

# Eric M V Hoek

## List of Publications by Year in descending order

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34  
papers

5,432  
citations

304743

22  
h-index

414414

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

8251  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the antibacterial effects of silver nanomaterials and potential implications for human health and the environment. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1531-1551.	1.9	2,357
2	Cake-Enhanced Concentration Polarization: A New Fouling Mechanism for Salt-Rejecting Membranes. <i>Environmental Science &amp; Technology</i> , 2003, 37, 5581-5588.	10.0	531
3	Extended DLVO interactions between spherical particles and rough surfaces. <i>Journal of Colloid and Interface Science</i> , 2006, 298, 50-58.	9.4	463
4	Effect of Membrane Surface Roughness on Colloid-Membrane DLVO Interactions. <i>Langmuir</i> , 2003, 19, 4836-4847.	3.5	419
5	Membrane-based production of salinity-gradient power. <i>Energy and Environmental Science</i> , 2011, 4, 4423.	30.8	416
6	Distribution of microplastics in soil and freshwater environments: Global analysis and framework for transport modeling. <i>Environmental Pollution</i> , 2021, 274, 116552.	7.5	189
7	Effect of mobile cation on zeolite-polyamide thin film nanocomposite membranes. <i>Journal of Materials Research</i> , 2009, 24, 1624-1631.	2.6	124
8	Low-Fouling Antibacterial Reverse Osmosis Membranes via Surface Grafting of Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14334-14338.	8.0	113
9	Pore-structure, hydrophilicity, and particle filtration characteristics of polyaniline-polysulfone ultrafiltration membranes. <i>Journal of Materials Chemistry</i> , 2010, 20, 4621.	6.7	95
10	Fabrication of Low-Fouling Ultrafiltration Membranes Using a Hydrophilic, Self-Doping Polyaniline Additive. <i>Chemistry of Materials</i> , 2013, 25, 3597-3602.	6.7	74
11	Carbon nanotube-templated polyaniline nanofibers: synthesis, flash welding and ultrafiltration membranes. <i>Nanoscale</i> , 2013, 5, 3856.	5.6	61
12	Highly dispersible polypyrrole nanospheres for advanced nanocomposite ultrafiltration membranes. <i>Materials Horizons</i> , 2014, 1, 58-64.	12.2	55
13	Effects of membrane orientation on fouling characteristics of forward osmosis membrane in concentration of microalgae culture. <i>Bioresource Technology</i> , 2015, 197, 429-433.	9.6	55
14	A critical review of point-of-use drinking water treatment in the United States. <i>Npj Clean Water</i> , 2021, 4, .	8.0	50
15	Mineral Scale Prevention on Electrically Conducting Membrane Distillation Membranes Using Induced Electrophoretic Mixing. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3678-3690.	10.0	48
16	Unaccounted Microplastics in Wastewater Sludge: Where Do They Go?. <i>ACS ES&amp;T Water</i> , 2021, 1, 1086-1097.	4.6	48
17	Carbon nanotube/polyaniline nanofiber ultrafiltration membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15390.	10.3	44
18	Nanostructured Graphene Oxide Composite Membranes with Ultrapermselectivity and Mechanical Robustness. <i>Nano Letters</i> , 2020, 20, 2209-2218.	9.1	41

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19	Novel chlorine resistant low-fouling ultrafiltration membrane based on a hydrophilic polyaniline derivative. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8725-8733.	10.3	35
20	Scalable Antifouling Reverse Osmosis Membranes Utilizing Perfluorophenyl Azide Photochemistry. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1528-1533.	3.9	28
21	Next-Generation Asymmetric Membranes Using Thin-Film Liftoff. <i>Nano Letters</i> , 2019, 19, 5036-5043.	9.1	28
22	Synthesis, characterization, and ion-exchange properties of colloidal zeolite nanocrystals. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1795-1803.	1.9	25
23	Remediation of groundwater contaminated with arsenic through enhanced natural attenuation: Batch and column studies. <i>Water Research</i> , 2017, 122, 545-556.	11.3	20
24	The influence of solvent properties on the performance of polysulfone/ $\beta$ -cyclodextrin polyurethane mixed matrix membranes. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2005-2014.	2.6	19
25	The Age of Cortical Neural Networks Affects Their Interactions with Magnetic Nanoparticles. <i>Small</i> , 2016, 12, 3559-3567.	10.0	18
26	Performance, Energy and Cost of Produced Water Treatment by Chemical and Electrochemical Coagulation. <i>Water (Switzerland)</i> , 2020, 12, 3426.	2.7	17
27	Direct grafting of tetraaniline via perfluorophenylazide photochemistry to create antifouling, low bio-adhesion surfaces. <i>Chemical Science</i> , 2019, 10, 4445-4457.	7.4	16
28	Investigating the structure and water permeation of membranes modified with natural and synthetic additives using tensile, porosity, and glass transition temperature studies. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	15
29	Produced Water Desalination via Pervaporative Distillation. <i>Water (Switzerland)</i> , 2020, 12, 3560.	2.7	10
30	Desalinating a real hyper-saline pre-treated produced water via direct-heat vacuum membrane distillation. <i>Water Research</i> , 2022, 218, 118503.	11.3	9
31	Electroprecipitation Mechanism Enabling Silica and Hardness Removal through Aluminum-Based Electrocoagulation. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1200-1210.	7.6	8
32	Turning on the taps. <i>Npj Clean Water</i> , 2018, 1, .	8.0	1
33	Estimation of Greenhouse Gas Reduction Potentials by Introducing Smart Energy Systems: Empirical Evidence in Korea's Building Energy Management System. <i>Journal of Climate Change Research</i> , 2020, 11, 383-396.	0.4	0
34	An Analytical Approach for CPS Preparation for Korea's ODA: Focusing on Environment, Science and Technology Innovation Sector. <i>Journal of Climate Change Research</i> , 2020, 11, 413-425.	0.4	0