic Resonance in Medicine, 2000, 43, 191-199.	3.0	177
22	Atmospheric hydrogen peroxide. Environmental Science & Technology, 1990, 24, 1452-1462.	10.0	167
23	Classification NanoSAR Development for Cytotoxicity of Metal Oxide Nanoparticles. Small, 2011, 7, 1118-1126.	10.0	156
24	Conventions and nomenclature for double diffusion encoding NMR and MRI. Magnetic Resonance in Medicine, 2016, 75, 82-87.	3.0	154
25	No time to loseâ€"high throughput screening to assess nanomaterial safety. Nanoscale, 2011, 3, 1345.	5.6	153
26	Effect of Interparticle Electrostatic Double Layer Interactions on Permeate Flux Decline in Crossflow Membrane Filtration of Colloidal Suspensions: An Experimental Investigation. Journal of Colloid and Interface Science, 1998, 204, 77-86.	9.4	152
27	High-recovery reverse osmosis desalination using intermediate chemical demineralization. Journal of Membrane Science, 2007, 301, 131-141.	8.2	150
28	Diagnostic characterization of gypsum scale formation and control in RO membrane desalination of brackish water. Journal of Membrane Science, 2006, 279, 655-668.	8.2	146
29	Resorcinarenes are hexameric capsules in solution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12296-12300.	7.1	141
30	Multilayer Alkoxysilane Silylation of Oxide Surfaces. Langmuir, 2001, 17, 5882-5888.	3.5	139
31	Contact Angle Study on Polymer-Grafted Silicon Wafers. Journal of Colloid and Interface Science, 2002, 256, 341-350.	9.4	131
32	Nanomaterial Categorization for Assessing Risk Potential To Facilitate Regulatory Decision-Making. ACS Nano, 2015, 9, 3409-3417.	14.6	129
33	Toxicity of Metal Oxide Nanoparticles in Escherichia coli Correlates with Conduction Band and Hydration Energies. Environmental Science & Technology, 2015, 49, 1105-1112.	10.0	127
34	Fouling-resistant ceramic-supported polymer membranes for ultrafiltration of oil-in-water microemulsions. Journal of Membrane Science, 2001, 185, 129-143.	8.2	123
35	Fouling and rejection behavior of ceramic and polymer-modified ceramic membranes for ultrafiltration of oil-in-water emulsions and microemulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 191, 27-40.	4.7	121
36	Development of structureâ€"activity relationship for metal oxide nanoparticles. Nanoscale, 2013, 5, 5644.	5.6	120

#	Article	IF	Citations
37	Cu Nanoparticles Have Different Impacts in Escherichia coli and Lactobacillus brevis than Their Microsized and Ionic Analogues. ACS Nano, 2015, 9, 7215-7225.	14.6	120
38	Prediction of nanoparticles-cell association based on corona proteins and physicochemical properties. Nanoscale, 2015, 7, 9664-9675.	5.6	118
39	Polymer surface nano-structuring of reverse osmosis membranes for fouling resistance and improved flux performance. Journal of Materials Chemistry, 2010, 20, 4642.	6.7	116
40	Numerical study of concentration polarization in a rectangular reverse osmosis membrane channel: Permeate flux variation and hydrodynamic end effects. Journal of Membrane Science, 2007, 303, 140-153.	8.2	113
41	Analysis of Nanoparticle Agglomeration in Aqueous Suspensions via Constant-Number Monte Carlo Simulation. Environmental Science & Technology, 2011, 45, 9284-9292.	10.0	112
42	Kinetics of gypsum crystal growth on a reverse osmosis membrane. Journal of Membrane Science, 2008, 314, 163-172.	8.2	106
43	Reverse Osmosis Desalting of Inland Brackish Water of High Gypsum Scaling Propensity: Kinetics and Mitigation of Membrane Mineral Scaling. Environmental Science & Technology, 2008, 42, 4292-4297.	10.0	105
44	Energy Consumption Optimization of Reverse Osmosis Membrane Water Desalination Subject to Feed Salinity Fluctuation. Industrial & Engineering Chemistry Research, 2009, 48, 9581-9589.	3.7	102
45	On RO membrane and energy costs and associated incentives for future enhancements of membrane permeability. Journal of Membrane Science, 2009, 344, 1-5.	8.2	101
46	Oligodendrocyte Dysfunction after Induction of Experimental Anterior Optic Nerve Ischemia. , 2005, 46, 2716.		100
47	Non-isothermal soil water transport and evaporation. Advances in Water Resources, 2005, 28, 1254-1266.	3.8	97
48	Minimization of energy consumption for a two-pass membrane desalination: Effect of energy recovery, membrane rejection and retentate recycling. Journal of Membrane Science, 2009, 339, 126-137.	8.2	95
49	Structural information in neuronal tissue as revealed byq-space diffusion NMR spectroscopy of metabolites in bovine optic nerve. , 1999, 12, 335-344.		94
50	Ceramic-supported polymer membranes for pervaporation of binary organic/organic mixtures. Journal of Membrane Science, 2003, 213, 145-157.	8.2	93
51	Inhomogeneous flows of non-newtonian fluids: generation of spatial concentration gradients. Journal of Non-Newtonian Fluid Mechanics, 1979, 5, 449-462.	2.4	92
52	Sorption of organics from aqueous solution onto polymeric resins. Industrial & Engineering Chemistry Research, 1993, 32, 2727-2735.	3.7	88
53	Differential Expression of Syndecan-1 Mediates Cationic Nanoparticle Toxicity in Undifferentiated versus Differentiated Normal Human Bronchial Epithelial Cells. ACS Nano, 2011, 5, 2756-2769.	14.6	86
54	Counterionâ€Dependent Protonâ€Driven Selfâ€Assembly of Linear Supramolecular Oligomers Based on Aminoâ€Calix[5]arene Building Blocks. Chemistry - A European Journal, 2007, 13, 8164-8173.	3.3	84

#	Article	IF	Citations
55	Reverse osmosis desalination with high permeability membranes â€" Cost optimization and research needs. Desalination and Water Treatment, 2010, 15, 256-266.	1.0	84
56	NMR diffusion spectroscopy for the characterization of multicomponent hydrogen-bonded assemblies in solution. Perkin Transactions II RSC, 2000, , 2077-2089.	1.1	82
57	Complexation of a Peptidocalix[4]arene, a Vancomycin Mimic, with Alanine-Containing Guests by NMR Diffusion Measurements. Journal of Organic Chemistry, 2000, 65, 5026-5030.	3.2	80
58	Self-Organizing Map Analysis of Toxicity-Related Cell Signaling Pathways for Metal and Metal Oxide Nanoparticles. Environmental Science & Technology, 2011, 45, 1695-1702.	10.0	80
59	A novel ceramic-supported polymer membrane for pervaporation of dilute volatile organic compounds. Journal of Membrane Science, 1999, 162, 269-284.	8.2	79
60	Accelerated desupersaturation of reverse osmosis concentrate by chemically-enhanced seeded precipitation. Desalination, 2010, 264, 256-267.	8.2	79
61	Surface nano-structuring of reverse osmosis membranes via atmospheric pressure plasma-induced graft polymerization for reduction of mineral scaling propensity. Journal of Membrane Science, 2010, 354, 142-149.	8.2	78
62	A novel RO ex situ scale observation detector (EXSOD) for mineral scale characterization and early detection. Journal of Membrane Science, 2007, 291, 86-95.	8.2	76
63	Nanoâ€SAR Development for Bioactivity of Nanoparticles with Considerations of Decision Boundaries. Small, 2013, 9, 1842-1852.	10.0	75
64	Minimizing energy consumption in reverse osmosis membrane desalination using optimization-based control. Journal of Process Control, 2010, 20, 1261-1269.	3.3	74
65	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
66	Protein Adsorption onto Zirconia Modified with Terminally Grafted Polyvinylpyrrolidone. Journal of Colloid and Interface Science, 2001, 235, 70-79.	9.4	73
67	In Silico Analysis of Nanomaterials Hazard and Risk. Accounts of Chemical Research, 2013, 46, 802-812.	15.6	73
68	Noninvasive bipolar double-pulsed-field-gradient NMR reveals signatures for pore size and shape in polydisperse, randomly oriented, inhomogeneous porous media. Journal of Chemical Physics, 2010, 133, 044705.	3.0	71
69	A perspective on reverse osmosis water desalination: Quest for sustainability. AICHE Journal, 2017, 63, 1771-1784.	3.6	70
70	Laboratory study of liquid-phase controlled volatilization rates in presence of wind waves. Environmental Science & Technology, 1978, 12, 553-558.	10.0	69
71	The University of California Center for the Environmental Implications of Nanotechnology. Environmental Science & Technology, 2009, 43, 6453-6457.	10.0	67
72	Multimedia modeling of environmental transport: trichloroethylene test case. Environmental Science & Technology, 1985, 19, 412-417.	10.0	66

#	Article	IF	Citations
73	A Fuzzy ARTMAP Based on Quantitative Structureâ"Property Relationships (QSPRs) for Predicting Aqueous Solubility of Organic Compounds. Journal of Chemical Information and Computer Sciences, 2001, 41, 1177-1207.	2.8	66
74	Multimedia Analysis of PAHs and Nitro-PAH Daughter Products in the Los Angeles Basin. Risk Analysis, 2001, 21, 275-294.	2.7	66
75	Adsorption effects in the flow of polymer solutions through capillaries. Macromolecules, 1982, 15, 1425-1429.	4.8	65
76	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. Journal of Magnetic Resonance, 2008, 194, 230-236.	2.1	65
77	A method for evaluating antiscalant retardation of crystal nucleation and growth on RO membranes. Journal of Membrane Science, 2010, 364, 122-131.	8.2	65
78	Detecting diffusion-diffraction patterns in size distribution phantoms using double-pulsed field gradient NMR: Theory and experiments. Journal of Chemical Physics, 2010, 132, 034703.	3.0	65
79	Evaluation of Toxicity Ranking for Metal Oxide Nanoparticles via an in Vitro Dosimetry Model. ACS Nano, 2015, 9, 9303-9313.	14.6	65
80	Polymer Retention and Adsorption in the Flow of Polymer Solutions Through Porous Media. SPE Reservoir Engineering, 1986, 1, 113-118.	0.5	63
81	Dynamic partitioning of semivolatile organics in gas/particle/rain phases during rain scavenging. Environmental Science & Technology, 1991, 25, 2012-2023.	10.0	63
82	Nonlinear Model-Based Control of an Experimental Reverse-Osmosis Water Desalination System. Industrial & Engineering Chemistry Research, 2009, 48, 6126-6136.	3.7	62
83	Process evaluation of intermediate chemical demineralization for water recovery enhancement in production-scale brackish water desalting. Desalination, 2011, 272, 36-45.	8.2	62
84	Neural network approach for modeling the performance of reverse osmosis membrane desalting. Journal of Membrane Science, 2009, 326, 408-419.	8.2	61
85	Model-predictive control of feed flow reversal in a reverse osmosis desalination process. Journal of Process Control, 2009, 19, 433-442.	3.3	61
86	Mineral scale monitoring for reverse osmosis desalination via real-time membrane surface image analysis. Desalination, 2011, 273, 64-71.	8.2	61
87	Crystallization of calcium sulfate on polymeric surfaces. Journal of Colloid and Interface Science, 2011, 356, 790-797.	9.4	61
88	Anionâ€Assisted Supramolecular Polymerization: From Achiral ABâ€Type Monomers to Chiral Assemblies. Angewandte Chemie - International Edition, 2011, 50, 11956-11961.	13.8	60
89	Biofouling and cleaning effectiveness of surface nanostructured reverse osmosis membranes. Journal of Membrane Science, 2013, 446, 472-481.	8.2	58
90	Self-Assembly Dynamics of Modular Homoditopic Bis-calix[5]arenes and Long-Chain Î±,Ï‰-Alkanediyldiammonium Components. Journal of Organic Chemistry, 2008, 73, 7280-7289.	3.2	57

#	Article	IF	Citations
91	RO membrane mineral scaling in the presence of a biofilm. Journal of Membrane Science, 2012, 415-416, 181-191.	8.2	57
92	Analysis of forward osmosis desalination via two-dimensional FEM model. Journal of Membrane Science, 2014, 464, 161-172.	8.2	57
93	In vivo andin vitro bi-exponential diffusion ofN -acetyl aspartate (NAA) in rat brain: a potential structural probe?. , 1998, 11, 67-74.		56
94	An Integrated approach for characterization of polyamide reverse osmosis membrane degradation due to exposure to free chlorine. Journal of Membrane Science, 2016, 510, 164-173.	8.2	56
95	Ranking of antiscalant performance for gypsum scale suppression in the presence of residual aluminum. Desalination, 2006, 196, 280-292.	8.2	55
96	Graft polymerization of polyvinylpyrrolidone onto silica. Journal of Applied Polymer Science, 1989, 37, 2921-2931.	2.6	54
97	Brackish water reverse osmosis (BWRO) operation in feed flow reversal mode using an ex situ scale observation detector (EXSOD). Journal of Membrane Science, 2009, 341, 60-66.	8.2	54
98	Graft polymerization of vinyl acetate onto silica. Journal of Applied Polymer Science, 2003, 87, 300-310.	2.6	53
99	A Fuzzy ARTMAP-Based Quantitative Structureâ^'Property Relationship (QSPR) for the Henry's Law Constant of Organic Compounds. Journal of Chemical Information and Computer Sciences, 2003, 43, 85-112.	2.8	53
100	Feasibility of reverse osmosis desalination of brackish agricultural drainage water in the San Joaquin Valley. Desalination, 2010, 261, 240-250.	8.2	53
101	Self-adaptive feed flow reversal operation of reverse osmosis desalination. Desalination, 2013, 308, 63-72.	8.2	53
102	Shear-induced permeability changes in a polymer grafted silica membrane. Journal of Membrane Science, 2000, 179, 207-220.	8.2	52
103	Encapsulated or Not Encapsulated? Mapping Alcohol Sites in Hexameric Capsules of Resorcin[4]arenes in Solution by Diffusion NMR Spectroscopy. Angewandte Chemie - International Edition, 2010, 49, 428-431.	13.8	52
104	Critical Review: Regulatory Incentives and Impediments for Onsite Graywater Reuse in the United States. Water Environment Research, 2013, 85, 650-662.	2.7	52
105	Topological AFM characterization of graft polymerized silica membranes. Journal of Membrane Science, 2003, 215, 249-264.	8.2	51
106	Phosphonium pillar[5]arenes as a new class of efficient biofilm inhibitors: importance of charge cooperativity and the pillar platform. Chemical Communications, 2016, 52, 10656-10659.	4.1	51
107	Probing Microscopic Architecture of Opaque Heterogeneous Systems Using Double-Pulsed-Field-Gradient NMR. Journal of the American Chemical Society, 2011, 133, 6028-6035.	13.7	50
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

#	Article	IF	Citations
109	Removal of methyl tert-butyl ether from water by pervaporation using ceramic-supported polymer membranes. Journal of Membrane Science, 2004, 229, 27-32.	8.2	49
110	Hydrodynamic thickness of adsorbed polymers in steady shear flow. Macromolecules, 1988, 21, 494-499.	4.8	48
111	Dynamic partitioning of organic chemicals in regional environments: a multimedia screening-level modeling approach. Environmental Science & Technology, 1990, 24, 1549-1558.	10.0	48
112	Self-Assembly of Resorcin[4]arene in the Presence of Small Alkylammonium Guests in Solution. Organic Letters, 2008, 10, 1505-1508.	4.6	48
113	Neural Network Based Quantitative Structural Property Relations (QSPRs) for Predicting Boiling Points of Aliphatic Hydrocarbons. Journal of Chemical Information and Computer Sciences, 2000, 40, 859-879.	2.8	47
114	Low-pressure RO membrane desalination of agricultural drainage water. Desalination, 2003, 155, 109-120.	8.2	47
115	Self-Diffusion of Charged Polycyclic Systems and Their Parent Compounds: A PGSE NMR Study. Angewandte Chemie International Edition in English, 1995, 34, 816-818.	4.4	46
116	Equilibrium Swelling of Highly Cross-Linked Polymeric Resins. Industrial & Engineering Chemistry Research, 1994, 33, 2345-2357.	3.7	45
117	Kinetics of free-radical graft polymerization of 1-vinyl-2-pyrrolidone onto silica. Journal of Polymer Science Part A, 2002, 40, 26-42.	2.3	45
118	Coupled 3-D hydrodynamics and mass transfer analysis of mineral scaling-induced flux decline in a laboratory plate-and-frame reverse osmosis membrane module. Journal of Membrane Science, 2009, 339, 39-48.	8.2	45
119	Neural Network Based Temperature-Dependent Quantitative Structure Property Relations (QSPRs) for Predicting Vapor Pressure of Hydrocarbons. Journal of Chemical Information and Computer Sciences, 2001, 41, 463-477.	2.8	44
120	Threeâ€dimensional water diffusion in impermeable cylindrical tubes: theory versus experiments. NMR in Biomedicine, 2008, 21, 888-898.	2.8	44
121	Magnetic nanoparticles-based diagnostics and theranostics. Current Opinion in Biotechnology, 2013, 24, 672-681.	6.6	44
122	Aqueous-phase adsorption of trichloroethene and chloroform onto polymeric resins and activated carbon. Industrial & Engineering Chemistry Research, 1990, 29, 1338-1345.	3.7	43
123	Silica-suported polyvinylpyrrolidone filtration membranes. Journal of Membrane Science, 1996, 115, 179-190.	8.2	43
124	Real-time direct detection of silica scaling on RO membranes. Journal of Membrane Science, 2017, 528, 346-358.	8.2	43
125	Fuzzy ARTMAP and Back-Propagation Neural Networks Based Quantitative Structureâ^'Property Relationships (QSPRs) for Octanolâ^'Water Partition Coefficient of Organic Compounds. Journal of Chemical Information and Computer Sciences, 2002, 42, 162-183.	2.8	41
126	Evaluation of chemically-enhanced seeded precipitation of RO concentrate for high recovery desalting of high salinity brackish water. Desalination, 2013, 317, 116-126.	8.2	41

#	Article	IF	Citations
127	Mass transfer rates between oil slicks and water. Canadian Journal of Chemical Engineering, 1980, 58, 569-575.	1.7	40
128	The adsorption of polyvinylpyrrolidone and polyethylene oxide onto chemically modified silica. Journal of Colloid and Interface Science, 1989, 129, 441-450.	9.4	39
129	The permeability behavior of polyvinylpyrrolidone-modified porous silica membranes. Journal of Membrane Science, 1993, 84, 151-160.	8.2	39
130	A Fuzzy ARTMAP-Based Quantitative Structureâ^'Property Relationship (QSPR) for Predicting Physical Properties of Organic Compounds. Industrial & Engineering Chemistry Research, 2001, 40, 2757-2766.	3.7	39
131	Inorganic Surface Nanostructuring by Atmospheric Pressure Plasma-Induced Graft Polymerization. Langmuir, 2007, 23, 10756-10764.	3.5	38
132	Note on the silylation of inorganic oxide supports. Journal of Colloid and Interface Science, 1990, 134, 576-579.	9.4	37
133	A terminally anchored polymer chain in shear flow: Self-consistent velocity and segment density profiles. Rheologica Acta, 1994, 33, 485-505.	2.4	37
134	Antiscalant removal in accelerated desupersaturation of RO concentrate via chemically-enhanced seeded precipitation (CESP). Water Research, 2012, 46, 4261-4271.	11.3	37
135	An analysis of apparent slip flow of polymer solutions. Rheologica Acta, 1986, 25, 28-35.	2.4	36
136	Magnetic Resonance Imaging by Synergistic Diffusion-Diffraction Patterns. Physical Review Letters, 2012, 108, 058103.	7.8	36
137	Enhancement of reverse osmosis water recovery using interstage calcium precipitation. Desalination, 2012, 295, 43-52.	8.2	36
138	Novel design and operational control of integrated ultrafiltration â€" Reverse osmosis system with RO concentrate backwash. Desalination, 2016, 382, 43-52.	8.2	36
139	Organic compounds passage through RO membranes. Journal of Membrane Science, 2008, 313, 23-43.	8.2	35
140	Control and Monitoring of a High Recovery Reverse Osmosis Desalination Process. Industrial & Engineering Chemistry Research, 2008, 47, 6698-6710.	3.7	35
141	Simulation tool for assessing the release and environmental distribution of nanomaterials. Beilstein Journal of Nanotechnology, 2015, 6, 938-951.	2.8	35
142	Bayesian Network Resource for Metaâ€Analysis: Cellular Toxicity of Quantum Dots. Small, 2019, 15, e1900510.	10.0	35
143	Needs and challenges for assessing the environmental impacts of engineered nanomaterials (ENMs). Beilstein Journal of Nanotechnology, 2017, 8, 989-1014.	2.8	34
144	Organic pollutant transport. Environmental Science & Technology, 1986, 20, 538-544.	10.0	33

#	Article	IF	Citations
145	pHâ€Responsive Pillar[6]areneâ€based Waterâ€Soluble Supramolecular Hexagonal Boxes. Angewandte Chemie - International Edition, 2019, 58, 5302-5306.	13.8	33
146	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
147	Diffusion MRI of the spinal cord: from structural studies to pathology. NMR in Biomedicine, 2017, 30, e3592.	2.8	32
148	QCM study of mineral surface crystallization on aromatic polyamide membrane surfaces. Journal of Membrane Science, 2011, 379, 426-433.	8.2	31
149	Free-radical graft polymerization of vinylpyrrolidone onto silica. Industrial & Engineering Chemistry Research, 1991, 30, 2534-2542.	3.7	30
150	Multi-cycle operation of semi-batch reverse osmosis (SBRO) desalination. Journal of Membrane Science, 2019, 588, 117090.	8.2	30
151	Diffusion NMR for the characterization, in solution, of supramolecular systems based on calixarenes, resorcinarenes, and other macrocyclic arenes. Organic Chemistry Frontiers, 2019, 6, 1705-1718.	4.5	30
152	Response of a terminally anchored polymer chain to simple shear flow. Macromolecules, 1991, 24, 4646-4656.	4.8	29
153	A dual-probe approach for evaluation of gypsum crystallization in response to antiscalant treatment. Desalination, 2004, 169, 213-221.	8.2	29
154	Contaminant migration in the unsaturated soil zone: the effect of rainfall and evapotranspiration. Journal of Contaminant Hydrology, 1996, 23, 185-211.	3.3	28
155	The effect of experimental parameters on the signal decay in double-PGSE experiments: Negative diffractions and enhancement of structural information. Journal of Magnetic Resonance, 2008, 195, 153-161.	2.1	28
156	Self-Assembled Ionophores from Isoguanosine: Diffusion NMR Spectroscopy Clarifies Cation's and Anion's Influence on Supramolecular Structure. Chemistry - A European Journal, 2007, 13, 1969-1977.	3.3	27
157	Possible neuroprotective effect of brimonidine in a mouse model of ischaemic optic neuropathy. Clinical and Experimental Ophthalmology, 2009, 37, 718-729.	2.6	27
158	Estimation of infinite dilution activity coefficients of organic compounds in water with neural classifiers. AICHE Journal, 2004, 50, 1315-1343.	3.6	26
159	Synthesis of poly(4â€vinylpyridine) by reverse atom transfer radical polymerization. Journal of Polymer Science Part A, 2007, 45, 5748-5758.	2.3	26
160	Diagnostic analysis of RO desalting treated wastewater. Desalination, 2008, 230, 239-247.	8.2	26
161	Chapter 10 Concentrate Treatment for Inland Desalting. Sustainability Science and Engineering, 2010, 2, 295-326.	0.6	26
162	Association rule mining of cellular responses induced by metal and metal oxide nanoparticles. Analyst, The, 2014, 139, 943-953.	3.5	26

#	Article	IF	Citations
163	Observed Crystallization Induction Time in Seeded Gypsum Crystallization. Industrial & Engineering Chemistry Research, 2019, 58, 23359-23365.	3.7	26
164	Rapid field assessment of RO desalination of brackish agricultural drainage water. Water Research, 2013, 47, 2649-2660.	11.3	25
165	Energy-Optimal Control of RO Desalination. Industrial & Engineering Chemistry Research, 2014, 53, 7409-7420.	3.7	25
166	Role of CB₂ Receptor in the Recovery of Mice after Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 1836-1846.	3.4	25
167	Graft polymerization of vinyl acetate onto silica. Journal of Applied Polymer Science, 1992, 44, 671-677.	2.6	24
168	Estimation of internodal permeabilities for numerical simulation of unsaturated flows. Water Resources Research, 2002, 38, 62-1-62-10.	4.2	24
169	On the analysis of FO mass transfer resistances via CFD analysis and film theory. Journal of Membrane Science, 2015, 495, 198-205.	8.2	24
170	POWER-LAW FLUIDS IN POROUS MEDIA. Chemical Engineering Communications, 1987, 53, 3-22.	2.6	23
171	Impact of Conventional Water Treatment Coagulants on Mineral Scaling in RO Desalting of Brackish Water. Industrial & Engineering Chemistry Research, 2009, 48, 3126-3135.	3.7	23
172	Self-adaptive cycle-to-cycle control of in-line coagulant dosing in ultrafiltration for pre-treatment of reverse osmosis feed water. Desalination, 2017, 401, 22-31.	8.2	23
173	Gypsum scaling propensity in semi-batch RO (SBRO) and steady-state RO with partial recycle (SSRO-PR). Journal of Membrane Science, 2019, 588, 117106.	8.2	23
174	Numerical model of non-isothermal pervaporation in a rectangular channel. Journal of Membrane Science, 2005, 260, 119-130.	8.2	22
175	Mass transfer across a sheared, wavy air-water interface. International Journal of Heat and Mass Transfer, 1983, 26, 1289-1297.	4.8	21
176	Chemical transport in the top soil zone â€" the role of moisture and temperature gradients. Journal of Hazardous Materials, 1989, 22, 283-304.	12.4	21
177	Kinetic modeling of free-radical graft polymerization. AICHE Journal, 1994, 40, 294-311.	3.6	21
178	In vivo observation of anisotropic motion of brain water using2H double quantum filtered NMR spectroscopy. Magnetic Resonance in Medicine, 1997, 37, 197-203.	3.0	21
179	Multimedia Environmental Distribution of Toxics (Mend-Tox). I: Hybrid Compartmental-Spatial Modeling Framework. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2002, 6, 70-86.	0.4	21
180	Inâ€"out interactions of different guests with the hexameric capsule of resorcin[4]arene. Supramolecular Chemistry, 2010, 22, 803-807.	1.2	21

#	Article	IF	Citations
181	Fouling indicators for field monitoring the effectiveness of operational strategies of ultrafiltration as pretreatment for seawater desalination. Desalination, 2018, 431, 86-99.	8.2	21
182	Kinetic modeling of free-radical polymerization: a conservational polymerization and molecular weight distribution model. Industrial & Engineering Chemistry Research, 1990, 29, 1152-1160.	3.7	20
183	Factors controlling the photochemical generation of gaseous H2O2in the Los Angeles atmosphere. Geophysical Research Letters, 1990, 17, 93-96.	4.0	20
184	High Exchange Rate Complexes of ¹²⁹Xe with Waterâ€Soluble Pillar[5]arenes for Adjustable Magnetization Transfer MRI. ChemPhysChem, 2019, 20, 246-251.	2.1	20
185	Chemical Volatilization in Nearly Dry Soils under Nonâ€Isothermal Conditions. Journal of Environmental Quality, 1988, 17, 198-204.	2.0	19
186	On the Loss of Hydraulic Permeability in Ceramic Membranes. Journal of Colloid and Interface Science, 1996, 181, 347-350.	9.4	19
187	UNSUPERVISED FEATURE SELECTION USING INCREMENTAL LEAST SQUARES. International Journal of Information Technology and Decision Making, 2011, 10, 967-987.	3.9	19
188	Wettability of terminally anchored polymer brush layers on a polyamide surface. Journal of Colloid and Interface Science, 2014, 436, 286-295.	9.4	19
189	Ultrafiltration with self-generated RO concentrate pulse backwash in a novel integrated seawater desalination UF-RO system. Journal of Membrane Science, 2016, 520, 111-119.	8.2	19
190	Effect of hydration repulsion on nanoparticle agglomeration evaluated via a constant number Monteâ€“Carlo simulation. Nanotechnology, 2015, 26, 045708.	2.6	18
191	Encapsulated or Not Encapsulated? Ammonium Salts Can Be Encapsulated in Hexameric Capsules of Pyrogallol[4]arene. Organic Letters, 2016, 18, 936-939.	4.6	18
192	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
193	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
194	Data-driven models of steady state and transient operations of spiral-wound RO plant. Desalination, 2013, 316, 154-161.	8.2	16
195	Costâ€“Benefit Analysis of Onsite Residential Graywater Recycling: A Case Study on the City of Los Angeles. Journal - American Water Works Association, 2015, 107, E436.	0.3	16
196	Pulsed marker method for real-time detection of reverse osmosis membrane integrity loss. Desalination, 2015, 370, 25-32.	8.2	16
197	Feasibility of a semi-batch vertical-flow wetland for onsite residential graywater treatment. Ecological Engineering, 2015, 82, 311-322.	3.6	16
198	Early brain magnetic resonance imaging can predict short and long-term outcomes after organophosphate poisoning in a rat model. NeuroToxicology, 2015, 48, 206-216.	3.0	16

#	Article	IF	Citations
199	Hexameric Capsules Studied by Magic Angle Spinning Solidâ€State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. Angewandte Chemie - International Edition, 2016, 55, 904-907.	13.8	16
200	Effect of Stream Mixing on RO Energy Cost Minimization. Desalination, 2010, 261, 232-239.	8.2	15
201	Calix[4, 5]tetrolarenes: A New Family of Macrocycles. Organic Letters, 2017, 19, 3719-3722.	4.6	15
202	Diffusion of Sorbed Solutes in Gas and Liquid Phases of Low-Moisture Soils. Soil Science Society of America Journal, 1990, 54, 341-346.	2.2	14
203	Polymer-grafted silica: a screening system for polymeric adsorption resin development. Industrial & Engineering Chemistry Research, 1993, 32, 716-725.	3.7	14
204	Chemical volatilization from the soil matrix: Transport through the air and water phases. Journal of Hazardous Materials, 1994, 37, 445-457.	12.4	14
205	PillarareneâEBased TwoâEComponent Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. Chemistry - A European Journal, 2018, 24, 15750-15755.	3.3	14
206	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
207	Solution NMR of synthetic cavity containing supramolecular systems: what have we learned on and from?. Chemical Communications, 2021, 57, 8856-8884.	4.1	14
208	Controlled Nitroxide-Mediated Styrene Surface Graft Polymerization with Atmospheric Plasma Surface Activation. Langmuir, 2008, 24, 13102-13112.	3.5	13
209	Removal of Metal Oxide Nanoparticles from Aqueous Suspensions. Separation Science and Technology, 2014, 49, 161-170.	2.5	13
210	Flexible reverse osmosis (FLERO) desalination. Desalination, 2019, 452, 123-131.	8.2	13
211	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
212	An integrated approach to process waste minimization research. Journal of Hazardous Materials, 1992, 29, 237-253.	12.4	12
213	Permeability of graft-polymerized polyvinylpyrrolidone-silica resin in packed columns. Journal of Colloid and Interface Science, 1992, 148, 579-586.	9.4	12
214	HDAT: web-based high-throughput screening data analysis tools. Computational Science & Discovery, 2013, 6, 014006.	1.5	12
215	Shape induced sorting via rim-to-rim complementarity in the formation of pillar[5, 6]arene-based supramolecular organogels. Organic Chemistry Frontiers, 2019, 6, 3348-3354.	4.5	12
216	Singleâ€•and doubleâ€Diffusion encoding MRI for studying ex vivo apparent axon diameter distribution in spinal cord white matter. NMR in Biomedicine, 2019, 32, e4170.	2.8	12

#	Article	IF	Citations
217	One-dimensional subsurface transport of a nonaqueous phase liquid containing sparingly water soluble organics: A front-tracking model. Water Resources Research, 1991, 27, 1487-1500.	4.2	11
218	A front-tracking numerical algorithm for liquid infiltration into nearly dry soils. Water Resources Research, 1999, 35, 2579-2585.	4.2	11
219	Multimedia Environmental Distribution of Toxics (Mend-Tox). II: Software Implementation and Case Studies. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2002, 6, 87-101.	0.4	11
220	Microstructural information from angular doubleâ€pulsedâ€fieldâ€gradient NMR: From model systems to nerves. Magnetic Resonance in Medicine, 2015, 74, 25-32.	3.0	11
221	Relative hydrophilicities of cis and trans formamides. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19815-19820.	7.1	11
222	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
223	Review of mathematical models for health risk assessment: I. Overview. Environmental Software, 1992, 7, 3-7.	0.3	10
224	Multimedia partitioning of particle-bound organics. Journal of Hazardous Materials, 1994, 37, 507-526.	12.4	10
225	Synthesis, binding affinity, and relaxivity of target-specific MRI contrast agents. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 59, 323-329.	1.6	10
226	Control of a reverse osmosis desalination process at high recovery. , 2008, , .		10
227	On the feasibility of small communities wellhead RO treatment for nitrate removal and salinity reduction. Journal of Environmental Management, 2019, 250, 109487.	7.8	10
228	Polysulfone surface nano-structured with tethered polyacrylic acid. Applied Surface Science, 2019, 470, 411-422.	6.1	10
229	Kinetic Stabilities and Exchange Dynamics of Waterâ€Soluble Bisâ€Formamide Caviplexes Studied Using Diffusionâ€Ordered NMR Spectroscopy (DOSY). Chemistry - A European Journal, 2020, 26, 8220-8225.	3.3	10
230	Quantitative Structure-Activity Relationships for Cellular Uptake of Surface-Modified Nanoparticles. Combinatorial Chemistry and High Throughput Screening, 2015, 18, 365-375.	1.1	10
231	THE FLOW OF MICROEMULSIONS THROUGH PACKED BEDS AND CAPILLARY TUBES. Chemical Engineering Communications, 1984, 28, 73-84.	2.6	9
232	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
233	Bis-resorcin[4]arene Selectively Forms Hexameric Capsules in Apolar Solvents: Evidence from Diffusion NMR. Organic Letters, 2018, 20, 3958-3961.	4.6	9
234	Diffusion NMR in Supramolecular Chemistry. , 0, , 163-219.		8

#	Article	IF	Citations
235	Model predictive control of feed flow reversal in a reverse osmosis desalination process. , 2009, , .		8
236	Reverse atom transfer radical graft polymerization of 4â€vinylpyridine onto inorganic oxide surfaces. Journal of Applied Polymer Science, 2009, 113, 437-449.	2.6	8
237	Bayesian network as a support tool for rapid query of the environmental multimedia distribution of nanomaterials. Nanoscale, 2017, 9, 4162-4174.	5.6	8
238	Tethered hydrophilic polymers layers on a polyamide surface. Journal of Applied Polymer Science, 2018, 135, 46843.	2.6	8
239	Scale up of polyamide reverse osmosis membranes surface modification with tethered poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock	8.2	8
240	Selbstdiffusion von geladenen polycyclischen Arenen und ihren Stammverbindungen: eine PGSEâ€NMRâ€Studie. Angewandte Chemie, 1995, 107, 888-891.	2.0	7
241	A tribute to Sidney Loeb â€"The pioneer of reverse osmosis desalination research. Desalination and Water Treatment, 2010, 15, 222-227.	1.0	7
242	Analysis of soil bacteria susceptibility to manufactured nanoparticles via data visualization. Beilstein Journal of Nanotechnology, 2015, 6, 1635-1651.	2.8	7
243	Nanoinformatics for environmental health and biomedicine. Beilstein Journal of Nanotechnology, 2015, 6, 2449-2451.	2.8	7
244	Constant gradient FEXSY: A time-efficient method for measuring exchange. Journal of Magnetic Resonance, 2020, 311, 106667.	2.1	7
245	Temperatureâ€Dependent and pHâ€Responsive Pillar[5]areneâ€Based Complexes and Hydrogenâ€Bondâ€Based Supramolecular Pentagonal Boxes in Water. Chemistry - A European Journal, 2020, 26, 11250-11255.	3.3	7
246	DIFFUSION OF MACROMOLECULES: A CONSTITUTIVE THEORY. Chemical Engineering Communications, 1986, 41, 73-99.	2.6	6
247	Energy Consumption Optimization of RO Membrane Desalination Subject to Feed Salinity Fluctuation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 255-260.	0.4	6
248	Desupersaturation of RO concentrate and gypsum removal via seeded precipitation in a fluidized bed crystallizer. Water Research, 2021, 190, 116766.	11.3	6
249	Hydraulic Resistance and Protein Fouling Resistance of a Zirconia Membrane with a Tethered PVP Layer. Water (Switzerland), 2021, 13, 951.	2.7	6
250	Mass transfer across wind-sheared interfaces. International Communications in Heat and Mass Transfer, 1985, 12, 139-148.	5.6	5
251	Brownian dynamics of freely jointed chains: Chain conformation with excluded volume effects. Journal of Chemical Physics, 1989, 90, 6680-6690.	3.0	5
252	Multiphase Chemical Transport in Porous Media. , 1989, , 93-103.		5

#	Article	IF	Citations
253	Hydrogen peroxide levels in Los Angeles: A screening-level evaluation. Atmospheric Environment Part B Urban Atmosphere, 1991, 25, 67-78.	0.5	4
254	Intermedia transfer factors for modeling the enviromental impact of air pollution from industrial sources. Journal of Hazardous Materials, 1994, 37, 15-25.	12.4	4
255	UCLA develops â€˜smart' water desalination system. Membrane Technology, 2009, 2009, 8.	0.1	4
256	Evaluation of osmotic energy extraction via FEM modeling and exploration of PRO operational parameter space. Desalination, 2017, 401, 120-133.	8.2	4
257	Intermedia Transport Modeling in Multimedia Systems. , 1986, , 7-48.		4
258	Tropylium cation capsule of hydrogen-bonded tetraurea calix[4]arene dimers. Perkin Transactions II RSC, 2002, , 88-93.	1.1	3
259	Fault Detection and Isolation in a Spiral-Wound Reverse Osmosis (RO) Desalination Plant. Industrial & Engineering Chemistry Research, 2014, 53, 3257-3271.	3.7	3
260	Membrane Desalination of Agricultural Drainage Water. Global Issues in Water Policy, 2014, , 303-341.	0.1	3
261	Surface Modification of Inorganic Oxide Surfaces by Graft Polymerization. Surfactant Science, 2001, , 321-353.	0.0	3
262	The effect of polymer adsorption on particle settling in polymer solutions. AICHE Journal, 1985, 31, 695-696.	3.6	2
263	Title is missing!. Water, Air and Soil Pollution, 2001, 1, 285-294.	0.8	2
264	Nonlinear Model-Based Control of an Experimental Reverse Osmosis Water Desalination System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 892-897.	0.4	2
265	Minimizing energy consumption in reverse osmosis membrane desalination using optimization-based control. , 2010, , .		2
266	Regional multimedia distribution of nanomaterials and associated exposures: A software platform. , 2014, , .		2
267	Performance and Economic Evaluation of a Semibatch Verticalâ€Flow Wetland for Onsite Residential Bathroom Graywater Treatment. Journal - American Water Works Association, 2016, 108, E392.	0.3	2
268	Pore sizes and directionality in microcapillaries from angular double-pulsed-field-gradient NMR. Microporous and Mesoporous Materials, 2016, 225, 105-115.	4.4	2
269	Toxicity Models: Bayesian Network Resource for Metaâ€Analysis: Cellular Toxicity of Quantum Dots (Small 34/2019). Small, 2019, 15, 1970181.	10.0	2
270	Surface characterization data for tethered polyacrylic acid layers synthesized on polysulfone surfaces. Data in Brief, 2019, 23, 103747.	1.0	2

#	Article	IF	Citations
271	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
272	Polyvinylpyrrolidone-Grafted Silica Resin. ACS Symposium Series, 1992, , 254-268.	0.5	1
273	Airâ€“water mass transfer of organics from shallow ponds under laminar recirculation. International Journal of Heat and Mass Transfer, 1999, 42, 165-179.	4.8	1
274	A Fuzzy ARTMAP Based Quantitative Structureâ^'Property Relationship (QSPR) for Predicting Aqueous Solubility of Organic Compounds J. Chem. Inf. Comput. Sci. 41, 1177â^'1207 (2001). Journal of Chemical Information and Computer Sciences, 2002, 42, 768-768.	2.8	1
275	Chronic cholinergic imbalances promote brain diffusion and transport abnormalities. FASEB Journal, 2006, 20, 2425-2425.	0.5	1
276	Quantitative Structure-Activity-Relationships for cellular uptake of nanoparticles. , 2013, , .		1
277	Shemesh, Westin, and Cohen Reply:. Physical Review Letters, 2013, 110, 109802.	7.8	1
278	Pilotâ€testing of electrolysis for bromide removal from drinking water. Journal - American Water Works Association, 2013, 105, E299.	0.3	1
279	Assessment of information availability for environmental impact assessment of engineered nanomaterials. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	1
280	Pillarareneâ€Based Twoâ€Component Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. Chemistry - A European Journal, 2018, 24, 15695-15695.	3.3	1
281	Multimedia and Intermedia Transport Modeling Concepts in Environmental Monitoring. , 1989, , 3-16.		1
282	Model Evaluation of Dry Deposition to Vegetation for Volatile and Semi-Volatile Organic Compounds in a Multimedia Environment. , 2001, , 285-294.		1
283	Aggregation Mode, Hostâ€Guest Chemistry in Water, and Extraction Capability of an Uncharged, Waterâ€Soluble, Liquid Pillar[5]arene Derivative. ChemistryOpen, 2021, 10, 1111-1115.	1.9	1
284	Historic trend of the levels of atmospheric H₂O₂ during 1960's â€“ 1980's in Los Angeles. Geophysical Research Letters, 1990, 17, 937-940.	4.0	0
285	A Fuzzy ARTMAP-Based Quantitative Structureâ€"Property Relationship (QSPR) for the Henryâ€²s Law Constant of Organic Compounds.. ChemInform, 2003, 34, no.	0.0	0
286	David Hasson special issue of desalination. Desalination, 2011, 273, 1.	8.2	0
287	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
288	Visual data exploration of soil bacteria susceptible to engineered nanomaterials. , 2014, , .		0

#	Article	IF	Citations
289	Machine Learning Modeling of Water Use Patterns in Small Disadvantaged Communities. Water (Switzerland), 2021, 13, 2312.	2.7	0