

# Sebastian Friebe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2634802/publications.pdf>

Version: 2024-02-01

20  
papers

877  
citations

687335

13  
h-index

794568

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of ZIF-8 particle size in the performance of polybenzimidazole mixed matrix membranes for pre-combustion CO <sub>2</sub> capture and its validation through interlaboratory test. Journal of Membrane Science, 2016, 515, 45-53.	8.2	145
2	Metal-Organic Framework UiO-66 Layer: A Highly Oriented Membrane with Good Selectivity and Hydrogen Permeance. ACS Applied Materials & Interfaces, 2017, 9, 12878-12885.	8.0	138
3	Azobenzene Guest Molecules as Light-Switchable CO <sub>2</sub> Valves in an Ultrathin UiO-67 Membrane. Chemistry of Materials, 2017, 29, 3111-3117.	6.7	103
4	Comparative Study of MIL-96(Al) as Continuous Metal-Organic Frameworks Layer and Mixed-Matrix Membrane. ACS Applied Materials & Interfaces, 2016, 8, 7536-7544.	8.0	84
5	Aerogels from CdSe/CdS Nanorods with Ultra-long Exciton Lifetimes and High Fluorescence Quantum Yields. Advanced Materials, 2015, 27, 6152-6156.	21.0	74
6	Sprayable, Large-Area Metal-Organic Framework Films and Membranes of Varying Thickness. Chemistry - A European Journal, 2017, 23, 2294-2298.	3.3	73
7	NH <sub>2</sub> -MIL-125 as membrane for carbon dioxide sequestration: Thin supported MOF layers contra Mixed-Matrix-Membranes. Journal of Membrane Science, 2016, 516, 185-193.	8.2	58
8	Hierarchical Nanostructures of Metal-Organic Frameworks Applied in Gas Separating ZIF-8@ZIF-67 Membranes. Chemistry - A European Journal, 2018, 24, 5728-5733.	3.3	53
9	On the Better Understanding of the Surprisingly High Performance of Metal-Organic Framework-Based Mixed-Matrix Membranes Using the Example of UiO-66 and Matrimid. ACS Applied Materials & Interfaces, 2017, 9, 41553-41558.	8.0	29
10	MOF-Based Mixed-Matrix Membranes in Gas Separation - Mystery and Reality. Chemie-Ingenieur-Technik, 2016, 88, 1788-1797.	0.8	22
11	Propane/propene permeation through Na-X membranes: The interplay of separation performance and pre-synthetic support functionalization. Microporous and Mesoporous Materials, 2015, 215, 20-28.	4.4	21
12	Continuous Separation of Light Olefin/Paraffin Mixtures on ZIF-4 by Pressure Swing Adsorption and Membrane Permeation. Molecules, 2018, 23, 889.	3.8	21
13	On comparing permeation through Matrimid®-based mixed matrix and multilayer sandwich FAU membranes: H <sub>2</sub> /CO <sub>2</sub> separation, support functionalization and ion exchange. International Journal of Hydrogen Energy, 2017, 42, 279-288.	7.1	19
14	Deuterium/hydrogen permeation through different molecular sieve membranes: ZIF, LDH, zeolite. Microporous and Mesoporous Materials, 2015, 216, 127-132.	4.4	12
15	Inverted Fuel Cell: Room-Temperature Hydrogen Separation from an Exhaust Gas by Using a Commercial Short-Circuited PEM Fuel Cell without Applying any Electrical Voltage. Angewandte Chemie - International Edition, 2015, 54, 7790-7794.	13.8	11
16	An Untrodden Path: Versatile Fabrication of Self-Supporting Polymer-Stabilized Percolation Membranes (PSPMs) for Gas Separation. Chemistry - A European Journal, 2017, 23, 6522-6526.	3.3	6
17	Polymer-Stabilized Percolation Membranes Based on Nanosized Zeolitic Imidazolate Frameworks for H <sub>2</sub> /CO <sub>2</sub> Separation. ChemNanoMat, 2018, 4, 698-703.	2.8	4
18	Umgekehrte Brennstoffzelle: Wasserstoffabtrennung aus einem Abgas mithilfe einer kurzgeschlossenen kommerziellen PEM-Brennstoffzelle ohne Anlegen einer ÄuÄyeren Spannung bei Raumtemperatur. Angewandte Chemie, 2015, 127, 7900-7904.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Aerogels: Aerogels from CdSe/CdS Nanorods with Ultra-long Exciton Lifetimes and High Fluorescence Quantum Yields (Adv. Mater. 40/2015). Advanced Materials, 2015, 27, 6151-6151.	21.0	1
20	Frontispiece: Inverted Fuel Cell: Room-temperature Hydrogen Separation from an Exhaust Gas by Using a Commercial Short-circuited PEM Fuel Cell without Applying any Electrical Voltage. Angewandte Chemie - International Edition, 2015, 54, .	13.8	0