

Neel Rangnekar

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,809
citations

758635

12
h-index

887659

17
g-index

24
all docs

24
docs citations

24
times ranked

2094
citing authors

#	ARTICLE	IF	CITATIONS
1	Zeolite membranes – a review and comparison with MOFs. Chemical Society Reviews, 2015, 44, 7128-7154.	18.7	594
2	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. Nature, 2017, 543, 690-694.	13.7	446
3	Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers. Advanced Materials, 2015, 27, 3243-3249.	11.1	182
4	N-aryl-linked spirocyclic polymers for membrane separations of complex hydrocarbon mixtures. Science, 2020, 369, 310-315.	6.0	139
5	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. Angewandte Chemie - International Edition, 2016, 55, 7184-7187.	7.2	100
6	One-dimensional intergrowths in two-dimensional zeolite nanosheets and their effect on ultra-selective transport. Nature Materials, 2020, 19, 443-449.	13.3	91
7	2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3-nm Thick MFI Zeolite Nanosheets. Angewandte Chemie - International Edition, 2015, 54, 6571-6575.	7.2	67
8	Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. Angewandte Chemie - International Edition, 2017, 56, 535-539.	7.2	50
9	Twin-free, directly synthesized MFI nanosheets with improved thickness uniformity and their use in membrane fabrication. Science Advances, 2022, 8, eabm8162.	4.7	30
10	Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. Angewandte Chemie, 2017, 129, 550-554.	1.6	15
11	Environmental Evaluation of the Improvements for Industrial Scaling of Zeolite Membrane Manufacturing by Life Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2018, 6, 15773-15780.	3.2	15
12	Sub-Micrometer Zeolite Films on Gold-Coated Silicon Wafers with Single-Crystal-Like Dielectric Constant and Elastic Modulus. Advanced Functional Materials, 2017, 27, 1700864.	7.8	11
13	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. Angewandte Chemie, 2016, 128, 7300-7303.	1.6	9
14	Mathematical modeling and parameter estimation of MFI membranes for para/ortho-xylene separation. AIChE Journal, 2021, 67, e17232.	1.8	6
15	Structural Rearrangement of 2-D Zeolite Nanosheets under Electron Beam. Microscopy and Microanalysis, 2015, 21, 1323-1324.	0.2	1
16	Characterization of MEL defects in 2 - Dimensional MFI nanosheets. Microscopy and Microanalysis, 2017, 23, 1802-1803.	0.2	1
17	Zeolite Membranes: Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers (Adv. Mater. 21/2015). Advanced Materials, 2015, 27, 3339-3339.	11.1	0
18	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports (Angew. Chem. 25/2016). Angewandte Chemie, 2016, 128, 7123-7123.	1.6	0

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19	Observation of MEL stacking faults in two-dimensional MFI zeolite nanosheets. <i>Microscopy and Microanalysis</i> , 2016, 22, 1634-1635.	0.2	0
20	Titelbild: Nanoscale Control of Homoepitaxial Growth on a Two-dimensional Zeolite (<i>Angew. Chem.</i>)	1.6	10