

Anne C Julbe

List of Publications by Year in descending order

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Version: 2024-02-01

171
papers

5,640
citations

81743

39
h-index

95083

68
g-index

173
all docs

173
docs citations

173
times ranked

6135
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Salt storage and induced crystallisation in porous asymmetric inorganic membranes. <i>Journal of Membrane Science</i> , 2022, 641, 119872. | 4.1 | 2 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Hydrogen selective palladium-alumina composite membranes prepared by Atomic Layer Deposition. <i>Journal of Membrane Science</i> , 2020, 596, 117701. | 4.1 | 29 |
| 8 | 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 |
| 9 | 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 |
| 10 | Investigation of the surface properties and microstructure of TiO ₂ sorbents prepared in supercritical CO ₂ for the treatment of Sr ²⁺ contaminated effluents. <i>SN Applied Sciences</i> , 2020, 2, 1. | 1.5 | 0 |
| 11 | 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 |
| 12 | 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 |
| 13 | Atomic layer deposition (ALD) on inorganic or polymeric membranes. <i>Journal of Applied Physics</i> , 2019, 126, . | 1.1 | 36 |
| 14 | Controlled grafting of dialkylphosphonate-based ionic liquids on γ -alumina: design of hybrid materials with high potential for CO ₂ separation applications. <i>RSC Advances</i> , 2019, 9, 19882-19894. | 1.7 | 12 |
| 15 | 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 |
| 16 | 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 |
| 17 | About the role of adsorption in inorganic and composite membranes. <i>Current Opinion in Chemical Engineering</i> , 2019, 24, 88-97. | 3.8 | 14 |
| 18 | Novel membrane percrystallisation process for nickel sulphate production. <i>Hydrometallurgy</i> , 2019, 185, 210-217. | 1.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Acoustic emission monitoring during gas permeation: a new operando diagnostic tool for porous membranes. <i>Journal of Membrane Science</i> , 2018, 555, 88-96. | 4.1 | 3 |
| 22 | 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 |
| 23 | 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 |
| 24 | Environmental mineralization of caffeine micro-pollutant by Fe-MFI zeolites. <i>Environmental Science and Pollution Research</i> , 2018, 25, 3628-3635. | 2.7 | 10 |
| 25 | Non-Stoichiometric Redox Active Perovskite Materials for Solar Thermochemical Fuel Production: A Review. <i>Catalysts</i> , 2018, 8, 611. | 1.6 | 67 |
| 26 | Exploring the Gas-Permeation Properties of Proton-Conducting Membranes Based on Protic Imidazolium Ionic Liquids: Application in Natural Gas Processing. <i>Membranes</i> , 2018, 8, 75. | 1.4 | 6 |
| 27 | Atomic Layer Deposition for Membranes: Basics, Challenges, and Opportunities. <i>Chemistry of Materials</i> , 2018, 30, 7368-7390. | 3.2 | 133 |
| 28 | 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 |
| 29 | High-Performance Nanowire Hydrogen Sensors by Exploiting the Synergistic Effect of Pd Nanoparticles and Metal-Organic Framework Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34765-34773. | 4.0 | 135 |
| 30 | 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 |
| 31 | Sol-Gel Processed Membranes. , 2018, , 1971-2017. | | 0 |
| 32 | 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 |
| 33 | Vibrational frequencies of hydrogenated silicon carbonitride: A DFT study. <i>Surface and Coatings Technology</i> , 2017, 325, 437-444. | 2.2 | 6 |
| 34 | Copper oxide - perovskite mixed matrix membranes delivering very high oxygen fluxes. <i>Journal of Membrane Science</i> , 2017, 526, 323-333. | 4.1 | 40 |
| 35 | 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 |
| 36 | A detailed insight into the preparation of nanocrystalline TiO ₂ powders in supercritical carbon dioxide. <i>Journal of Materials Science</i> , 2017, 52, 12635-12652. | 1.7 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Nitrogen-Doped Graphitized Carbon Electrodes for Biorefractory Pollutant Removal. Journal of Physical Chemistry C, 2017, 121, 15188-15197. | 1.5 | 41 |
| 38 | Design of Phosphonated Imidazolium-Based Ionic Liquids Grafted on $\hat{1}^3$ -Alumina: Potential Model for Hybrid Membranes. International Journal of Molecular Sciences, 2016, 17, 1212. | 1.8 | 13 |
| 39 | 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 |
| 40 | ZSM-5 Zeolite Membrane. , 2016, , 2069-2070. | | 1 |
| 41 | Gas permeation redox effect of binary iron oxide/cobalt oxide silica membranes. Separation and Purification Technology, 2016, 171, 248-255. | 3.9 | 18 |
| 42 | Zeolite A Type. , 2016, , 2055-2056. | | 7 |
| 43 | Design of a novel fuel cell-Fenton system: a smart approach to zero energy depollution. Journal of Materials Chemistry A, 2016, 4, 17686-17693. | 5.2 | 47 |
| 44 | Zeolite T Type. , 2016, , 2058-2059. | | 0 |
| 45 | Microwave PECVD Silicon Carbonitride Thin Films: A FTIR and Ellipsoporosimetry Study. Plasma Processes and Polymers, 2016, 13, 258-265. | 1.6 | 9 |
| 46 | MOF-Based Membrane Encapsulated ZnO Nanowires for Enhanced Gas Sensor Selectivity. ACS Applied Materials & Interfaces, 2016, 8, 8323-8328. | 4.0 | 346 |
| 47 | Zeolite-Embedded Membrane. , 2016, , 2061-2062. | | 0 |
| 48 | Zeolite Membrane. , 2016, , 2056-2057. | | 2 |
| 49 | Seeding for Zeolite Membranes. , 2016, , 1760-1761. | | 0 |
| 50 | Solâ€“Gel Processed Membranes. , 2016, , 1-47. | | 0 |
| 51 | Biomass Gasification to Produce Syngas. , 2015, , 213-250. | | 31 |
| 52 | PVDF-MFI mixed matrix membranes as VOCs adsorbers. Microporous and Mesoporous Materials, 2015, 207, 126-133. | 2.2 | 53 |
| 53 | Highly crystalline MOF-based materials grown on electrospun nanofibers. Nanoscale, 2015, 7, 5794-5802. | 2.8 | 95 |
| 54 | Novel concept for the preparation of gas selective nanocomposite membranes. European Physical Journal: Special Topics, 2015, 224, 1921-1933. | 1.2 | 2 |

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|----|---|-----|-----------|
| 55 | Temperature dependent transition point of purity versus flux for gas separation in Fe/Co-silica membranes. Separation and Purification Technology, 2015, 151, 284-291. | 3.9 | 8 |
| 56 | Improving the kinetics of the CO ₂ gasification of char through the catalyst/biomass integration concept. Fuel, 2015, 154, 217-221. | 3.4 | 17 |
| 57 | Optimization of the molecular sieving properties of amorphous Si _x C _y N _y :H hydrogen selective membranes prepared by PECVD. European Physical Journal: Special Topics, 2015, 224, 1935-1943. | 1.2 | 9 |
| 58 | Catalytic effect of metal nitrate salts during pyrolysis of impregnated biomass. Journal of Analytical and Applied Pyrolysis, 2015, 113, 143-152. | 2.6 | 74 |
| 59 | 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 |
| 60 | Binary iron cobalt oxide silica membrane for gas separation. Journal of Membrane Science, 2015, 474, 32-38. | 4.1 | 50 |
| 61 | Faujasite. , 2015, , 1-2. | | 1 |
| 62 | An insight into the structure–property relationships of PECVD Si _x C _x N _y (O):H materials. Microporous and Mesoporous Materials, 2014, 191, 97-102. | 2.2 | 12 |
| 63 | Effect of Gas Adsorption on Acoustic Wave Propagation in MFI Zeolite Membrane Materials: Experiment and Molecular Simulation. Langmuir, 2014, 30, 10336-10343. | 1.6 | 7 |
| 64 | Novel microwave assisted approach to large scale nickel nanoparticle fabrication. Chemical Engineering Journal, 2014, 240, 155-160. | 6.6 | 8 |
| 65 | 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 |
| 66 | Zeolite Membrane. , 2014, , 1-2. | | 0 |
| 67 | Seeding for Zeolite Membranes. , 2014, , 1-2. | | 0 |
| 68 | ZSM-5 Zeolite Membrane. , 2014, , 1-2. | | 0 |
| 69 | Zeolite-Embedded Membrane. , 2014, , 1-2. | | 0 |
| 70 | 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 |
| 71 | 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. | 4.1 | 10 |
| 72 | 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 |

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|----|--|------|-----------|
| 73 | 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 |
| 74 | Long term pervaporation desalination of tubular MFI zeolite membranes. Journal of Membrane Science, 2012, 415-416, 816-823. | 4.1 | 119 |
| 75 | 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 |
| 76 | Coupling microwave-assisted and classical heating methods for scaling-up MFI zeolite membrane synthesis. Journal of Membrane Science, 2012, 401-402, 144-151. | 4.1 | 22 |
| 77 | Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. Chemistry of Materials, 2011, 23, 4193-4198. | 3.2 | 80 |
| 78 | 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. Chemistry of Materials, 2011, 23, 1618-1624. | 3.2 | 49 |
| 79 | Novel B-site ordered double perovskite Ba ₂ Bi _{0.1} Sc _{0.2} Co _{1.7} O ₆ for highly efficient oxygen reduction reaction. Energy and Environmental Science, 2011, 4, 872-875. | 15.6 | 112 |
| 80 | Estimation of pore size distribution in MCM-41-type silica using a simple desorption technique. Adsorption, 2011, 17, 911-918. | 1.4 | 25 |
| 81 | 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 |
| 82 | Iron Oxide Silica Derived from Sol-Gel Synthesis. Materials, 2011, 4, 448-456. | 1.3 | 33 |
| 83 | Microwave-assisted hydrothermal rapid synthesis of capillary MFI-type zeolite ceramic membranes for pervaporation application. Journal of Membrane Science, 2010, 355, 28-35. | 4.1 | 56 |
| 84 | Synthesis and characterization of microporous silica-alumina membranes. Journal of Porous Materials, 2010, 17, 259-263. | 1.3 | 34 |
| 85 | 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 |
| 86 | 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 |
| 87 | 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. | 3.1 | 50 |
| 88 | Synthesis of capillary titanosilicalite TS-1 ceramic membranes by MW-assisted hydrothermal heating for pervaporation application. Separation and Purification Technology, 2010, 75, 249-256. | 3.9 | 15 |
| 89 | 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. | 2.8 | 11 |
| 90 | Controlled growth of thin and uniform TS-1 membranes by MW-assisted heating. Microporous and Mesoporous Materials, 2010, 128, 136-143. | 2.2 | 23 |

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|-----|---|-----|-----------|
| 91 | 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 |
| 92 | Synthesis of PECVD a-SiCXY:H membranes as molecular sieves for small gas separation. <i>Journal of Membrane Science</i> , 2009, 329, 130-137. | 4.1 | 56 |
| 93 | 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 |
| 94 | Hierarchical porous silica membranes with dispersed Pt nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2009, 126, 222-227. | 2.2 | 23 |
| 95 | Preparation of composite zeolite membrane separator/contactor for ozone water treatment. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 137-146. | 2.2 | 29 |
| 96 | 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 |
| 97 | New approaches in the design of ceramic and hybrid membranes. <i>Journal of Membrane Science</i> , 2008, 316, 176-185. | 4.1 | 32 |
| 98 | 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 |
| 99 | Microporous Silica Membrane: Basic Principles and Recent Advances. <i>Membrane Science and Technology</i> , 2008, 13, 33-79. | 0.5 | 22 |
| 100 | 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 |
| 101 | Zeolite Membranes – Synthesis, Characterization and Application. <i>Studies in Surface Science and Catalysis</i> , 2007, , 181-219. | 1.5 | 33 |
| 102 | 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 |
| 103 | Pyrolysis of metal impregnated biomass: An innovative catalytic way to produce gas fuel. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 78, 291-300. | 2.6 | 100 |
| 104 | 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 |
| 105 | Ultra-microporous silica membranes for He purification. <i>Desalination</i> , 2006, 200, 89-91. | 4.0 | 4 |
| 106 | Synthesis and characterisation of proton conducting ceramic membranes. <i>Desalination</i> , 2006, 200, 92-94. | 4.0 | 5 |
| 107 | Rapid synthesis of oriented silicalite-1 membranes by microwave-assisted hydrothermal treatment. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 259-269. | 2.2 | 84 |
| 108 | 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 |

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|-----|--|-----|-----------|
| 109 | Vacuum seeding and secondary growth route to sodalite membrane. <i>Thin Solid Films</i> , 2006, 495, 92-96. | 0.8 | 26 |
| 110 | Rapid synthesis of silicalite-1 seeds by microwave assisted hydrothermal treatment. <i>Microporous and Mesoporous Materials</i> , 2005, 80, 73-83. | 2.2 | 86 |
| 111 | Synthesis and oxygen transport characteristics of dense and porous cerium/gadolinium oxide materials. <i>Catalysis Today</i> , 2005, 104, 120-125. | 2.2 | 22 |
| 112 | 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 |
| 113 | Synthesis and properties of MFI zeolite membranes prepared by microwave assisted secondary growth, from microwave derived seeds. <i>Studies in Surface Science and Catalysis</i> , 2005, 158, 129-136. | 1.5 | 6 |
| 114 | Zeolite membranes – A short overview. <i>Studies in Surface Science and Catalysis</i> , 2005, 157, 135-160. | 1.5 | 16 |
| 115 | Synthesis of sodalite/ γ - Al_2O_3 composite membranes by microwave heating. <i>Separation and Purification Technology</i> , 2003, 32, 139-149. | 3.9 | 58 |
| 116 | Characterization of MFI/ γ - Al_2O_3 and V-MFI/ γ - Al_2O_3 composite membranes by ^{129}Xe NMR. <i>Separation and Purification Technology</i> , 2003, 32, 165-173. | 3.9 | 5 |
| 117 | Synthesis of ceria based ion conducting mesoporous membranes by soft-chemistry. <i>Separation and Purification Technology</i> , 2003, 32, 327-333. | 3.9 | 11 |
| 118 | How can Microwave Heating Contribute to the Development of Zeolite Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2002, 752, 1. | 0.1 | 1 |
| 119 | Preferential Oxygen Transport in Nanophase Mesoporous Ceramic Ion Conducting Membranes. <i>Materials Research Society Symposia Proceedings</i> , 2002, 752, 1. | 0.1 | 0 |
| 120 | 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 |
| 121 | Characterization of thin Co/ ZrO_2 catalytic films by XPS, SEM and SAM. <i>Surface and Interface Analysis</i> , 2002, 34, 84-87. | 0.8 | 3 |
| 122 | Synthesis by soft-chemistry and characterization of porous $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{1.95}$ ion-conducting membranes. <i>Desalination</i> , 2002, 146, 17-22. | 4.0 | 0 |
| 123 | Potentiality of organic solvents filtration with ceramic membranes. A comparison with polymer membranes. <i>Desalination</i> , 2002, 147, 275-280. | 4.0 | 71 |
| 124 | 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 |
| 125 | Oxovanadium(V)-1-methoxy-2-propanoxide: synthesis and spectroscopic studies – a molecular precursor for a vanadium–magnesium oxide catalyst. <i>Polyhedron</i> , 2001, 20, 2261-2268. | 1.0 | 5 |
| 126 | Porous ceramic membranes for catalytic reactors – overview and new ideas. <i>Journal of Membrane Science</i> , 2001, 181, 3-20. | 4.1 | 314 |

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|-----|--|------|-----------|
| 127 | 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 |
| 128 | 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 |
| 129 | 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 |
| 130 | Synthesis and characterisation of a vanadium-based "chemical valve"™ membrane. <i>Separation and Purification Technology</i> , 2001, 25, 11-24. | 3.9 | 9 |
| 131 | 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 |
| 132 | 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 |
| 133 | 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 |
| 134 | Inorganic membranes and solid state sciences. <i>Solid State Sciences</i> , 2000, 2, 313-334. | 1.5 | 141 |
| 135 | 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 |
| 136 | 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 |
| 137 | The First Redox Switchable Ceramic Membrane. <i>Journal of the American Chemical Society</i> , 2000, 122, 12592-12593. | 6.6 | 12 |
| 138 | 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 |
| 139 | Title is missing!. <i>Journal of Porous Materials</i> , 1999, 6, 41-54. | 1.3 | 15 |
| 140 | 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 |
| 141 | Influence of the Preparation Variables on the Separative and Catalytic Properties of Ruthenium-Silica Membranes. <i>Studies in Surface Science and Catalysis</i> , 1998, , 205-212. | 1.5 | 1 |
| 142 | Synthesis and structural study of a tetranuclear magnesium alkoxide: [Mg ₄ ($\frac{1}{4}$ 3, $\frac{1}{2}$ -OR) ₂ ($\frac{1}{4}$ 2, $\frac{1}{2}$ -OR) ₄ (OR) ₂] with OR-OCH(CH ₃)CH ₂ OCH ₃ . <i>Polyhedron</i> , 1997, 16, 587-592. | 1.0 | 20 |
| 143 | Chapter 4 Methods for the characterisation of porous structure in membrane materials. <i>Membrane Science and Technology</i> , 1996, , 67-118. | 0.5 | 17 |
| 144 | Potentialities of an Innovative Technique Like ¹²⁹ Xe NMR and of Saxs for the Characterization of Microporous Sol-Gel Derived SiO ₂ . <i>Materials Research Society Symposia Proceedings</i> , 1996, 431, 159. | 0.1 | 0 |

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|-----|---|-----|-----------|
| 145 | Measurement of the diffusivity of benzene in a microporous membrane by quasi-elastic neutron scattering and NMR pulsed-field gradient technique. <i>Studies in Surface Science and Catalysis</i> , 1995, 98, 204-205. | 1.5 | 0 |
| 146 | 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 |
| 147 | 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 |
| 148 | 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 |
| 149 | Catalytic membrane reactor for oxidative coupling of methane. Part 1: preparation and characterisation of LaOC1 membranes. <i>Catalysis Today</i> , 1995, 25, 225-230. | 2.2 | 19 |
| 150 | Sol-gel derived silica membranes with tailored microporous structures. <i>Catalysis Today</i> , 1995, 25, 219-224. | 2.2 | 42 |
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