

Thomas Schiestel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4892213/publications.pdf>

Version: 2024-02-01

63
papers

3,739
citations

136950

32
h-index

123424

61
g-index

72
all docs

72
docs citations

72
times ranked

3617
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Silica nanoparticles modified with aminosilanes as carriers for plasmid DNA. <i>International Journal of Pharmaceutics</i> , 2000, 196, 257-261.	5.2	261
4	Hollow fibre perovskite membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2005, 258, 1-4.	8.2	213
5	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
6	Perovskite Hollow-Fiber Membranes for the Production of Oxygen-Enriched Air. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6906-6909.	13.8	157
7	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
8	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
9	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
10	Chemisorption of carbon dioxide in imidazolium based ionic liquids with carboxylic anions. <i>Chemical Engineering Journal</i> , 2012, 181-182, 152-158.	12.7	88
11	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
12	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
13	Challenging fabrication of hollow ceramic fiber supported Cu ₃ (BTC) ₂ membrane for hydrogen separation. <i>Journal of Materials Chemistry</i> , 2012, 22, 10322.	6.7	75
14	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
15	Partial oxidation of methane to syngas in a perovskite hollow fiber membrane reactor. <i>Catalysis Communications</i> , 2006, 7, 907-912.	3.3	67
16	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
17	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
18	Influence of CO ₂ on the oxygen permeation performance of perovskite-type BaCo _x FeyZr _z O _{3-δ} hollow fiber membranes. <i>Journal of Membrane Science</i> , 2010, 364, 132-137.	8.2	58

#	ARTICLE	IF	CITATIONS
19	Hollow fiber membrane reactors for the oxidative activation of ethane. <i>Catalysis Today</i> , 2006, 118, 98-103.	4.4	57
20	Oxygen permeation study of perovskite hollow fiber membranes. <i>Catalysis Today</i> , 2005, 104, 126-130.	4.4	56
21	Oxygen selective ceramic hollow fiber membranes for partial oxidation of methane. <i>AIChE Journal</i> , 2009, 55, 2657-2664.	3.6	52
22	Hydrogen Production by Water Dissociation in Surface-Modified $\text{BaCo}_{1-x}\text{Fe}_x\text{ZrO}_{3-\delta}$ Hollow-Fiber Membrane Reactor with Improved Oxygen Permeation. <i>Chemistry - A European Journal</i> , 2010, 16, 7898-7903.	3.3	50
23	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
24	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
25	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
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	Novel hollow fibre membrane reactor for the partial oxidation of methane. <i>Catalysis Today</i> , 2006, 118, 44-51.	4.4	39
28	Effect of the feed and draw solution temperatures on PRO performance: Theoretical and experimental study. <i>Desalination</i> , 2015, 365, 182-195.	8.2	38
29	Olefin Production by a Multistep Oxidative Dehydrogenation in a Perovskite Hollow-Fiber Membrane Reactor. <i>ChemCatChem</i> , 2009, 1, 401-405.	3.7	37
30	Experimental and modeling study of the O ₂ -enrichment by perovskite fibers. <i>AIChE Journal</i> , 2006, 52, 3118-3125.	3.6	34
31	Mixed oxygen ion and electron conducting hollow fiber membranes for oxygen separation. <i>Solid State Ionics</i> , 2006, 177, 2255-2259.	2.7	34
32	A novel plasma-assisted hollow fiber membrane concept for efficiently separating oxygen from CO in a CO ₂ plasma. <i>Chemical Engineering Journal</i> , 2020, 392, 123699.	12.7	33
33	High-Purity Oxygen Production from Air Using Perovskite Hollow Fiber Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9377-9384.	3.7	32
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Removal of micropollutants from water by nanocomposite membrane adsorbers. Separation and Purification Technology, 2014, 131, 60-68.	7.9	21
38	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
39	Oxidative dehydrogenation of propane in a perovskite membrane reactor with multi-step oxygen insertion. AIChE Journal, 2010, 56, 2390-2396.	3.6	18
40	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
41	Impact of Temperature on Power Recovery in Osmotic Power Production by Pressure Retarded Osmosis. Energy Procedia, 2014, 50, 960-969.	1.8	13
42	Reconstitution of the membrane protein OmpF into biomimetic block copolymer-phospholipid hybrid membranes. Beilstein Journal of Nanotechnology, 2016, 7, 881-892.	2.8	12
43	Permeation improvement of LCCF hollow fiber membranes by spinning and sintering optimization. Separation and Purification Technology, 2021, 259, 118023.	7.9	12
44	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
45	Palladium coated ceramic hollow fibre membranes for hydrogen separation. Desalination, 2006, 200, 95-96.	8.2	11
46	Behavior of sulfonated poly(ether ether ketone) in ethanol-water systems. Journal of Applied Polymer Science, 2009, 111, 2998-3009.	2.6	11
47	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
48	Influence of surface properties on the dip coating behavior of hollow fiber membranes. Journal of Applied Polymer Science, 2018, 135, 46163.	2.6	9
49	Development of an MHC-class I peptide selection assay combining nanoparticle technology and matrix-assisted laser desorption/ionisation mass spectrometry. Journal of Immunological Methods, 2003, 283, 205-213.	1.4	8
50	Proton conducting composite membranes with low ethanol crossover for DEFC. Desalination, 2006, 200, 662-663.	8.2	8
51	Energy recovery using salinity differences in a multi-effect distillation system. Desalination and Water Treatment, 0, , 1-8.	1.0	8
52	Evaluation of the Potential of Osmotic Energy as Renewable Energy Source in Realistic Conditions. Energy Procedia, 2013, 42, 261-269.	1.8	7
53	Acid catalyzed crosslinking of polyvinyl alcohol for humidifier membranes. Journal of Applied Polymer Science, 0, , 51606.	2.6	7
54	Dense perovskite hollow fibre membranes. Desalination, 2006, 199, 355-356.	8.2	6

#	ARTICLE	IF	CITATIONS
55	Oxidative Dehydrierung niederer Alkane in einem selektiven Membranreaktor mit gestufter Sauerstoffzugabe und In-situ-Wasserstoffoxidation. Chemie-Ingenieur-Technik, 2009, 81, 1591-1597.	0.8	4
56	sPEEK based composite membranes for direct ethanol fuel cell applications. Desalination, 2010, 250, 1051-1052.	8.2	4
57	Thermo-responsive mixed-matrix hollow fiber membranes. Journal of Applied Polymer Science, 2021, 138, 50787.	2.6	4
58	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
59	Can inorganic membranes compete with organic ones? Perovskite hollow fibres for O ₂ -separation and supported H ₂ -selective zeolite membranes. Desalination, 2006, 199, 365-367.	8.2	2
60	Surface-modified metal membrane for membrane contactor application. Desalination, 2006, 200, 449-450.	8.2	2
61	Mixed-Matrix Membrane Adsorbers for the Selective Binding of Metal Ions from Diluted Solutions. Chemie-Ingenieur-Technik, 2016, 88, 437-446.	0.8	2
62	Simple method for binding pollutants in water. Membrane Technology, 2015, 2015, 7.	0.1	1
63	Development of Direct Ethanol Fuel Cell Membrane Electrode Assemblies Using Sulfonated Polyetheretherketone Mixed-Matrix Membranes. ECS Transactions, 2009, 25, 1685-1695.	0.5	0