Rhea Verbeke

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5808270/publications.pdf

Version: 2024-02-01

29 papers	1,190 citations	516215 16 h-index	476904 29 g-index
30 all docs	30 docs citations	30 times ranked	1435 citing authors

#	Article	IF	Citations
1	The open membrane database: Synthesisâ€“structureâ€“performance relationships of reverse osmosis membranes. Journal of Membrane Science, 2022, 641, 119927.	4.1	62
2	Elucidating the Roles of Polyamide Layer Structural Properties in the Permeabilityâ€“Selectivity Tradeoff Governing Aqueous Separations. ACS ES&T Engineering, 2022, 2, 1857-1870.	3.7	4
3	Transport of organic solutes in ion-exchange membranes: Mechanisms and influence of solvent ionic composition. Water Research, 2021, 190, 116756.	5.3	12
4	Templateâ€Mediated Control over Polymorphism in the Vaporâ€Assisted Formation of Zeolitic Imidazolate Framework Powders and Films. Angewandte Chemie - International Edition, 2021, 60, 7553-7558.	7.2	20
5	Non-steady diffusion and adsorption of organic micropollutants in ion-exchange membranes: effect of the membrane thickness. IScience, 2021, 24, 102095.	1.9	6
6	Templateâ€Mediated Control over Polymorphism in the Vaporâ€Assisted Formation of Zeolitic Imidazolate Framework Powders and Films. Angewandte Chemie, 2021, 133, 7631-7636.	1.6	2
7	Porosimetry for Thin Films of Metalâ€“Organic Frameworks: A Comparison of Positron Annihilation Lifetime Spectroscopy and Adsorptionâ€Based Methods. Advanced Materials, 2021, 33, e2006993.	11.1	40
8	Porosimetry: Porosimetry for Thin Films of Metalâ€“Organic Frameworks: A Comparison of Positron Annihilation Lifetime Spectroscopy and Adsorptionâ€Based Methods (Adv. Mater. 17/2021). Advanced Materials, 2021, 33, 2170133.	11.1	3
9	Chlorine-Resistant Epoxide-Based Membranes for Sustainable Water Desalination. Environmental Science and Technology Letters, 2021, 8, 818-824.	3.9	12
10	Aqueous Flow Reactor and Vapourâ€Assisted Synthesis of Aluminium Dicarboxylate Metalâ€“Organic Frameworks with Tuneable Water Sorption Properties. Chemistry - A European Journal, 2020, 26, 10841-10848.	1.7	13
11	Thin film composite membrane compaction in high-pressure reverse osmosis. Journal of Membrane Science, 2020, 610, 118268.	4.1	73
12	Controlled chlorination of polyamide reverse osmosis membranes at real scale for enhanced desalination performance. Journal of Membrane Science, 2020, 611, 118400.	4.1	18
13	The significant role of support layer solvent annealing in interfacial polymerization: The case of epoxide-based membranes. Journal of Membrane Science, 2020, 612, 118438.	4.1	11
14	Solvent-Free Powder Synthesis and MOF-CVD Thin Films of the Large-Pore Metalâ€“Organic Framework MAF-6. Chemistry of Materials, 2020, 32, 1784-1793.	3.2	62
15	Elemental Depth Profiling of Chlorinated Polyamide-Based Thin-Film Composite Membranes with Elastic Recoil Detection. Environmental Science & Technology, 2019, 53, 8640-8648.	4.6	11
16	Integrated Cleanroom Process for the Vapor-Phase Deposition of Large-Area Zeolitic Imidazolate Framework Thin Films. Chemistry of Materials, 2019, 31, 9462-9471.	3.2	52
17	Bipyridine-based UiO-67 as novel filler in mixed-matrix membranes for CO2-selective gas separation. Journal of Membrane Science, 2019, 576, 78-87.	4.1	75
18	Transferring bulk chemistry to interfacial synthesis of TFC-membranes to create chemically robust poly(epoxyether) films. Journal of Membrane Science, 2019, 582, 442-453.	4.1	24

#	Article	IF	Citations
19	Tuning the porosity of asymmetric membranes via simple post-synthesis solvent-treatment for non-aqueous applications. Separation and Purification Technology, 2019, 217, 147-153.	3.9	12
20	Fine-tuning the molecular structure of binaphthalene polyimides for gas separations. European Polymer Journal, 2019, 114, 134-143.	2.6	14
21	Full elemental depth-profiling with nanoscale resolution: The potential of Elastic Recoil Detection (ERD) in membrane science. Journal of Membrane Science, 2019, 572, 102-109.	4.1	6
22	Reversible Optical Writing and Data Storage in an Anthraceneâ€Ł oaded Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2019, 58, 2423-2427.	7.2	102
23	High-performance membranes with full pH-stability. RSC Advances, 2018, 8, 8813-8827.	1.7	49
24	Real-scale chlorination at pH4 of BW30 TFC membranes and their physicochemical characterization. Journal of Membrane Science, 2018, 551, 123-135.	4.1	24
25	Increasing Membrane Permeability by Increasing the Polymer Crystallinity: The Unique Case of Polythiophenes. Macromolecules, 2018, 51, 9943-9950.	2.2	8
26	Reversible Optical Writing and Data Storage in an Anthraceneâ€Ł oaded Metalâ€Organic Framework. Angewandte Chemie, 2018, 131, 2445.	1.6	24
27	The role of MOFs in Thin-Film Nanocomposite (TFN) membranes. Journal of Membrane Science, 2018, 563, 938-948.	4.1	99
28	Chlorine-resistance of reverse osmosis (RO) polyamide membranes. Progress in Polymer Science, 2017, 72, 1-15.	11.8	229
29	Controlled positioning of MOFs in interfacially polymerized thin-film nanocomposites. Journal of Materials Chemistry A, 2016, 4, 16368-16376.	5.2	120