Jay R Werber

List of Publications by Year in Descending Order

24 papers	3,515 citations	19 h-index	25 g-index
25 ext. papers	4,331 ext. citations	12.3 avg, IF	6.13 L-index

#	Paper	IF	Citations
24	Functionalized Polymersomes from a Polyisoprene-Activated Polyacrylamide Precursor. *Langmuir*, **2021**, 37, 490-498	4	0
23	Next-Generation Ultrafiltration Membranes Enabled by Block Polymers. *ACS Nano*, **2020**,	16.7	32
22	Capillary-driven desalination in a synthetic mangrove. *Science Advances*, **2020**, 6, eaax5253	14.3	19
21	Controlled grafting of polymer brush layers from porous cellulosic membranes. *Journal of Membrane Science*, **2020**, 596, 117719	9.6	13
20	Co-Casting Highly Selective Dual-Layer Membranes with Disordered Block Polymer Selective Layers. *ACS Applied Materials & Interfaces*, **2020**, 12, 45351-45362	9.5	3
19	Ionization behavior of nanoporous polyamide membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30191-30200	11.5	21
18	Pathways and Challenges for Biomimetic Desalination Membranes with Sub-Nanometer Channels. *ACS Nano*, **2020**, 14, 10894-10916	16.7	30
17	Monte Carlo Simulations of Framework Defects in Layered Two-Dimensional Nanomaterial Desalination Membranes: Implications for Permeability and Selectivity. *Environmental Science & Technology*, **2019**, 53, 6214-6224	10.3	48
16	The role of nanotechnology in tackling global water challenges. *Nature Sustainability*, **2018**, 1, 166-175	22.1	241
15	A Path to Ultraselectivity: Support Layer Properties To Maximize Performance of Biomimetic Desalination Membranes. *Environmental Science & Technology*, **2018**, 52, 10737-10747	10.3	22
14	Permselectivity limits of biomimetic desalination membranes. *Science Advances*, **2018**, 4, eaar8266	14.3	53
13	High-Pressure Reverse Osmosis for Energy-Efficient Hypersaline Brine Desalination: Current Status, Design Considerations, and Research Needs. *Environmental Science and Technology Letters*, **2018**, 5, 467-475	11	114
12	A facile method to quantify the carboxyl group areal density in the active layer of polyamide thin-film composite membranes. *Journal of Membrane Science*, **2017**, 534, 100-108	9.6	48
11	Acyl-chloride quenching following interfacial polymerization to modulate the water permeability, selectivity, and surface charge of desalination membranes. *Journal of Membrane Science*, **2017**, 535, 357-364	9.6	46
10	Enhanced antibacterial activity through the controlled alignment of graphene oxide nanosheets. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9793-E9801	11.5	215
9	Loss of Phospholipid Membrane Integrity Induced by Two-Dimensional Nanomaterials. *Environmental Science and Technology Letters*, **2017**, 4, 404-409	11	29
8	Can batch or semi-batch processes save energy in reverse-osmosis desalination?. *Desalination*, **2017**, 402, 109-122	10.3	78

List of Publications

7	Materials for next-generation desalination and water purification membranes. *Nature Reviews Materials*, **2016**, 1,	73.3	1380
6	The Critical Need for Increased Selectivity, Not Increased Water Permeability, for Desalination Membranes. *Environmental Science and Technology Letters*, **2016**, 3, 112-120	11	392
5	Application of membrane dewatering for algal biofuel. *Algal Research*, **2015**, 11, 1-12	5	74
4	Forward osmosis: Where are we now?. *Desalination*, **2015**, 356, 271-284	10.3	568
3	One Resin, Multiple Products: A Green Approach to Purification. *ACS Symposium Series*, **2013**, 87-111	0.4	1
2	Analysis of 2,2′-azobis (2-amidinopropane) dihydrochloride degradation and hydrolysis in aqueous solutions. *Journal of Pharmaceutical Sciences*, **2011**, 100, 3307-3315	3.9	76
1	Using a Fiber-Optic Probe for the Measurement of Volumetric Expansion of Liquids. *Industrial & Engineering Chemistry Research*, **2007**, 46, 4330-4334	3.9	12