

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 | Twin-free, directly synthesized MFI nanosheets with improved thickness uniformity and their use in membrane fabrication. <i>Science Advances</i> , 2022, 8, eabm8162. | 4.7 | 30 |
| 2 | Mathematical modeling and parameter estimation of $\langle \text{MFI} \rangle$ membranes for para/ortho-xylene separation. <i>AIChE Journal</i> , 2021, 67, e17232. | 1.8 | 6 |
| 3 | $\langle \text{N} \rangle$ -Aryl-linked spirocyclic polymers for membrane separations of complex hydrocarbon mixtures. <i>Science</i> , 2020, 369, 310-315. | 6.0 | 139 |
| 4 | One-dimensional intergrowths in two-dimensional zeolite nanosheets and their effect on ultra-selective transport. <i>Nature Materials</i> , 2020, 19, 443-449. | 13.3 | 91 |
| 5 | Environmental Evaluation of the Improvements for Industrial Scaling of Zeolite Membrane Manufacturing by Life Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15773-15780. | 3.2 | 15 |
| 6 | Titelbild: Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite (<i>Angew. Chem.</i>) | 1.6 | 0 |
| 7 | Sub-Micrometer Zeolite Films on Gold-Coated Silicon Wafers with Single-Crystal-Like Dielectric Constant and Elastic Modulus. <i>Advanced Functional Materials</i> , 2017, 27, 1700864. | 7.8 | 11 |
| 8 | Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. <i>Nature</i> , 2017, 543, 690-694. | 13.7 | 446 |
| 9 | Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 535-539. | 7.2 | 50 |
| 10 | Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. <i>Angewandte Chemie</i> , 2017, 129, 550-554. | 1.6 | 15 |
| 11 | Characterization of MEL defects in 2 - Dimensional MFI nanosheets. <i>Microscopy and Microanalysis</i> , 2017, 23, 1802-1803. | 0.2 | 1 |
| 12 | Titelbild: Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports (<i>Angew. Chem.</i> 25/2016). <i>Angewandte Chemie</i> , 2016, 128, 7123-7123. | 1.6 | 0 |
| 13 | Observation of MEL stacking faults in two-dimensional MFI zeolite nanosheets. <i>Microscopy and Microanalysis</i> , 2016, 22, 1634-1635. | 0.2 | 0 |
| 14 | Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7184-7187. | 7.2 | 100 |
| 15 | Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. <i>Angewandte Chemie</i> , 2016, 128, 7300-7303. | 1.6 | 9 |
| 16 | Zeolite Membranes: Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers (<i>Adv. Mater.</i> 21/2015). <i>Advanced Materials</i> , 2015, 27, 3339-3339. | 11.1 | 0 |
| 17 | Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers. <i>Advanced Materials</i> , 2015, 27, 3243-3249. | 11.1 | 182 |
| 18 | Structural Rearrangement of 2-D Zeolite Nanosheets under Electron Beam. <i>Microscopy and Microanalysis</i> , 2015, 21, 1323-1324. | 0.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Zeolite membranes – a review and comparison with MOFs. Chemical Society Reviews, 2015, 44, 7128-7154. | 18.7 | 594 |
| 20 | 2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3-nm Thick MFI Zeolite Nanosheets. Angewandte Chemie - International Edition, 2015, 54, 6571-6575. | 7.2 | 67 |