

Anne C Julbe

List of Publications by Year in descending order

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171
papers

5,640
citations

81900

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95266

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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.	8.0	346
2	Porous ceramic membranes for catalytic reactors – overview and new ideas. Journal of Membrane Science, 2001, 181, 3-20.	8.2	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.	31.2	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.	3.7	207
5	Inorganic membranes and solid state sciences. Solid State Sciences, 2000, 2, 313-334.	3.2	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.	8.0	135
7	Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. Chemistry of Materials, 2018, 30, 7368-7390.	6.7	133
8	Long term pervaporation desalination of tubular MFI zeolite membranes. Journal of Membrane Science, 2012, 415-416, 816-823.	8.2	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.	4.3	117
10	Novel B-site ordered double perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O _{6+x} for highly efficient oxygen reduction reaction. Energy and Environmental Science, 2011, 4, 872-875.	30.8	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.	5.5	100
12	Highly crystalline MOF-based materials grown on electrospun nanofibers. Nanoscale, 2015, 7, 5794-5802.	5.6	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.	3.1	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.	8.2	92
15	The sol-gel approach to prepare candidate microporous inorganic membranes for membrane reactors. Journal of Membrane Science, 1993, 77, 137-153.	8.2	91
16	Rapid synthesis of silicalite-1 seeds by microwave assisted hydrothermal treatment. Microporous and Mesoporous Materials, 2005, 80, 73-83.	4.4	86
17	Rapid synthesis of oriented silicalite-1 membranes by microwave-assisted hydrothermal treatment. Microporous and Mesoporous Materials, 2006, 92, 259-269.	4.4	84
18	Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. Chemistry of Materials, 2011, 23, 4193-4198.	6.7	80

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19	Design of nanosized structures in sol-gel derived porous solids. Applications in catalyst and inorganic membrane preparation. Journal of Materials Chemistry, 1999, 9, 55-65.	6.7	75
20	Characteristics and performance in the oxidative dehydrogenation of propane of MFI and V-MFI zeolite membranes. Catalysis Today, 2000, 56, 199-209.	4.4	74
21	Catalytic effect of metal nitrate salts during pyrolysis of impregnated biomass. Journal of Analytical and Applied Pyrolysis, 2015, 113, 143-152.	5.5	74
22	Silica membranes by the sol-gel process. Journal of Membrane Science, 1989, 44, 289-303.	8.2	72
23	Potentiality of organic solvents filtration with ceramic membranes. A comparison with polymer membranes. Desalination, 2002, 147, 275-280.	8.2	71
24	Non-Stoichiometric Redox Active Perovskite Materials for Solar Thermochemical Fuel Production: A Review. Catalysts, 2018, 8, 611.	3.5	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. Energy, 2020, 201, 117649.	8.8	59
26	Synthesis of sodalite/Al ₂ O ₃ composite membranes by microwave heating. Separation and Purification Technology, 2003, 32, 139-149.	7.9	58
27	Limitations and potentials of oxygen transport dense and porous ceramic membranes for oxidation reactions. Catalysis Today, 2005, 104, 102-113.	4.4	57
28	Synthesis of PECVD a-SiC _x N _y :H membranes as molecular sieves for small gas separation. Journal of Membrane Science, 2009, 329, 130-137.	8.2	56
29	Microwave-assisted hydrothermal rapid synthesis of capillary MFI-type zeolite/ceramic membranes for pervaporation application. Journal of Membrane Science, 2010, 355, 28-35.	8.2	56
30	PVDF-MFI mixed matrix membranes as VOCs adsorbers. Microporous and Mesoporous Materials, 2015, 207, 126-133.	4.4	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. Applied Surface Science, 2010, 257, 1196-1203.	6.1	50
32	Binary iron cobalt oxide silica membrane for gas separation. Journal of Membrane Science, 2015, 474, 32-38.	8.2	50
33	Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite Ba _{0.2} Bi _{0.1} Sc _{0.2} Co _{1.7} O ₆ Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. Chemistry of Materials, 2011, 23, 1618-1624.	6.7	49
34	Design of a novel fuel cell-Fenton system: a smart approach to zero energy depollution. Journal of Materials Chemistry A, 2016, 4, 17686-17693.	10.3	47
35	A microporous zirconia membrane prepared by the sol-gel process from zirconyl oxalate. Journal of Membrane Science, 1994, 86, 95-102.	8.2	45
36	Effect of non-ionic surface active agents on TEOS-derived sols, gels and materials. Journal of Sol-Gel Science and Technology, 1995, 4, 89-97.	2.4	43

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37	Sol-gel derived silica membranes with tailored microporous structures. <i>Catalysis Today</i> , 1995, 25, 219-224.	4.4	42
38	Nitrogen-Doped Graphitized Carbon Electrodes for Biorefractory Pollutant Removal. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15188-15197.	3.1	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.	4.4	40
40	Copper oxide - perovskite mixed matrix membranes delivering very high oxygen fluxes. <i>Journal of Membrane Science</i> , 2017, 526, 323-333.	8.2	40
41	Study of lanthanum-based colloidal sols formation. <i>Journal of Materials Science</i> , 1994, 29, 4244-4251.	3.7	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.	5.7	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.	5.6	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.	3.8	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.	7.8	37
46	Atomic layer deposition (ALD) on inorganic or polymeric membranes. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	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.	4.4	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.	2.6	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.	1.4	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.	2.9	33
54	New approaches in the design of ceramic and hybrid membranes. <i>Journal of Membrane Science</i> , 2008, 316, 176-185.	8.2	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. Separation and Purification Technology, 2001, 25, 137-149.	7.9	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. Nanomaterials, 2019, 9, 641.	4.1	31
58	Hydrolysis of mixed titanium and zirconium alkoxides by an esterification reaction. Journal of Solid State Chemistry, 1992, 98, 393-403.	2.9	30
59	Catalytic deoxygenation of model compounds from flash pyrolysis of lignocellulosic biomass over activated charcoal-based catalysts. Applied Catalysis B: Environmental, 2017, 219, 517-525.	20.2	30
60	Effect of boric acid addition in colloidal sol-gel derived SiC precursors. Materials Research Bulletin, 1990, 25, 601-609.	5.2	29
61	Preparation of composite zeolite membrane separator/contactor for ozone water treatment. Microporous and Mesoporous Materials, 2008, 115, 137-146.	4.4	29
62	Hydrogen selective palladium-alumina composite membranes prepared by Atomic Layer Deposition. Journal of Membrane Science, 2020, 596, 117701.	8.2	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. Journal of CO ₂ Utilization, 2020, 41, 101257.	6.8	29
64	Functionalization of 3D printed ABS filters with MOF for toxic gas removal. Journal of Industrial and Engineering Chemistry, 2020, 89, 194-203.	5.8	29
65	Nafion®/H-ZSM-5 composite membranes with superior performance for direct methanol fuel cells. Journal of Membrane Science, 2009, 338, 75-83.	8.2	27
66	Vacuum seeding and secondary growth route to sodalite membrane. Thin Solid Films, 2006, 495, 92-96.	1.8	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. Microporous and Mesoporous Materials, 2008, 110, 111-118.	4.4	26
68	Evaluation of sol-gel methods for the synthesis of doped-ceria environmental catalysis systems. Applied Catalysis B: Environmental, 2001, 34, 149-159.	20.2	25
69	Estimation of pore size distribution in MCM-41-type silica using a simple desorption technique. Adsorption, 2011, 17, 911-918.	3.0	25
70	Hierarchical Porous Polybenzimidazole Microsieves: An Efficient Architecture for Anhydrous Proton Transport via Polyionic Liquids. ACS Applied Materials & Interfaces, 2017, 9, 14844-14857.	8.0	24
71	Novel inorganic membrane for the percrystallization of mineral, food and pharmaceutical compounds. Journal of Membrane Science, 2018, 550, 407-415.	8.2	24
72	Hierarchical porous silica membranes with dispersed Pt nanoparticles. Microporous and Mesoporous Materials, 2009, 126, 222-227.	4.4	23

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73	Controlled growth of thin and uniform TS-1 membranes by MW-assisted heating. Microporous and Mesoporous Materials, 2010, 128, 136-143.	4.4	23
74	Lanthanum manganite perovskite ceramic powders for CO ₂ splitting: Influence of Pechini synthesis parameters on sinterability and reactivity. Ceramics International, 2019, 45, 15636-15648.	4.8	23
75	Synthesis and oxygen transport characteristics of dense and porous cerium/gadolinium oxide materials. Catalysis Today, 2005, 104, 120-125.	4.4	22
76	Microporous Silica Membrane: Basic Principles and Recent Advances. Membrane Science and Technology, 2008, 13, 33-79.	0.5	22
77	Coupling microwave-assisted and classical heating methods for scaling-up MFI zeolite membrane synthesis. Journal of Membrane Science, 2012, 401-402, 144-151.	8.2	22
78	Synthesis and structural study of a tetranuclear magnesium alkoxide: [Mg ₄ (μ_4 3, μ_2 -OR) ₂ (μ_4 2, μ_2 -OR) ₄ (OR) ₂] with OR-OCH(CH ₃)CH ₂ OCH ₃ . Polyhedron, 1997, 16, 587-592.	2.2	20
79	Catalytic membrane reactor for oxidative coupling of methane. Part 1: preparation and characterisation of LaOCl membranes. Catalysis Today, 1995, 25, 225-230.	4.4	19
80	Catalytic membrane reactor for oxidative coupling of methane. Part II "Catalytic properties of LaOCl membranes. Catalysis Today, 1995, 25, 377-383.	4.4	19
81	The chemical valve membrane: a new concept for an auto-regulation of O ₂ distribution in membrane reactors. Catalysis Today, 2001, 67, 139-149.	4.4	19
82	Synthesis and encapsulation of yttria stabilized zirconia particles in supercritical carbon dioxide. Journal of the European Ceramic Society, 2006, 26, 1195-1203.	5.7	18
83	Gas permeation redox effect of binary iron oxide/cobalt oxide silica membranes. Separation and Purification Technology, 2016, 171, 248-255.	7.9	18
84	Chapter 4 Methods for the characterisation of porous structure in membrane materials. Membrane Science and Technology, 1996, , 67-118.	0.5	17
85	Catalytic membrane materials with a hierarchical porosity and their performance in total oxidation of propene. Catalysis Today, 2010, 156, 216-222.	4.4	17
86	Improving the kinetics of the CO ₂ gasification of char through the catalyst/biomass integration concept. Fuel, 2015, 154, 217-221.	6.4	17
87	Fine control of NaCl crystal size and particle size in percrystallisation by tuning the morphology of carbonised sucrose membranes. Journal of Membrane Science, 2018, 567, 157-165.	8.2	17
88	Mobility of cyclohexane in a microporous silica sample: a quasielastic neutron scattering and NMR pulsed-field gradient technique study. Journal of Membrane Science, 1995, 108, 71-78.	8.2	16
89	Zeolite membranes " A short overview. Studies in Surface Science and Catalysis, 2005, 157, 135-160.	1.5	16
90	Title is missing!. Journal of Porous Materials, 1999, 6, 41-54.	2.6	15

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91	The application of transient time-lag method for the diffusion coefficient estimation on zeolite composite membranes. Separation and Purification Technology, 2001, 25, 467-474.	7.9	15
92	Synthesis of capillary titanosilicalite TS-1 ceramic membranes by MW-assisted hydrothermal heating for pervaporation application. Separation and Purification Technology, 2010, 75, 249-256.	7.9	15
93	Initial Steps toward the Development of Grafted Ionic Liquid Membranes for the Selective Transport of CO ₂ . Industrial & Engineering Chemistry Research, 2018, 57, 16027-16040.	3.7	15
94	Novel membrane percrystallisation process for nickel sulphate production. Hydrometallurgy, 2019, 185, 210-217.	4.3	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. Journal of Membrane Science, 2021, 634, 119387.	8.2	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. Chemical Engineering Journal, 2021, 422, 130026.	12.7	15
97	Soft-Chemistry Synthesis, Characterization, and Stabilization of CGO/Al ₂ O ₃ /Pt Nanostructured Composite Powders. Journal of the American Ceramic Society, 2007, 90, 942-949.	3.8	14
98	About the role of adsorption in inorganic and composite membranes. Current Opinion in Chemical Engineering, 2019, 24, 88-97.	7.8	14
99	Synthesis and thermochemical redox cycling of porous ceria microspheres for renewable fuels production from solar-aided water-splitting and CO ₂ utilization. Applied Physics Letters, 2021, 119, .	3.3	14
100	Investigation of reactive perovskite materials for solar fuel production via two-step redox cycles: Thermochemical activity, thermodynamic properties and reduction kinetics. Materials Chemistry and Physics, 2022, 276, 125358.	4.0	14
101	Sol-gel processing of inorganic membranes. Journal of Sol-Gel Science and Technology, 1994, 2, 483-487.	2.4	13
102	Measurement of the diffusivity of benzene in microporous silica by quasi-elastic neutron scattering and NMR pulsed-field gradient technique. Adsorption, 1995, 1, 197-201.	3.0	13
103	Design of Phosphonated Imidazolium-Based Ionic Liquids Grafted on Î ³ -Alumina: Potential Model for Hybrid Membranes. International Journal of Molecular Sciences, 2016, 17, 1212.	4.1	13
104	Nanostructures in solâ€”gel derived materials: application to the elaboration of nanofiltration membranes. Journal of Alloys and Compounds, 1992, 188, 8-13.	5.5	12
105	The First Redox Switchable Ceramic Membrane. Journal of the American Chemical Society, 2000, 122, 12592-12593.	13.7	12
106	An insight into the structureâ€”property relationships of PECVD SiC _x Ny(O):H materials. Microporous and Mesoporous Materials, 2014, 191, 97-102.	4.4	12
107	Controlled grafting of dialkylphosphonate-based ionic liquids on Î ³ -alumina: design of hybrid materials with high potential for CO ₂ separation applications. RSC Advances, 2019, 9, 19882-19894.	3.6	12
108	Synthesis of ceria based ion conducting mesoporous membranes by soft-chemistry. Separation and Purification Technology, 2003, 32, 327-333.	7.9	11

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109	Potentialities of the sol-gel route to develop cathode and electrolyte thick layers. Surface and Coatings Technology, 2008, 203, 901-904.	4.8	11
110	Yttria stabilized zirconia synthesis in supercritical CO ₂ : Understanding of particle formation mechanisms in CO ₂ /co-solvent systems. Journal of the European Ceramic Society, 2010, 30, 1691-1698.	5.7	11
111	Evaluation of a new supercritical CO ₂ -assisted deposition method for preparing gas selective polymer/zeolite composite membranes. Journal of Membrane Science, 2013, 429, 428-435.	8.2	10
112	Environmental mineralization of caffeine micro-pollutant by Fe-MFI zeolites. Environmental Science and Pollution Research, 2018, 25, 3628-3635.	5.3	10
113	Microfiltration through an infiltrated and a noninfiltrated inorganic composite membrane. Journal of Membrane Science, 1994, 97, 127-138.	8.2	9
114	Gas-solid oxidations with RuO ₂ -TiO ₂ and RuO ₂ -SiO ₂ membranes. Catalysis Today, 1995, 25, 385-389.	4.4	9
115	Investigation of sol-gel methods for the synthesis of VPO membrane materials adapted to the partial oxidation of n-butane. Catalysis Today, 2000, 56, 211-220.	4.4	9
116	Synthesis and characterisation of a vanadium-based "chemical valve" membrane. Separation and Purification Technology, 2001, 25, 11-24.	7.9	9
117	Optimization of the molecular sieving properties of amorphous SiCN:H hydrogen selective membranes prepared by PECVD. European Physical Journal: Special Topics, 2015, 224, 1935-1943.	2.6	9
118	Microwave PECVD Silicon Carbonitride Thin Films: A FTIR and Ellipsoporosimetry Study. Plasma Processes and Polymers, 2016, 13, 258-265.	3.0	9
119	Porous Pt/SiO ₂ catalytic membranes prepared using mesitylene solvated Pt atoms as a source of Pt particles. Catalysis Today, 1995, 25, 249-253.	4.4	8
120	Role of membranes and membrane reactors in the hydrogen supply of fuel cells. Annales De Chimie: Science Des Materiaux, 2001, 26, 79-92.	0.4	8
121	Novel microwave assisted approach to large scale nickel nanoparticle fabrication. Chemical Engineering Journal, 2014, 240, 155-160.	12.7	8
122	Temperature dependent transition point of purity versus flux for gas separation in Fe/Co-silica membranes. Separation and Purification Technology, 2015, 151, 284-291.	7.9	8
123	Gas Adsorption in Zeolite and Thin Zeolite Layers: Molecular Simulation, Experiment, and Adsorption Potential Theory. Langmuir, 2022, 38, 5428-5438.	3.5	8
124	Computer Simulation of Inorganic Membrane Morphology. Journal of Colloid and Interface Science, 1993, 161, 384-388.	9.4	7
125	Nanophase ceramic ion transport membranes for oxygen separation and gas stream enrichment. Membrane Science and Technology, 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. Langmuir, 2014, 30, 10336-10343.	3.5	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.	7.9	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.	3.5	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.	3.2	6
132	Vibrational frequencies of hydrogenated silicon carbonitride: A DFT study. Surface and Coatings Technology, 2017, 325, 437-444.	4.8	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.	3.0	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.	2.2	5
135	Characterization of MFI/Al ₂ O ₃ and V-MFI/Al ₂ O ₃ composite membranes by ¹²⁹ Xe NMR. Separation and Purification Technology, 2003, 32, 165-173.	7.9	5
136	Synthesis and characterisation of proton conducting ceramic membranes. Desalination, 2006, 200, 92-94.	8.2	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.	12.7	5
138	Ultra-microporous silica membranes for He purification. Desalination, 2006, 200, 89-91.	8.2	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.	3.7	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.	3.1	3
142	Computer Simulation of Inorganic Membrane Morphology. Journal of Colloid and Interface Science, 1993, 161, 377-383.	9.4	3
143	Characterization of thin Co/ZrO ₂ catalytic films by XPS, SEM and SAM. Surface and Interface Analysis, 2002, 34, 84-87.	1.8	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.	7.8	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.	3.2	3
147	Acoustic emission monitoring during gas permeation: a new operando diagnostic tool for porous membranes. Journal of Membrane Science, 2018, 555, 88-96.	8.2	3
148	Novel concept for the preparation of gas selective nanocomposite membranes. European Physical Journal: Special Topics, 2015, 224, 1921-1933.	2.6	2
149	Salt storage and induced crystallisation in porous asymmetric inorganic membranes. Journal of Membrane Science, 2022, 641, 119872.	8.2	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
158	Preferential Oxygen Transport in Nanophase Mesoporous Ceramic Ion Conducting Membranes. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	0
159	Synthesis by soft-chemistry and characterization of porous Ce _{0.9} Gd _{0.1} O _{1.95} ion-conducting membranes. Desalination, 2002, 146, 17-22.	8.2	0
160	Zeolite T Type. , 2016, , 2058-2059.		0
161	Investigation of the surface properties and microstructure of TiO ₂ sorbents prepared in supercritical CO ₂ for the treatment of Sr ²⁺ contaminated effluents. SN Applied Sciences, 2020, 2, 1.	2.9	0
162	Nanophased Materials in Supercritical CO ₂ : Ceramic Nanopowder Synthesis, Encapsulation and Deposition. Ceramic Transactions, 0, , 259-265.	0.1	0

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163	Zeolite Membrane. , 2014, , 1-2.		0
164	Seeding for Zeolite Membranes. , 2014, , 1-2.		0
165	ZSM-5 Zeolite Membrane. , 2014, , 1-2.		0
166	Zeolite-Embedded Membrane. , 2014, , 1-2.		0
167	Preparation and Application of Inorganic Membranes. , 1994, , 431-442.		0
168	Zeolite-Embedded Membrane. , 2016, , 2061-2062.		0
169	Seeding for Zeolite Membranes. , 2016, , 1760-1761.		0
170	Solâ€Gel Processed Membranes. , 2016, , 1-47.		0
171	Solâ€Gel Processed Membranes. , 2018, , 1971-2017.		0