

Anne C Julbe

List of Publications by Year in descending order

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171
papers

5,640
citations

81743

39
h-index

95083

68
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173
all docs

173
docs citations

173
times ranked

6135
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF-Based Membrane Encapsulated ZnO Nanowires for Enhanced Gas Sensor Selectivity. ACS Applied Materials & Interfaces, 2016, 8, 8323-8328.	4.0	346
2	Porous ceramic membranes for catalytic reactors – overview and new ideas. Journal of Membrane Science, 2001, 181, 3-20.	4.1	314
3	A short overview on purification and conditioning of syngas produced by biomass gasification: Catalytic strategies, process intensification and new concepts. Progress in Energy and Combustion Science, 2012, 38, 765-781.	15.8	234
4	Investigation of reactive cerium-based oxides for H ₂ production by thermochemical two-step water-splitting. Journal of Materials Science, 2010, 45, 4163-4173.	1.7	207
5	Inorganic membranes and solid state sciences. Solid State Sciences, 2000, 2, 313-334.	1.5	141
6	High-Performance Nanowire Hydrogen Sensors by Exploiting the Synergistic Effect of Pd Nanoparticles and Metal-Organic Framework Membranes. ACS Applied Materials & Interfaces, 2018, 10, 34765-34773.	4.0	135
7	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. Chemistry of Materials, 2018, 30, 7368-7390.	3.2	133
8	Long term pervaporation desalination of tubular MFI zeolite membranes. Journal of Membrane Science, 2012, 415-416, 816-823.	4.1	119
9	In situ generation of Ni metal nanoparticles as catalyst for H ₂ -rich syngas production from biomass gasification. Applied Catalysis A: General, 2010, 382, 220-230.	2.2	117
10	Novel B-site ordered double perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O _{6x} for highly efficient oxygen reduction reaction. Energy and Environmental Science, 2011, 4, 872-875.	15.6	112
11	Pyrolysis of metal impregnated biomass: An innovative catalytic way to produce gas fuel. Journal of Analytical and Applied Pyrolysis, 2007, 78, 291-300.	2.6	100
12	Highly crystalline MOF-based materials grown on electrospun nanofibers. Nanoscale, 2015, 7, 5794-5802.	2.8	95
13	Catalytic Investigation of in Situ Generated Ni Metal Nanoparticles for Tar Conversion during Biomass Pyrolysis. Journal of Physical Chemistry C, 2013, 117, 23812-23831.	1.5	94
14	An innovative approach for the preparation of confined ZIF-8 membranes by conversion of ZnO ALD layers. Journal of Membrane Science, 2015, 475, 39-46.	4.1	92
15	The sol-gel approach to prepare candidate microporous inorganic membranes for membrane reactors. Journal of Membrane Science, 1993, 77, 137-153.	4.1	91
16	Rapid synthesis of silicalite-1 seeds by microwave assisted hydrothermal treatment. Microporous and Mesoporous Materials, 2005, 80, 73-83.	2.2	86
17	Rapid synthesis of oriented silicalite-1 membranes by microwave-assisted hydrothermal treatment. Microporous and Mesoporous Materials, 2006, 92, 259-269.	2.2	84
18	Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. Chemistry of Materials, 2011, 23, 4193-4198.	3.2	80

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19	Design of nanosized structures in sol-gel derived porous solids. Applications in catalyst and inorganic membrane preparation. <i>Journal of Materials Chemistry</i> , 1999, 9, 55-65.	6.7	75
20	Characteristics and performance in the oxidative dehydrogenation of propane of MFI and V-MFI zeolite membranes. <i>Catalysis Today</i> , 2000, 56, 199-209.	2.2	74
21	Catalytic effect of metal nitrate salts during pyrolysis of impregnated biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 113, 143-152.	2.6	74
22	Silica membranes by the sol-gel process. <i>Journal of Membrane Science</i> , 1989, 44, 289-303.	4.1	72
23	Potentiality of organic solvents filtration with ceramic membranes. A comparison with polymer membranes. <i>Desalination</i> , 2002, 147, 275-280.	4.0	71
24	Non-Stoichiometric Redox Active Perovskite Materials for Solar Thermochemical Fuel Production: A Review. <i>Catalysts</i> , 2018, 8, 611.	1.6	67
25	Solar thermochemical fuel production from H ₂ O and CO ₂ splitting via two-step redox cycling of reticulated porous ceria structures integrated in a monolithic cavity-type reactor. <i>Energy</i> , 2020, 201, 117649.	4.5	59
26	Synthesis of sodalite/Al ₂ O ₃ composite membranes by microwave heating. <i>Separation and Purification Technology</i> , 2003, 32, 139-149.	3.9	58
27	Limitations and potentials of oxygen transport dense and porous ceramic membranes for oxidation reactions. <i>Catalysis Today</i> , 2005, 104, 102-113.	2.2	57
28	Synthesis of PECVD a-SiC _x N _y :H membranes as molecular sieves for small gas separation. <i>Journal of Membrane Science</i> , 2009, 329, 130-137.	4.1	56
29	Microwave-assisted hydrothermal rapid synthesis of capillary MFI-type zeolite ceramic membranes for pervaporation application. <i>Journal of Membrane Science</i> , 2010, 355, 28-35.	4.1	56
30	PVDF-MFI mixed matrix membranes as VOCs adsorbers. <i>Microporous and Mesoporous Materials</i> , 2015, 207, 126-133.	2.2	53
31	Synthesis and characterization of silicon carbonitride films by plasma enhanced chemical vapor deposition (PECVD) using bis(dimethylamino)dimethylsilane (BDMADMS), as membrane for a small molecule gas separation. <i>Applied Surface Science</i> , 2010, 257, 1196-1203.	3.1	50
32	Binary iron cobalt oxide silica membrane for gas separation. <i>Journal of Membrane Science</i> , 2015, 474, 32-38.	4.1	50
33	Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O ₆ Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2011, 23, 1618-1624.	3.2	49
34	Design of a novel fuel cell-Fenton system: a smart approach to zero energy depollution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17686-17693.	5.2	47
35	A microporous zirconia membrane prepared by the sol-gel process from zirconyl oxalate. <i>Journal of Membrane Science</i> , 1994, 86, 95-102.	4.1	45
36	Effect of non-ionic surface active agents on TEOS-derived sols, gels and materials. <i>Journal of Sol-Gel Science and Technology</i> , 1995, 4, 89-97.	1.1	43

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37	Sol-gel derived silica membranes with tailored microporous structures. <i>Catalysis Today</i> , 1995, 25, 219-224.	2.2	42
38	Nitrogen-Doped Graphitized Carbon Electrodes for Biorefractory Pollutant Removal. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15188-15197.	1.5	41
39	Ultra-rapid production of MFI membranes by coupling microwave-assisted synthesis with either ozone or calcination treatment. <i>Microporous and Mesoporous Materials</i> , 2007, 99, 197-205.	2.2	40
40	Copper oxide - perovskite mixed matrix membranes delivering very high oxygen fluxes. <i>Journal of Membrane Science</i> , 2017, 526, 323-333.	4.1	40
41	Study of lanthanum-based colloidal sols formation. <i>Journal of Materials Science</i> , 1994, 29, 4244-4251.	1.7	38
42	Evaluation of sol-gel methods for the synthesis of doped-ceria environmental catalysis systems. Part I: preparation of coatings. <i>Journal of the European Ceramic Society</i> , 2002, 22, 15-25.	2.8	38
43	Remarkable performance of microstructured ceria foams for thermochemical splitting of H ₂ O and CO ₂ in a novel high-temperature solar reactor. <i>Chemical Engineering Research and Design</i> , 2020, 156, 311-323.	2.7	38
44	Oxidative dehydrogenation of propane on V/Al ₂ O ₃ catalytic membranes. Effect of the type of membrane and reactant feed configuration. <i>Chemical Engineering Science</i> , 1999, 54, 1265-1272.	1.9	37
45	Design and fabrication of highly selective H ₂ sensors based on SIM-1 nanomembrane-coated ZnO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 410-418.	4.0	37
46	Atomic layer deposition (ALD) on inorganic or polymeric membranes. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	36
47	Application of Fe-MFI zeolite catalyst in heterogeneous electro-Fenton process for water pollutants abatement. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 64-69.	2.2	36
48	One pot synthesis of hierarchical porous silica membrane material with dispersed Pt nanoparticles using a microwave-assisted sol-gel route. <i>Journal of Materials Chemistry</i> , 2008, 18, 4274.	6.7	35
49	Synthesis and characterization of a mordenite membrane on an γ -Al ₂ O ₃ tubular support. <i>Journal of Materials Chemistry</i> , 2000, 10, 1131-1137.	6.7	34
50	Synthesis and characterization of microporous silica-alumina membranes. <i>Journal of Porous Materials</i> , 2010, 17, 259-263.	1.3	34
51	Recent progress on ceria doping and shaping strategies for solar thermochemical water and CO ₂ splitting cycles. <i>AIMS Materials Science</i> , 2019, 6, 657-684.	0.7	34
52	Zeolite Membranes – Synthesis, Characterization and Application. <i>Studies in Surface Science and Catalysis</i> , 2007, , 181-219.	1.5	33
53	Iron Oxide Silica Derived from Sol-Gel Synthesis. <i>Materials</i> , 2011, 4, 448-456.	1.3	33
54	New approaches in the design of ceramic and hybrid membranes. <i>Journal of Membrane Science</i> , 2008, 316, 176-185.	4.1	32

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55	Evaluation of porous ceramic membranes as O ₂ distributors for the partial oxidation of alkanes in inert membrane reactors. <i>Separation and Purification Technology</i> , 2001, 25, 137-149.	3.9	31
56	Biomass Gasification to Produce Syngas. , 2015, , 213-250.		31
57	Fe-Nanoporous Carbon Derived from MIL-53(Fe): A Heterogeneous Catalyst for Mineralization of Organic Pollutants. <i>Nanomaterials</i> , 2019, 9, 641.	1.9	31
58	Hydrolysis of mixed titanium and zirconium alkoxides by an esterification reaction. <i>Journal of Solid State Chemistry</i> , 1992, 98, 393-403.	1.4	30
59	Catalytic deoxygenation of model compounds from flash pyrolysis of lignocellulosic biomass over activated charcoal-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 517-525.	10.8	30
60	Effect of boric acid addition in colloidal sol-gel derived SiC precursors. <i>Materials Research Bulletin</i> , 1990, 25, 601-609.	2.7	29
61	Preparation of composite zeolite membrane separator/contactor for ozone water treatment. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 137-146.	2.2	29
62	Hydrogen selective palladium-alumina composite membranes prepared by Atomic Layer Deposition. <i>Journal of Membrane Science</i> , 2020, 596, 117701.	4.1	29
63	Two-step CO ₂ and H ₂ O splitting using perovskite-coated ceria foam for enhanced green fuel production in a porous volumetric solar reactor. <i>Journal of CO₂ Utilization</i> , 2020, 41, 101257.	3.3	29
64	Functionalization of 3D printed ABS filters with MOF for toxic gas removal. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 89, 194-203.	2.9	29
65	Nafion®/H-ZSM-5 composite membranes with superior performance for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2009, 338, 75-83.	4.1	27
66	Vacuum seeding and secondary growth route to sodalite membrane. <i>Thin Solid Films</i> , 2006, 495, 92-96.	0.8	26
67	Effect of synthesis conditions on the pore structure and degree of heteroatom insertion in Zr-doped SBA-15 silica-based materials prepared by classical or microwave-assisted hydrothermal treatment. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 111-118.	2.2	26
68	Evaluation of sol-gel methods for the synthesis of doped-ceria environmental catalysis systems. <i>Applied Catalysis B: Environmental</i> , 2001, 34, 149-159.	10.8	25
69	Estimation of pore size distribution in MCM-41-type silica using a simple desorption technique. <i>Adsorption</i> , 2011, 17, 911-918.	1.4	25
70	Hierarchical Porous Polybenzimidazole Microsieves: An Efficient Architecture for Anhydrous Proton Transport via Polyionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14844-14857.	4.0	24
71	Novel inorganic membrane for the percrystallization of mineral, food and pharmaceutical compounds. <i>Journal of Membrane Science</i> , 2018, 550, 407-415.	4.1	24
72	Hierarchical porous silica membranes with dispersed Pt nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2009, 126, 222-227.	2.2	23

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73	Controlled growth of thin and uniform TS-1 membranes by MW-assisted heating. <i>Microporous and Mesoporous Materials</i> , 2010, 128, 136-143.	2.2	23
74	Lanthanum manganite perovskite ceramic powders for CO ₂ splitting: Influence of Pechini synthesis parameters on sinterability and reactivity. <i>Ceramics International</i> , 2019, 45, 15636-15648.	2.3	23
75	Synthesis and oxygen transport characteristics of dense and porous cerium/gadolinium oxide materials. <i>Catalysis Today</i> , 2005, 104, 120-125.	2.2	22
76	Microporous Silica Membrane: Basic Principles and Recent Advances. <i>Membrane Science and Technology</i> , 2008, 13, 33-79.	0.5	22
77	Coupling microwave-assisted and classical heating methods for scaling-up MFI zeolite membrane synthesis. <i>Journal of Membrane Science</i> , 2012, 401-402, 144-151.	4.1	22
78	Synthesis and structural study of a tetranuclear magnesium alkoxide: [Mg ₄ (μ_3 , μ_2 -OR) ₂ (μ_2 , μ_2 -OR) ₄ (OR) ₂] with OR-OCH(CH ₃)CH ₂ OCH ₃ . <i>Polyhedron</i> , 1997, 16, 587-592.	1.0	20
79	Catalytic membrane reactor for oxidative coupling of methane. Part 1: preparation and characterisation of LaOCl membranes. <i>Catalysis Today</i> , 1995, 25, 225-230.	2.2	19
80	Catalytic membrane reactor for oxidative coupling of methane. Part II "Catalytic properties of LaOCl membranes. <i>Catalysis Today</i> , 1995, 25, 377-383.	2.2	19
81	The chemical valve membrane: a new concept for an auto-regulation of O ₂ distribution in membrane reactors. <i>Catalysis Today</i> , 2001, 67, 139-149.	2.2	19
82	Synthesis and encapsulation of yttria stabilized zirconia particles in supercritical carbon dioxide. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1195-1203.	2.8	18
83	Gas permeation redox effect of binary iron oxide/cobalt oxide silica membranes. <i>Separation and Purification Technology</i> , 2016, 171, 248-255.	3.9	18
84	Chapter 4 Methods for the characterisation of porous structure in membrane materials. <i>Membrane Science and Technology</i> , 1996, , 67-118.	0.5	17
85	Catalytic membrane materials with a hierarchical porosity and their performance in total oxidation of propene. <i>Catalysis Today</i> , 2010, 156, 216-222.	2.2	17
86	Improving the kinetics of the CO ₂ gasification of char through the catalyst/biomass integration concept. <i>Fuel</i> , 2015, 154, 217-221.	3.4	17
87	Fine control of NaCl crystal size and particle size in percrystallisation by tuning the morphology of carbonised sucrose membranes. <i>Journal of Membrane Science</i> , 2018, 567, 157-165.	4.1	17
88	Mobility of cyclohexane in a microporous silica sample: a quasielastic neutron scattering and NMR pulsed-field gradient technique study. <i>Journal of Membrane Science</i> , 1995, 108, 71-78.	4.1	16
89	Zeolite membranes " A short overview. <i>Studies in Surface Science and Catalysis</i> , 2005, 157, 135-160.	1.5	16
90	Title is missing!. <i>Journal of Porous Materials</i> , 1999, 6, 41-54.	1.3	15

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91	The application of transient time-lag method for the diffusion coefficient estimation on zeolite composite membranes. <i>Separation and Purification Technology</i> , 2001, 25, 467-474.	3.9	15
92	Synthesis of capillary titanosilicalite TS-1 ceramic membranes by MW-assisted hydrothermal heating for pervaporation application. <i>Separation and Purification Technology</i> , 2010, 75, 249-256.	3.9	15
93	Initial Steps toward the Development of Grafted Ionic Liquid Membranes for the Selective Transport of CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16027-16040.	1.8	15
94	Novel membrane percrystallisation process for nickel sulphate production. <i>Hydrometallurgy</i> , 2019, 185, 210-217.	1.8	15
95	Demonstration of a ceria membrane solar reactor promoted by dual perovskite coatings for continuous and isothermal redox splitting of CO ₂ and H ₂ O. <i>Journal of Membrane Science</i> , 2021, 634, 119387.	4.1	15
96	Thermochemical solar-driven reduction of CO ₂ into separate streams of CO and O ₂ via an isothermal oxygen-conducting ceria membrane reactor. <i>Chemical Engineering Journal</i> , 2021, 422, 130026.	6.6	15
97	Soft-Chemistry Synthesis, Characterization, and Stabilization of CGO/Al ₂ O ₃ /Pt Nanostructured Composite Powders. <i>Journal of the American Ceramic Society</i> , 2007, 90, 942-949.	1.9	14
98	About the role of adsorption in inorganic and composite membranes. <i>Current Opinion in Chemical Engineering</i> , 2019, 24, 88-97.	3.8	14
99	Synthesis and thermochemical redox cycling of porous ceria microspheres for renewable fuels production from solar-aided water-splitting and CO ₂ utilization. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	14
100	Investigation of reactive perovskite materials for solar fuel production via two-step redox cycles: Thermochemical activity, thermodynamic properties and reduction kinetics. <i>Materials Chemistry and Physics</i> , 2022, 276, 125358.	2.0	14
101	Sol-gel processing of inorganic membranes. <i>Journal of Sol-Gel Science and Technology</i> , 1994, 2, 483-487.	1.1	13
102	Measurement of the diffusivity of benzene in microporous silica by quasi-elastic neutron scattering and NMR pulsed-field gradient technique. <i>Adsorption</i> , 1995, 1, 197-201.	1.4	13
103	Design of Phosphonated Imidazolium-Based Ionic Liquids Grafted on $\hat{\text{I}}^3$ -Alumina: Potential Model for Hybrid Membranes. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1212.	1.8	13
104	Nanostructures in sol-gel derived materials: application to the elaboration of nanofiltration membranes. <i>Journal of Alloys and Compounds</i> , 1992, 188, 8-13.	2.8	12
105	The First Redox Switchable Ceramic Membrane. <i>Journal of the American Chemical Society</i> , 2000, 122, 12592-12593.	6.6	12
106	An insight into the structure-property relationships of PECVD Si _x N _y (O):H materials. <i>Microporous and Mesoporous Materials</i> , 2014, 191, 97-102.	2.2	12
107	Controlled grafting of dialkylphosphonate-based ionic liquids on $\hat{\text{I}}^3$ -alumina: design of hybrid materials with high potential for CO ₂ separation applications. <i>RSC Advances</i> , 2019, 9, 19882-19894.	1.7	12
108	Synthesis of ceria based ion conducting mesoporous membranes by soft-chemistry. <i>Separation and Purification Technology</i> , 2003, 32, 327-333.	3.9	11

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109	Potentialities of the sol-gel route to develop cathode and electrolyte thick layers. <i>Surface and Coatings Technology</i> , 2008, 203, 901-904.	2.2	11
110	Yttria stabilized zirconia synthesis in supercritical CO ₂ : Understanding of particle formation mechanisms in CO ₂ /co-solvent systems. <i>Journal of the European Ceramic Society</i> , 2010, 30, 1691-1698.	2.8	11
111	Evaluation of a new supercritical CO ₂ -assisted deposition method for preparing gas selective polymer/zeolite composite membranes. <i>Journal of Membrane Science</i> , 2013, 429, 428-435.	4.1	10
112	Environmental mineralization of caffeine micro-pollutant by Fe-MFI zeolites. <i>Environmental Science and Pollution Research</i> , 2018, 25, 3628-3635.	2.7	10
113	Microfiltration through an infiltrated and a noninfiltrated inorganic composite membrane. <i>Journal of Membrane Science</i> , 1994, 97, 127-138.	4.1	9
114	Gas-solid oxidations with RuO ₂ -TiO ₂ and RuO ₂ -SiO ₂ membranes. <i>Catalysis Today</i> , 1995, 25, 385-389.	2.2	9
115	Investigation of sol-gel methods for the synthesis of VPO membrane materials adapted to the partial oxidation of n-butane. <i>Catalysis Today</i> , 2000, 56, 211-220.	2.2	9
116	Synthesis and characterisation of a vanadium-based "chemical valve" membrane. <i>Separation and Purification Technology</i> , 2001, 25, 11-24.	3.9	9
117	Optimization of the molecular sieving properties of amorphous SiCN:H hydrogen selective membranes prepared by PECVD. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1935-1943.	1.2	9
118	Microwave PECVD Silicon Carbonitride Thin Films: A FTIR and Ellipsoporosimetry Study. <i>Plasma Processes and Polymers</i> , 2016, 13, 258-265.	1.6	9
119	Porous Pt/SiO ₂ catalytic membranes prepared using mesitylene solvated Pt atoms as a source of Pt particles. <i>Catalysis Today</i> , 1995, 25, 249-253.	2.2	8
120	Role of membranes and membrane reactors in the hydrogen supply of fuel cells. <i>Annales De Chimie: Science Des Materiaux</i> , 2001, 26, 79-92.	0.2	8
121	Novel microwave assisted approach to large scale nickel nanoparticle fabrication. <i>Chemical Engineering Journal</i> , 2014, 240, 155-160.	6.6	8
122	Temperature dependent transition point of purity versus flux for gas separation in Fe/Co-silica membranes. <i>Separation and Purification Technology</i> , 2015, 151, 284-291.	3.9	8
123	Gas Adsorption in Zeolite and Thin Zeolite Layers: Molecular Simulation, Experiment, and Adsorption Potential Theory. <i>Langmuir</i> , 2022, 38, 5428-5438.	1.6	8
124	Computer Simulation of Inorganic Membrane Morphology. <i>Journal of Colloid and Interface Science</i> , 1993, 161, 384-388.	5.0	7
125	Nanophase ceramic ion transport membranes for oxygen separation and gas stream enrichment. <i>Membrane Science and Technology</i> , 2000, 6, 435-471.	0.5	7
126	Effect of Gas Adsorption on Acoustic Wave Propagation in MFI Zeolite Membrane Materials: Experiment and Molecular Simulation. <i>Langmuir</i> , 2014, 30, 10336-10343.	1.6	7

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127	Potential of sub- and supercritical CO ₂ reaction media for sol-gel deposition of silica-based molecular sieve membranes. Separation and Purification Technology, 2014, 121, 30-37.	3.9	7
128	Zeolite A Type. , 2016, , 2055-2056.		7
129	Characterization of SiO ₂ Thin Film Obtained by the Sol-Gel Route from TEOS and Triton X45. Langmuir, 1995, 11, 3970-3974.	1.6	6
130	Synthesis and properties of MFI zeolite membranes prepared by microwave assisted secondary growth, from microwave derived seeds. Studies in Surface Science and Catalysis, 2005, 158, 129-136.	1.5	6
131	Evaluation of a new On-Stream Supercritical Fluid Deposition process for sol-gel preparation of silica-based membranes on tubular supports. Journal of Supercritical Fluids, 2013, 77, 17-24.	1.6	6
132	Vibrational frequencies of hydrogenated silicon carbonitride: A DFT study. Surface and Coatings Technology, 2017, 325, 437-444.	2.2	6
133	Exploring the Gas-Permeation Properties of Proton-Conducting Membranes Based on Protic Imidazolium Ionic Liquids: Application in Natural Gas Processing. Membranes, 2018, 8, 75.	1.4	6
134	Oxovanadium(V)-1-methoxy-2-propanoxide: synthesis and spectroscopic studies - a molecular precursor for a vanadium-magnesium oxide catalyst. Polyhedron, 2001, 20, 2261-2268.	1.0	5
135	Characterization of MFI/Al ₂ O ₃ and V-MFI/Al ₂ O ₃ composite membranes by 129Xe NMR. Separation and Purification Technology, 2003, 32, 165-173.	3.9	5
136	Synthesis and characterisation of proton conducting ceramic membranes. Desalination, 2006, 200, 92-94.	4.0	5
137	Robust synthesis of yttria stabilized tetragonal zirconia powders (3Y-TZPs) using a semi-continuous process in supercritical CO ₂ . Chemical Engineering Journal, 2013, 228, 622-630.	6.6	5
138	Ultra-microporous silica membranes for He purification. Desalination, 2006, 200, 89-91.	4.0	4
139	A detailed insight into the preparation of nanocrystalline TiO ₂ powders in supercritical carbon dioxide. Journal of Materials Science, 2017, 52, 12635-12652.	1.7	4
140	Lanthanum Oxychloride Catalytic Membranes. Key Engineering Materials, 1992, 61-62, 65-70.	0.4	3
141	Elaboration and characterization of lead perovskites from colloidal solution. Journal of Non-Crystalline Solids, 1992, 147-148, 74-79.	1.5	3
142	Computer Simulation of Inorganic Membrane Morphology. Journal of Colloid and Interface Science, 1993, 161, 377-383.	5.0	3
143	Characterization of thin Co/ZrO ₂ catalytic films by XPS, SEM and SAM. Surface and Interface Analysis, 2002, 34, 84-87.	0.8	3
144	Sol-Gel Synthesis Assisted by Supercritical CO ₂ - A Flexible Process for Ceramic Powder and Membrane Preparation. Advances in Science and Technology, 0, , .	0.2	3

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145	The sol-gel route: A versatile process for up-scaling the fabrication of gas-tight thin electrolyte layers. Journal of Power Sources, 2011, 196, 2987-2993.	4.0	3
146	Sintering and conductivity of nano-sized yttria-doped ZrO ₂ synthesized by a supercritical CO ₂ -assisted sol-gel process. Journal of Supercritical Fluids, 2016, 115, 26-32.	1.6	3
147	Acoustic emission monitoring during gas permeation: a new operando diagnostic tool for porous membranes. Journal of Membrane Science, 2018, 555, 88-96.	4.1	3
148	Novel concept for the preparation of gas selective nanocomposite membranes. European Physical Journal: Special Topics, 2015, 224, 1921-1933.	1.2	2
149	Salt storage and induced crystallisation in porous asymmetric inorganic membranes. Journal of Membrane Science, 2022, 641, 119872.	4.1	2
150	Zeolite Membrane. , 2016, , 2056-2057.		2
151	Increasing Permeability of a Composite Inorganic Membrane. Key Engineering Materials, 1992, 61-62, 131-136.	0.4	1
152	Influence of the Preparation Variables on the Separative and Catalytic Properties of Ruthenium-Silica Membranes. Studies in Surface Science and Catalysis, 1998, , 205-212.	1.5	1
153	How can Microwave Heating Contribute to the Development of Zeolite Membranes. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	1
154	ZSM-5 Zeolite Membrane. , 2016, , 2069-2070.		1
155	Faujasite. , 2015, , 1-2.		1
156	Measurement of the diffusivity of benzene in a microporous membrane by quasi-elastic neutron scattering and NMR pulsed-field gradient technique. Studies in Surface Science and Catalysis, 1995, 98, 204-205.	1.5	0
157	Potentialities of an Innovative Technique Like ¹²⁹ Xe NMR and of SxS for the Characterization of Microporous Sol-Gel Derived SiO ₂ . Materials Research Society Symposia Proceedings, 1996, 431, 159.	0.1	0
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