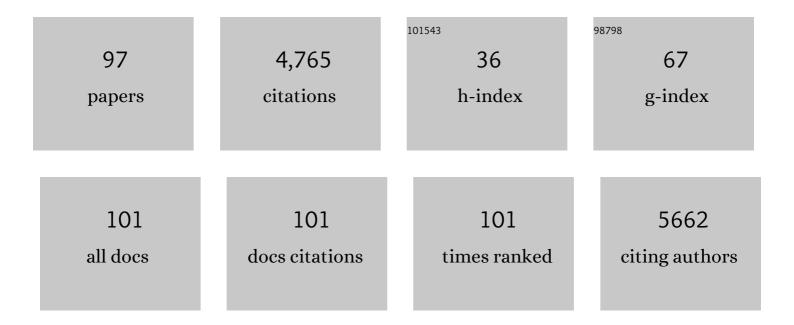
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Conference demographics and footprint changed by virtual platforms. Nature Sustainability, 2022, 5, 149-156.	23.7	47
2	Harnessing blue energy with COF membranes. Nature Nanotechnology, 2022, 17, 564-566.	31.5	14
3	Inactivation Mechanism and Efficacy of Grape Seed Extract for Human Norovirus Surrogate. Applied and Environmental Microbiology, 2022, 88, e0224721.	3.1	4
4	Nanostructured block copolymer muscles. Nature Nanotechnology, 2022, 17, 752-758.	31.5	53
5	Fluorofoldamer-Based Salt- and Proton-Rejecting Artificial Water Channels for Ultrafast Water Transport. Nano Letters, 2022, 22, 4831-4838.	9.1	12
6	Homogeneous hybrid droplet interface bilayers assembled from binary mixtures of DPhPC phospholipids and PB-b-PEO diblock copolymers. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183997.	2.6	2
7	Scalable Pillar[5]arene-Integrated Poly(arylate-amide) Molecular Sieve Membranes to Separate Light Gases. Chemistry of Materials, 2022, 34, 6559-6567.	6.7	7
8	Effective pathogen removal in sustainable natural fiber Moringa filters. Npj Clean Water, 2022, 5, .	8.0	3
9	Prospective applications of nanometer-scale pore size biomimetic and bioinspired membranes. Journal of Membrane Science, 2021, 620, 118968.	8.2	40
10	Nanoscale control of internal inhomogeneity enhances water transport in desalination membranes. Science, 2021, 371, 72-75.	12.6	193
11	Foldamer-based ultrapermeable and highly selective artificial water channels that exclude protons. Nature Nanotechnology, 2021, 16, 911-917.	31.5	54
12	Liposome-based measurement of light-driven chloride transport kinetics of halorhodopsin. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183637.	2.6	4
13	Membrane science emerging as a convergent scientific field with molecular origins and understanding, and global impact. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
14	Microbial diversity analysis of two full-scale seawater desalination treatment trains provides insights into detrimental biofilm formation. , 2021, 1, 100001.		6
15	Current status and future directions of self-assembled block copolymer membranes for molecular separations. Soft Matter, 2021, 17, 10405-10415.	2.7	8
16	Influence of block sequence on the colloidal self-assembly of poly(norbornene)- <i>block</i> -poly(ethylene oxide) amphiphilic block polymers using rapid injection processing. Polymer Chemistry, 2020, 11, 375-384.	3.9	9
17	Mechanical degradation of polyacrylamide at ultra high deformation rates during hydraulic fracturing. Environmental Science: Water Research and Technology, 2020, 6, 166-172.	2.4	6
18	Artificial water channels enable fast and selective water permeation through water-wire networks. Nature Nanotechnology, 2020, 15, 73-79.	31.5	111

#	Article	IF	CITATIONS
19	Lipid-Functionalized Graphene Loaded with hMnSOD for Selective Inhibition of Cancer Cells. ACS Applied Materials & Interfaces, 2020, 12, 12407-12416.	8.0	15
20	Rapid fabrication of precise high-throughput filters from membrane protein nanosheets. Nature Materials, 2020, 19, 347-354.	27.5	59
21	Quantum transport in three-dimensional metalattices of platinum featuring an unprecedentedly large surface area to volume ratio. Physical Review Materials, 2020, 4, .	2.4	3
22	Biomimetic Separation of Transport and Matrix Functions in Lamellar Block Copolymer Channel-Based Membranes. ACS Nano, 2019, 13, 8292-8302.	14.6	37
23	7 Log Virus Removal in a Simple Functionalized Sand Filter. Environmental Science & Technology, 2019, 53, 12706-12714.	10.0	17
24	Solvent-non-solvent rapid-injection for preparing nanostructured materials from micelles to hydrogels. Nature Communications, 2019, 10, 3855.	12.8	30
25	Artificial water channels: toward and beyond desalination. Current Opinion in Chemical Engineering, 2019, 25, 9-17.	7.8	39
26	Rapid screening and scaleâ€up of ultracentrifugationâ€free, membraneâ€based procedures for purification of Hisâ€tagged membrane proteins. Biotechnology Progress, 2019, 35, e2859.	2.6	9
27	Purification of an Engineered Membrane Protein FhuA for Size-Dependent Separation. Biophysical Journal, 2019, 116, 346a.	0.5	0
28	Effective Biofouling Control Using Periodic H <sub>2</sub> O <sub>2</sub> Cleaning with CuO Modified and Polypropylene Spacers. ACS Sustainable Chemistry and Engineering, 2019, 7, 9582-9587.	6.7	19
29	Highlights from the Faraday Discussion on Artificial Water Channels, Glasgow, UK. Chemical Communications, 2019, 55, 3853-3858.	4.1	3
30	Characterization of the Lipid Structure and Fluidity of Lipid Membranes on Epitaxial Graphene and Their Correlation to Graphene Features. Langmuir, 2019, 35, 4726-4735.	3.5	5
31	Hierarchical Optimization of High-Performance Biomimetic and Bioinspired Membranes. Langmuir, 2019, 35, 589-607.	3.5	15
32	GhoT of the GhoT/GhoS toxin/antitoxin system damages lipid membranes by forming transient pores. Biochemical and Biophysical Research Communications, 2018, 497, 467-472.	2.1	7
33	Creating cross-linked lamellar block copolymer supporting layers for biomimetic membranes. Faraday Discussions, 2018, 209, 179-191.	3.2	15
34	Biomimetic Membrane Design Principles for Angstrom Scale Separation. Biophysical Journal, 2018, 114, 361a.	0.5	0
35	Design Considerations for Artificial Water Channel–Based Membranes. Annual Review of Materials Research, 2018, 48, 57-82.	9.3	40
36	<i>In situ</i> recovery of bio-based carboxylic acids. Green Chemistry, 2018, 20, 1791-1804.	9.0	63

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37	Porous Vesicles with Extrusionâ€Tunable Permeability and Pore Size from Mixed Solutions of PEO–PPO–PEO Triblock Copolymers. Macromolecular Chemistry and Physics, 2018, 219, 1700620.	2.2	3
38	<i>Moringa oleifera f</i> -sand Filters for Sustainable Water Purification. Environmental Science and Technology Letters, 2018, 5, 38-42.	8.7	31
39	Chemical Degradation of Polyacrylamide during Hydraulic Fracturing. Environmental Science & Technology, 2018, 52, 327-336.	10.0	68
40	Improving extraction and post-purification concentration of membrane proteins. Analyst, The, 2018, 143, 1378-1386.	3.5	16
41	An Enhanced Platform for Bioelectrochemical Systems: A Novel Approach to Characterize Lipid Structure on Graphene. Biophysical Journal, 2018, 114, 98a.	0.5	0
42	Measuring Transport Kinetics of Light Driven Membrane Protein, Halorhodopsin. Biophysical Journal, 2018, 114, 146a.	0.5	1
43	The modelling and enhancement of water hydrodynamics: general discussion. Faraday Discussions, 2018, 209, 273-285.	3.2	2
44	Structure and function of natural proteins for water transport: general discussion. Faraday Discussions, 2018, 209, 83-95.	3.2	4
45	Polyacrylamide degradation and its implications in environmental systems. Npj Clean Water, 2018, 1, .	8.0	271
46	Biomimetic water channels: general discussion. Faraday Discussions, 2018, 209, 205-229.	3.2	10
47	PoreDesigner for tuning solute selectivity in a robust and highly permeable outer membrane pore. Nature Communications, 2018, 9, 3661.	12.8	50
48	Applications to water transport systems: general discussion. Faraday Discussions, 2018, 209, 389-414.	3.2	4
49	Emerging investigators series: prospects and challenges for high-pressure reverse osmosis in minimizing concentrated waste streams. Environmental Science: Water Research and Technology, 2018, 4, 894-908.	2.4	32
50	Polyacrylamide in hydraulic fracturing fluid causes severe membrane fouling during flowback water treatment. Journal of Membrane Science, 2018, 560, 125-131.	8.2	25
51	Probing the Internal Microstructure of Polyamide Thin-Film Composite Membranes Using Resonant Soft X-ray Scattering. ACS Macro Letters, 2018, 7, 927-932.	4.8	21
52	Unique selectivity trends of highly permeable PAP[5] water channel membranes. Faraday Discussions, 2018, 209, 193-204.	3.2	13
53	Light-Driven Chloride Transport Kinetics of Halorhodopsin. Biophysical Journal, 2018, 115, 353-360.	0.5	9
54	A combined ultrafiltration–reverse osmosis process for external reuse of Weiyuan shale gas flowback and produced water. Environmental Science: Water Research and Technology, 2018, 4, 942-955.	2.4	39

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55	Electron tomography reveals details of the internal microstructure of desalination membranes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8694-8699.	7.1	69
56	Achieving high permeability and enhanced selectivity for Angstrom-scale separations using artificial water channel membranes. Nature Communications, 2018, 9, 2294.	12.8	95
57	Quantitative Analysis of Transient Intertidal Submarine Groundwater Discharge in Coastal Aquifer of Western Japan. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2017, 87, 423-432.	1.2	3
58	PEE–PEO Block Copolymer Exchange Rate between Mixed Micelles Is Detergent and Temperature Activated. Macromolecules, 2017, 50, 2484-2494.	4.8	12
59	Role of Pore-Lining Residues in Defining the Rate of Water Conduction by Aquaporin-O. Biophysical Journal, 2017, 112, 953-965.	0.5	14
60	Can Fibrous Mats Outperform Current Ultrafiltration and Microfiltration Membranes?. Industrial & amp; Engineering Chemistry Research, 2017, 56, 10438-10447.	3.7	6
61	Reactive micromixing eliminates fouling and concentration polarization in reverse osmosis membranes. Journal of Membrane Science, 2017, 542, 8-17.	8.2	39
62	Membrane Protein Insertion into and Compatibility with Biomimetic Membranes. Advanced Biology, 2017, 1, e1700053.	3.0	24
63	Synthesis and Self-Assembly of Cellulose Microfibrils from Reconstituted Cellulose Synthase. Plant Physiology, 2017, 175, 146-156.	4.8	49
64	Chemically specific coarse-grained models to investigate the structure of biomimetic membranes. RSC Advances, 2017, 7, 54756-54771.	3.6	4
65	Biomimetic and bioinspired approaches for wiring enzymes to electrode interfaces. Energy and Environmental Science, 2017, 10, 14-42.	30.8	70
66	Structure of the Cellulose Synthase Complex of Gluconacetobacter hansenii at 23.4 Ã Resolution. PLoS ONE, 2016, 11, e0155886.	2.5	43
67	Concentrating membrane proteins using ultrafiltration without concentrating detergents. Biotechnology and Bioengineering, 2016, 113, 2122-2130.	3.3	10
68	Beneficial biofilm works as a "probiotic―to control membrane biofouling. Membrane Technology, 2016, 2016, 8.	0.1	1
69	Fouling of microfiltration membranes by flowback and produced waters from the Marcellus shale gas play. Water Research, 2016, 99, 162-170.	11.3	76
70	Specific ion effects on the permselectivity of sulfonated poly(ether sulfone) cation exchange membranes. Journal of Membrane Science, 2016, 508, 146-152.	8.2	100
71	Salt-Excluding Artificial Water Channels Exhibiting Enhanced Dipolar Water and Proton Translocation. Journal of the American Chemical Society, 2016, 138, 5403-5409.	13.7	111
72	Living biofouling-resistant membranes as a model for the beneficial use of engineered biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2802-11.	7.1	52

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73	Origins of concentration gradients for diffusiophoresis. Soft Matter, 2016, 12, 4686-4703.	2.7	241
74	Biomimetic wiring and stabilization of photosynthetic membrane proteins with block copolymer interfaces. Journal of Materials Chemistry A, 2016, 4, 15457-15463.	10.3	26
75	A single heterologously expressed plant cellulose synthase isoform is sufficient for cellulose microfibril formation in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11360-11365.	7.1	80
76	Cell Surface Display Fungal Laccase as a Renewable Biocatalyst for Degradation of Persistent Micropollutants Bisphenol A and Sulfamethoxazole. Environmental Science & Technology, 2016, 50, 8799-8808.	10.0	76
77	Magnetically Directed Two-Dimensional Crystallization of OmpF Membrane Proteins in Block Copolymers. Journal of the American Chemical Society, 2016, 138, 28-31.	13.7	27
78	<i>InÂvitro</i> synthesis of cellulose microfibrils by a membrane protein from protoplasts of the non-vascular plant <i>Physcomitrella patens</i> . Biochemical Journal, 2015, 470, 195-205.	3.7	13
79	A framework for accurate evaluation of the promise of aquaporin based biomimetic membranes. Journal of Membrane Science, 2015, 479, 223-231.	8.2	59
80	Diffusiophoresis contributes significantly to colloidal fouling in low salinity reverse osmosis systems. Journal of Membrane Science, 2015, 479, 67-76.	8.2	33
81	Highly permeable artificial water channels that can self-assemble into two-dimensional arrays. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9810-9815.	7.1	152
82	Integrated acidogenic digestion and carboxylic acid separation by nanofiltration membranes for the lignocellulosic carboxylate platform. Journal of Membrane Science, 2015, 489, 275-283.	8.2	62
83	Advancing Rhodobacter sphaeroides as a platform for expression of functional membrane proteins. Protein Expression and Purification, 2015, 115, 109-117.	1.3	10
84	The Flocculating Cationic Polypetide from <i>Moringa oleifera</i> Seeds Damages Bacterial Cell Membranes by Causing Membrane Fusion. Langmuir, 2015, 31, 4496-4502.	3.5	66
85	Molecular Cloning, Overexpression and Characterization of a Novel Water Channel Protein from Rhodobacter sphaeroides. PLoS ONE, 2014, 9, e86830.	2.5	30
86	Biomimetic membranes: A review. Journal of Membrane Science, 2014, 454, 359-381.	8.2	314
87	Particle Deposition on Microporous Membranes Can Be Enhanced or Reduced by Salt Gradients. Langmuir, 2014, 30, 793-799.	3.5	32
88	Twoâ€Dimensional Protein Crystals for Solar Energy Conversion. Advanced Materials, 2014, 26, 7064-7069.	21.0	32
89	Perchlorate Reduction Using Free and Encapsulated <i>Azospira oryzae</i> Enzymes. Environmental Science & Technology, 2013, 47, 9934-9941.	10.0	30
90	High-Density Reconstitution of Functional Water Channels into Vesicular and Planar Block Copolymer Membranes. Journal of the American Chemical Society, 2012, 134, 18631-18637.	13.7	107

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91	CO <sub>2</sub> permeability of cell membranes is regulated by membrane cholesterol and protein gas channels. FASEB Journal, 2012, 26, 5182-5191.	0.5	88
92	Bench-scale evaluation of seawater desalination by reverse osmosis. Desalination, 2010, 250, 490-499.	8.2	29
93	Immobilized Protein–Polymer Nanoreactors. Small, 2009, 5, 2545-2548.	10.0	89
94	Innovative beneficial reuse of reverse osmosis concentrate using bipolar membrane electrodialysis and electrochlorination processes. Journal of Membrane Science, 2009, 326, 392-399.	8.2	143
95	Highly permeable polymeric membranes based on the incorporation of the functional water channel protein Aquaporin Z. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20719-20724.	7.1	645
96	Reverse osmosis integrity monitoring. Desalination, 2007, 214, 138-149.	8.2	37
97	Simultaneous Removal of Oil and Bacteria in a Natural Fiber Filter. Environmental Science and Technology Letters, 0, , .	8.7	2