

Thomas Schiestel

List of Publications by Year in descending order

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papers

3,739
citations

136950

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123424

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72
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docs citations

72
times ranked

3617
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed-Matrix Membrane Adsorbers for the Simultaneous Removal of Different Pharmaceutical Micropollutants from Water. ACS Applied Polymer Materials, 2022, 4, 1705-1716.	4.4	10
2	Permeation improvement of LCCF hollow fiber membranes by spinning and sintering optimization. Separation and Purification Technology, 2021, 259, 118023.	7.9	12
3	Thermo-responsive mixed-matrix hollow fiber membranes. Journal of Applied Polymer Science, 2021, 138, 50787.	2.6	4
4	Poly(ether sulfone) hollow fiber membranes prepared via nonsolvent-induced phase separation using the green solvent Agnique® AMD 3ÅL. Journal of Applied Polymer Science, 2021, 138, 50935.	2.6	12
5	A novel plasma-assisted hollow fiber membrane concept for efficiently separating oxygen from CO in a CO2 plasma. Chemical Engineering Journal, 2020, 392, 123699.	12.7	33
6	Up-scaling transport in porous polymer membranes using asymptotic homogenization. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 266-289.	2.8	3
7	Influence of surface properties on the dip coating behavior of hollow fiber membranes. Journal of Applied Polymer Science, 2018, 135, 46163.	2.6	9
8	Reconstitution of the membrane protein OmpF into biomimetic block copolymer-phospholipid hybrid membranes. Beilstein Journal of Nanotechnology, 2016, 7, 881-892.	2.8	12
9	Mixed-Matrix Membrane Adsorbers for the Selective Binding of Metal Ions from Diluted Solutions. Chemie-Ingenieur-Technik, 2016, 88, 437-446.	0.8	2
10	Effect of the operating temperature on hydrodynamics and membrane parameters in pressure retarded osmosis. Desalination and Water Treatment, 2016, 57, 10477-10489.	1.0	20
11	Effect of the feed and draw solution temperatures on PRO performance: Theoretical and experimental study. Desalination, 2015, 365, 182-195.	8.2	38
12	Simple method for binding pollutants in water. Membrane Technology, 2015, 2015, 7.	0.1	1
13	Removal of micropollutants from water by nanocomposite membrane adsorbers. Separation and Purification Technology, 2014, 131, 60-68.	7.9	21
14	Impact of Temperature on Power Recovery in Osmotic Power Production by Pressure Retarded Osmosis. Energy Procedia, 2014, 50, 960-969.	1.8	13
15	Evaluation of the Potential of Osmotic Energy as Renewable Energy Source in Realistic Conditions. Energy Procedia, 2013, 42, 261-269.	1.8	7
16	Nanostructured Composite Adsorber Membranes for the Reduction of Trace Substances in Water: The Example of Bisphenol A. Industrial & Engineering Chemistry Research, 2013, 52, 14011-14018.	3.7	16
17	Challenging fabrication of hollow ceramic fiber supported Cu ₃ (BTC) ₂ membrane for hydrogen separation. Journal of Materials Chemistry, 2012, 22, 10322.	6.7	75
18	Chemisorption of carbon dioxide in imidazolium based ionic liquids with carboxylic anions. Chemical Engineering Journal, 2012, 181-182, 152-158.	12.7	88

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19	Gas solubilities in room temperature ionic liquids – Correlation between RTIL-molar mass and Henry's law constant. <i>Chemical Engineering Journal</i> , 2011, 172, 167-176.	12.7	73
20	Dihydrogenimidazole modified silica-sulfonated poly(ether ether ketone) hybrid materials as electrolyte membranes for direct ethanol fuel cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 727-735.	3.5	32
21	Oxidative dehydrogenation of propane in a perovskite membrane reactor with multi-step oxygen insertion. <i>AIChE Journal</i> , 2010, 56, 2390-2396.	3.6	18
22	Hydrogen Production by Water Dissociation in Surface-Modified BaCo _x Fe _y Zr _{1-x-y} O _{3-δ} Hollow-Fiber Membrane Reactor with Improved Oxygen Permeation. <i>Chemistry - A European Journal</i> , 2010, 16, 7898-7903.	3.3	50
23	A Coupling Strategy to Produce Hydrogen and Ethylene in a Membrane Reactor. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5656-5660.	13.8	115
24	Sulfonated poly(ether ether ketone)-based silica nanocomposite membranes for direct ethanol fuel cells. <i>Journal of Membrane Science</i> , 2010, 346, 215-226.	8.2	63
25	Influence of CO ₂ on the oxygen permeation performance of perovskite-type BaCo _x Fe _y Zr _{1-x-y} O _{3-δ} hollow fiber membranes. <i>Journal of Membrane Science</i> , 2010, 364, 132-137.	8.2	58
26	Improved water dissociation and nitrous oxide decomposition by in situ oxygen removal in perovskite catalytic membrane reactor. <i>Catalysis Today</i> , 2010, 156, 187-190.	4.4	41
27	sPEEK based composite membranes for direct ethanol fuel cell applications. <i>Desalination</i> , 2010, 250, 1051-1052.	8.2	4
28	Oxidative Coupling of Methane in a BCFZ Perovskite Hollow Fiber Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10230-10236.	3.7	61
29	High-Purity Oxygen Production from Air Using Perovskite Hollow Fiber Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9377-9384.	3.7	32
30	Oxygen selective ceramic hollow fiber membranes for partial oxidation of methane. <i>AIChE Journal</i> , 2009, 55, 2657-2664.	3.6	52
31	Oxidative Dehydrierung niederer Alkane in einem selektiven Membranreaktor mit gestufter Sauerstoffzugabe und In-situ-Wasserstoffoxidation. <i>Chemie-Ingenieur-Technik</i> , 2009, 81, 1591-1597.	0.8	4
32	Direct Decomposition of Nitrous Oxide to Nitrogen by In-situ Oxygen Removal with a Perovskite Membrane. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2983-2986.	13.8	130
33	Behavior of sulfonated poly(ether ether ketone) in ethanol-water systems. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2998-3009.	2.6	11
34	Olefin Production by a Multistep Oxidative Dehydrogenation in a Perovskite Hollow-Fiber Membrane Reactor. <i>ChemCatChem</i> , 2009, 1, 401-405.	3.7	37
35	Development of Direct Ethanol Fuel Cell Membrane Electrode Assemblies Using Sulfonated Polyetheretherketone Mixed-Matrix Membranes. <i>ECS Transactions</i> , 2009, 25, 1685-1695.	0.5	0
36	Highly effective NO decomposition by in situ removal of inhibitor oxygen using an oxygen transporting membrane. <i>Chemical Communications</i> , 2009, , 6738.	4.1	48

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37	Simultaneous Production of Hydrogen and Synthesis Gas by Combining Water Splitting with Partial Oxidation of Methane in a Hollow-Fiber Membrane Reactor. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9341-9344.	13.8	204
38	Catalytic Membrane Reactors for Partial Oxidation Using Perovskite Hollow Fiber Membranes and for Partial Hydrogenation Using a Catalytic Membrane Contactor. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2286-2294.	3.7	80
39	Partial oxidation of methane to syngas in a perovskite hollow fiber membrane reactor. <i>Catalysis Communications</i> , 2006, 7, 907-912.	3.3	67
40	Perovskite hollow fibre membranes in the partial oxidation of methane to synthesis gas in a membrane reactor. <i>Desalination</i> , 2006, 199, 415-417.	8.2	22
41	Can inorganic membranes compete with organic ones? Perovskite hollow fibres for O ₂ -separation and supported H ₂ -selective zeolite membranes. <i>Desalination</i> , 2006, 199, 365-367.	8.2	2
42	Dense perovskite hollow fibre membranes. <i>Desalination</i> , 2006, 199, 355-356.	8.2	6
43	Palladium coated ceramic hollow fibre membranes for hydrogen separation. <i>Desalination</i> , 2006, 200, 95-96.	8.2	11
44	Surface-modified metal membrane for membrane contactor application. <i>Desalination</i> , 2006, 200, 449-450.	8.2	2
45	Proton conducting composite membranes with low ethanol crossover for DEFC. <i>Desalination</i> , 2006, 200, 662-663.	8.2	8
46	Hollow fiber membrane reactors for the oxidative activation of ethane. <i>Catalysis Today</i> , 2006, 118, 98-103.	4.4	57
47	Novel hollow fibre membrane reactor for the partial oxidation of methane. <i>Catalysis Today</i> , 2006, 118, 44-51.	4.4	39
48	Evaluation of perovskites in hollow fibre and disk geometry in catalytic membrane reactors and in oxygen separators. <i>Catalysis Today</i> , 2006, 118, 128-135.	4.4	45
49	Experimental and modeling study of the O ₂ -enrichment by perovskite fibers. <i>AIChE Journal</i> , 2006, 52, 3118-3125.	3.6	34
50	Mixed oxygen ion and electron conducting hollow fiber membranes for oxygen separation. <i>Solid State Ionics</i> , 2006, 177, 2255-2259.	2.7	34
51	Production of high-purity oxygen by perovskite hollow fiber membranes swept with steam. <i>Journal of Membrane Science</i> , 2006, 284, 5-8.	8.2	41
52	Hollow fibre perovskite membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2005, 258, 1-4.	8.2	213
53	Oxygen permeation study of perovskite hollow fiber membranes. <i>Catalysis Today</i> , 2005, 104, 126-130.	4.4	56
54	Perovskite Hollow-Fiber Membranes for the Production of Oxygen-Enriched Air. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6906-6909.	13.8	157

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55	Tumor Necrosis Factor (TNF)-Functionalized Nanostructured Particles for the Stimulation of Membrane TNF-Specific Cell Responses. <i>Bioconjugate Chemistry</i> , 2005, 16, 1459-1467.	3.6	29
56	Controlled Surface Functionalization of Silica Nanospheres by Covalent Conjugation Reactions and Preparation of High Density Streptavidin Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 504-511.	0.9	85
57	Development of an MHC-class I peptide selection assay combining nanoparticle technology and matrix-assisted laser desorption/ionisation mass spectrometry. <i>Journal of Immunological Methods</i> , 2003, 283, 205-213.	1.4	8
58	Silica nanoparticles modified with aminosilanes as carriers for plasmid DNA. <i>International Journal of Pharmaceutics</i> , 2000, 196, 257-261.	5.2	261
59	A Nonviral DNA Delivery System Based on Surface Modified Silica-Nanoparticles Can Efficiently Transfect Cells in Vitro. <i>Bioconjugate Chemistry</i> , 2000, 11, 926-932.	3.6	319
60	Endocytosis of dextran and silan-coated magnetite nanoparticles and the effect of intracellular hyperthermia on human mammary carcinoma cells in vitro. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 194, 185-196.	2.3	485
61	Host-guest supramolecular chemistry. 34. The incremental approach to noncovalent interactions: coulomb and van der Waals effects in organic ion pairs. <i>Journal of the American Chemical Society</i> , 1992, 114, 7698-7703.	13.7	149
62	Energy recovery using salinity differences in a multi-effect distillation system. <i>Desalination and Water Treatment</i> , 0, , 1-8.	1.0	8
63	Acid catalyzed crosslinking of polyvinyl alcohol for humidifier membranes. <i>Journal of Applied Polymer Science</i> , 0, , 51606.	2.6	7