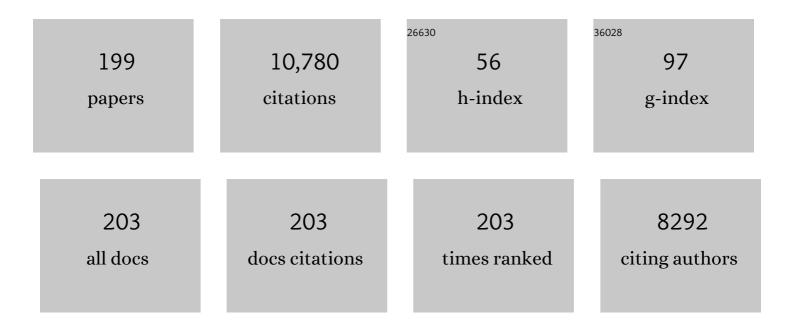
Joao Carlos Diniz da Costa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Salt storage and induced crystallisation in porous asymmetric inorganic membranes. Journal of Membrane Science, 2022, 641, 119872.	8.2	2
2	Novel two-step phase inversion and dry surface coated carbon membranes on alumina freeze-cast substrates for desalination. Desalination, 2021, 500, 114862.	8.2	5
3	Asymmetric and hierarchical porous carbon membranes prepared by a single-step soft-templated method. Chemical Engineering Communications, 2021, 208, 166-170.	2.6	1
4	Structural investigation of cobalt oxide seeded silica xerogels under harsh hydrothermal condition. Journal of Sol-Gel Science and Technology, 2021, 98, 470-477.	2.4	3
5	Improved dark ambient degradation of organic pollutants by cerium strontium cobalt perovskite. Journal of Environmental Sciences, 2020, 90, 110-118.	6.1	11
6	Manufacture of Highly Porous Tubular Alumina Substrates with Anisotropic Pore Structure by Freezeâ€Casting. Advanced Engineering Materials, 2020, 22, 1901432.	3.5	9
7	Catalysis of silica sol–gel reactions using a PdCl2 precursor. Journal of Sol-Gel Science and Technology, 2020, 95, 456-464.	2.4	4
8	Silicon carbide filters and porous membranes: A review of processing, properties, performance and application. Journal of Membrane Science, 2020, 610, 118193.	8.2	87
9	2D/3D Assemblies of Amine-Functionalized Graphene Silica (Templated) Aerogel for Enhanced CO ₂ Sorption. ACS Applied Materials & Interfaces, 2019, 11, 30391-30400.	8.0	19
10	Special Issue on "Membrane Materials, Performance and Processes― Processes, 2019, 7, 261.	2.8	0
11	2D/3D amine functionalised sorbents containing graphene silica aerogel and mesoporous silica with improved CO2 sorption. Separation and Purification Technology, 2019, 222, 381-389.	7.9	26
12	Novel membrane percrystallisation process for nickel sulphate production. Hydrometallurgy, 2019, 185, 210-217.	4.3	15
13	Inter-layer free cobalt-doped silica membranes for pervaporation of ammonia solutions. Journal of Membrane Science, 2018, 553, 111-116.	8.2	12
14	Ceramic metal oxides with Ni2+ active phase for the fast degradation of Orange II dye under dark ambiance. Ceramics International, 2018, 44, 6634-6640.	4.8	22
15	Improved CO ₂ Sorption in Freeze-Dried Amine Functionalized Mesoporous Silica Sorbent. Industrial & Engineering Chemistry Research, 2018, 57, 5653-5660.	3.7	17
16	Novel inorganic membrane for the percrystallization of mineral, food and pharmaceutical compounds. Journal of Membrane Science, 2018, 550, 407-415.	8.2	24
17	Hybrid vinyl silane and P123 template solâ~gel derived carbon silica membrane for desalination. Journal of Sol-Gel Science and Technology, 2018, 85, 280-289.	2.4	15
18	Degradation of azo dye Orange II under dark ambient conditions by calcium strontium copper perovskite. Applied Catalysis B: Environmental, 2018, 221, 691-700.	20.2	73

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19	Environmental mineralization of caffeine micro-pollutant by Fe-MFI zeolites. Environmental Science and Pollution Research, 2018, 25, 3628-3635.	5.3	10
20	Estimation of Pore Size Distribution of Amorphous Silica-Based Membrane by the Activation Energies of Gas Permeation. Processes, 2018, 6, 239.	2.8	7
21	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
22	Effective degradation of azo dyes in the dark by Cu2+ active sites in CaSrNiCu oxides. Journal of Environmental Chemical Engineering, 2018, 6, 5870-5878.	6.7	7
23	Degradation of orange II dye under dark ambient conditions by MeSrCuO (Me = Mg and Ce) metal oxides. Separation and Purification Technology, 2018, 205, 293-301.	7.9	25
24	Surface and catalytic properties of stable Me(Ba, Ca and Mg)SrCoO for the degradation of orange II dye under dark conditions. Applied Surface Science, 2018, 450, 292-300.	6.1	19
25	Enhanced hydrogen production from thermochemical processes. Energy and Environmental Science, 2018, 11, 2647-2672.	30.8	111
26	Substrate Effect on Carbon/Ceramic Mixed Matrix Membrane Prepared by a Vacuum-Assisted Method for Desalination. Processes, 2018, 6, 47.	2.8	6
27	The Neck to Particle Ratio Effect on the Mechanical and Morphological Sintering Features of Porous Stainless Steel (SS) Hollow Fibers. Advanced Engineering Materials, 2018, 20, 1800045.	3.5	4
28	Enhanced CO ₂ sorption efficiency in amine-functionalised 2D/3D graphene/silica hybrid sorbents. Chemical Communications, 2018, 54, 10586-10589.	4.1	14
29	Creating Hydrothermally Stable Inorganic Membrane Interlayers by Limiting the Anatase-to-Rutile (ATR) Transition Temperature in Doped-Titania. Industrial & Engineering Chemistry Research, 2018, 57, 11381-11389.	3.7	3
30	Investigation and simulation of the transport of gas containing mercury in microporous silica membranes. Chemical Engineering Science, 2018, 190, 286-296.	3.8	7
31	Fine ultra-micropore control using the intrinsic viscosity of precursors for high performance carbon molecular sieve membranes. Separation and Purification Technology, 2017, 177, 129-134.	7.9	17
32	Long term and performance testing of NaMg double salts for H 2 /CO 2 separation. International Journal of Hydrogen Energy, 2017, 42, 7997-8005.	7.1	3
33	Influence of porous structures on O 2 flux of BSCF asymmetric membranes. Separation and Purification Technology, 2017, 175, 164-169.	7.9	23
34	A novel route for manufacturing asymmetric BSCF-based perovskite structures by a combined tape and freeze casting method. Journal of the European Ceramic Society, 2017, 37, 5249-5257.	5.7	20
35	Copper oxide - perovskite mixed matrix membranes delivering very high oxygen fluxes. Journal of Membrane Science, 2017, 526, 323-333.	8.2	40
36	Highly compact and robust hollow fiber solid oxide cells for flexible power generation and gas production. Applied Energy, 2017, 205, 741-748.	10.1	13

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37	Feasibility study of LSCF5582 membrane integration into a nitrogen based chemical looping air separation process. Chemical Engineering Research and Design, 2017, 125, 96-107.	5.6	5
38	Zinc-doped BSCF perovskite membranes for oxygen separation. Separation and Purification Technology, 2017, 189, 399-404.	7.9	17
39	Carbonation passivation layer of scandium loaded BSCF perovskite. Ceramics International, 2017, 43, 15179-15184.	4.8	3
40	Vacuum film etching effect of carbon alumina mixed matrix membranes. Journal of Membrane Science, 2017, 541, 53-61.	8.2	13
41	Vacuum-assisted tailoring of pore structures of phenolic resin derived carbon membranes. Journal of Membrane Science, 2017, 525, 240-248.	8.2	37
42	Mixed matrix carbon stainless steel (MMCSS) hollow fibres for gas separation. Separation and Purification Technology, 2017, 174, 150-158.	7.9	13
43	Improved stability of ethyl silicate interlayer-free membranes by the rapid thermal processing (RTP) for desalination. Desalination, 2017, 402, 25-32.	8.2	23
44	Ultra-microporous membrane separation using toluene to simulate tar-containing gases. Fuel Processing Technology, 2017, 161, 259-264.	7.2	4
45	Interlayer-free hybrid carbon-silica membranes for processing brackish to brine salt solutions by pervaporation. Journal of Membrane Science, 2017, 523, 197-204.	8.2	59
46	Rapid Thermal Processing of Microporous Silica Membranes. , 2017, , 317-348.		1
47	Molecular Weight Cut-Off and Structural Analysis of Vacuum-Assisted Titania Membranes for Water Processing. Materials, 2016, 9, 938.	2.9	6
48	Physico-chemical properties of zinc partially substituted magnetite nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	1
49	Graphene oxide with zinc partially substituted magnetite (GO–Fe _{1Ⱂx} Zn _x O _y) for the UV-assisted heterogeneous Fenton-like reaction. RSC Advances, 2016, 6, 44749-44757.	3.6	9
50	Gas permeation redox effect of binary iron oxide/cobalt oxide silica membranes. Separation and Purification Technology, 2016, 171, 248-255.	7.9	18
51	Rapid thermal treatment of interlayer-free ethyl silicate 40 derived membranes for desalination. Journal of Membrane Science, 2016, 516, 94-103.	8.2	24
52	Mixed Matrix Carbon Molecular Sieve and Alumina (CMS-Al2O3) Membranes. Scientific Reports, 2016, 6, 30703.	3.3	30
53	Structural evolution of nickel oxide silica sol-gel for the preparation of interlayer-free membranes. Journal of Non-Crystalline Solids, 2016, 447, 9-15.	3.1	40
54	Pervaporation of ammonia solution with γ-alumina supported organosilica membranes. Separation and Purification Technology, 2016, 168, 141-151.	7.9	20

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55	Novel solid oxide cells with SrCo0.8Fe0.1Ga0.1O3â ^{~1} ŕ oxygen electrode for flexible power generation and hydrogen production. Journal of Power Sources, 2016, 306, 226-232.	7.8	27
56	Review of perovskite ceramic synthesis and membrane preparation methods. Ceramics International, 2016, 42, 6555-6571.	4.8	153
57	Improved pore connectivity by the reduction of cobalt oxide silica membranes. Separation and Purification Technology, 2015, 154, 338-344.	7.9	10
58	Ternary Phase-Separation Investigation of Sol-Gel Derived Silica from Ethyl Silicate 40. Scientific Reports, 2015, 5, 14560.	3.3	27
59	Nanoscale assembly of lanthanum silica with dense and porous interfacial structures. Scientific Reports, 2015, 5, 8210.	3.3	13
60	Stainless steel hollow fibres – Sintering, morphology and mechanical properties. Separation and Purification Technology, 2015, 147, 379-387.	7.9	18
61	Interlayer-free microporous cobalt oxide silica membranes via silica seeding sol–gel technique. Journal of Membrane Science, 2015, 492, 1-8.	8.2	20
62	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
63	Binary gas mixture and hydrothermal stability investigation of cobalt silica membranes. Journal of Membrane Science, 2015, 493, 470-477.	8.2	27
64	Copper aided exchange in high performance oxygen production by CuCo binary oxides for clean energy delivery. Journal of Materials Chemistry A, 2015, 3, 17344-17350.	10.3	10
65	Gas permeation redox effect on binary lanthanum cobalt silica membranes with enhanced silicate formation. Journal of Membrane Science, 2015, 489, 220-226.	8.2	27
66	Mesoporous TiO 2 based membranes for water desalination and brine processing. Separation and Purification Technology, 2015, 147, 166-171.	7.9	38
67	The sacrificial role of graphene oxide in stabilising a Fenton-like catalyst GO–Fe ₃ O ₄ . Chemical Communications, 2015, 51, 9291-9293.	4.1	179
68	Effect of titania addition on the properties of freeze-cast alumina samples. Ceramics International, 2015, 41, 10467-10475.	4.8	23
69	High performance interlayer-free mesoporous cobalt oxide silica membranes for desalination applications. Desalination, 2015, 365, 308-315.	8.2	72
70	Modulation of microporous/mesoporous structures in self-templated cobalt-silica. Scientific Reports, 2015, 5, 7970.	3.3	6
71	Hydrothermal stability investigation of micro- and mesoporous silica containing long-range ordered cobalt oxide clusters by XAS. Physical Chemistry Chemical Physics, 2015, 17, 19500-19506.	2.8	12
72	The influence of Fe2O3 doping on the pore structure and mechanical strength of TiO2-containing alumina obtained by freeze-casting. Ceramics International, 2015, 41, 14049-14056.	4.8	16

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73	Redox structural control of Pd and PdO silica matrices. RSC Advances, 2015, 5, 74144-74149.	3.6	1
74	Improved hydrothermal stability of silica materials prepared from ethyl silicate 40. RSC Advances, 2015, 5, 6092-6099.	3.6	13
75	Interlayer-free P123 carbonised template silica membranes for desalination with reduced salt concentration polarisation. Journal of Membrane Science, 2015, 475, 376-383.	8.2	90
76	Influence of sol–gel conditioning on the cobalt phase and the hydrothermal stability of cobalt oxide silica membranes. Journal of Membrane Science, 2015, 475, 425-432.	8.2	27
77	Binary iron cobalt oxide silica membrane for gas separation. Journal of Membrane Science, 2015, 474, 32-38.	8.2	50
78	Current developments of mixed conducting membranes on porous substrates. Materials Research, 2014, 17, 242-249.	1.3	14
79	A Pervaporation Study of Ammonia Solutions Using Molecular Sieve Silica Membranes. Membranes, 2014, 4, 40-54.	3.0	42
80	Adsorption and transport of gases in a supported microporous silica membrane. Journal of Membrane Science, 2014, 460, 46-61.	8.2	21
81	Fabrication of nanostructured TiO 2 hollow fiber photocatalytic membrane and application for wastewater treatment. Chemical Engineering Journal, 2014, 236, 314-322.	12.7	111
82	Recent progresses on fabrication of photocatalytic membranes for water treatment. Catalysis Today, 2014, 230, 47-54.	4.4	82
83	Claisen-type degradation mechanism of cellulose triacetate membranes in ethanol–water mixtures. Journal of Membrane Science, 2014, 454, 119-125.	8.2	19
84	Palladium cobalt binary doping of molecular sieving silica membranes. Journal of Membrane Science, 2014, 451, 185-191.	8.2	53
85	Influence of surfactant alkyl length in functionalizing sol–gel derived microporous cobalt oxide silica. RSC Advances, 2014, 4, 40181-40187.	3.6	7
86	Processing municipal wastewaters by forward osmosis using CTA membrane. Journal of Membrane Science, 2014, 468, 269-275.	8.2	103
87	Physicochemical characterisation and hydrothermal stability investigation of cobalt-incorporated silica xerogels. RSC Advances, 2014, 4, 18862-18870.	3.6	22
88	Optimisation of graphene oxide–iron oxide nanocomposite in heterogeneous Fenton-like oxidation of Acid Orange 7. Journal of Environmental Chemical Engineering, 2014, 2, 1881-1888.	6.7	62
89	The fluid dynamic effect on the driving force for a cobalt oxide silica membrane module at high temperatures. Chemical Engineering Science, 2014, 111, 142-152.	3.8	22
90	Novel microwave assisted approach to large scale nickel nanoparticle fabrication. Chemical Engineering Journal, 2014, 240, 155-160.	12.7	8

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91	Development of rapid thermal processing of tubular cobalt oxide silica membranes for gas separations. Journal of Membrane Science, 2014, 456, 192-201.	8.2	36
92	Understanding the diffusional tortuosity of porous materials: An effective medium theory perspective. Chemical Engineering Science, 2014, 110, 55-71.	3.8	36
93	The effect of non-ionic porous domains on supported Ba0.5Sr0.5Co0.8Fe0.2O3â^î´ membranes for O2 separation. Journal of Membrane Science, 2014, 454, 382-389.	8.2	13
94	Mixed Fuel Strategy for Carbon Deposition Mitigation in Solid Oxide Fuel Cells at Intermediate Temperatures. Environmental Science & Technology, 2014, 48, 7122-7127.	10.0	12
95	Structural and functional investigation of graphene oxide–Fe3O4 nanocomposites for the heterogeneous Fenton-like reaction. Scientific Reports, 2014, 4, 4594.	3.3	407
96	Fenton-Like Degradation of Acid Orange 7 Using Graphene Oxide-Iron Oxide Nanocomposite. Science of Advanced Materials, 2014, 6, 1382-1388.	0.7	18
97	Reversible Redox Effect on Gas Permeation of Cobalt Doped Ethoxy Polysiloxane (ES40) Membranes. Scientific Reports, 2013, 3, 1648.	3.3	33
98	Performance and Long Term Stability of Mesoporous Silica Membranes for Desalination. Membranes, 2013, 3, 136-150.	3.0	83
99	The transport of gases in a supported mesoporous silica membrane. Journal of Membrane Science, 2013, 438, 90-104.	8.2	23
100	Structural investigation of cobalt-doped silica derived from sol–gel synthesis. Journal of Non-Crystalline Solids, 2013, 378, 1-6.	3.1	6
101	Rapid thermal processing of tubular cobalt oxide silica membranes. International Journal of Hydrogen Energy, 2013, 38, 7394-7399.	7.1	19
102	A novel ethanol dehydration process by forward osmosis. Chemical Engineering Journal, 2013, 232, 397-404.	12.7	35
103	Simulation of binary gas separation through multi-tube molecular sieving membranes at high temperatures. Chemical Engineering Journal, 2013, 218, 394-404.	12.7	31
104	Tailoring the oxidation state of cobalt through halide functionality in sol-gel silica. Scientific Reports, 2013, 3, 2449.	3.3	15
105	Robust ion-transporting ceramic membrane with an internal short circuit for oxygen production. Journal of Materials Chemistry A, 2013, 1, 9150.	10.3	28
106	Scale-Up Design Analysis and Modelling of Cobalt Oxide Silica Membrane Module for Hydrogen Processing. Processes, 2013, 1, 49-66.	2.8	6
107	Microporous Silica Based Membranes for Desalination. Water (Switzerland), 2012, 4, 629-649.	2.7	91
108	Combined investigation of bulk diffusion and surface exchange parameters of silver catalyst coated yttrium-doped BSCF membranes. Physical Chemistry Chemical Physics, 2012, 14, 9104.	2.8	36

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109	Long term pervaporation desalination of tubular MFI zeolite membranes. Journal of Membrane Science, 2012, 415-416, 816-823.	8.2	119
110	High temperature H2/CO2 separation using cobalt oxide silica membranes. International Journal of Hydrogen Energy, 2012, 37, 12700-12707.	7.1	51
111	Computational fluid dynamics applied to high temperature hydrogen separation membranes. Frontiers of Chemical Science and Engineering, 2012, 6, 3-12.	4.4	24
112	Long term performance cobalt oxide silica membrane module for high temperature H2 separation. Energy and Environmental Science, 2012, 5, 5820.	30.8	91
113	Cobalt oxide silica membranes for desalination. Journal of Colloid and Interface Science, 2012, 368, 70-76.	9.4	80
114	The transport of gases in macroporous α-alumina supports. Journal of Membrane Science, 2012, 409-410, 24-33.	8.2	15
115	Structural Characterization and Corrosion Behavior of Stainless Steel Coated With Sol-Gel Titania. Journal of Materials Engineering and Performance, 2012, 21, 411-417.	2.5	8
116	High performance BaBiScCo hollow fibre membranes for oxygen transport. Energy and Environmental Science, 2011, 4, 2516.	30.8	77
117	Preparation, Characterization and Performance of Templated Silica Membranes in Non-Osmotic Desalination. Materials, 2011, 4, 845-856.	2.9	1
118	Yttrium doped BSCF membranes for oxygen separation. Separation and Purification Technology, 2011, 81, 88-93.	7.9	52
119	Numerical study of a metal hydride heat transformer for low-grade heat recovery. Applied Thermal Engineering, 2011, 31, 2749-2756.	6.0	25
120	High performance perovskite hollow fibres for oxygen separation. Journal of Membrane Science, 2011, 368, 64-68.	8.2	129
121	Palladium surface modified La0.6Sr0.4Co0.2Fe0.8O3â^' hollow fibres for oxygen separation. Journal of Membrane Science, 2011, 380, 223-231.	8.2	59
122	Production of pure oxygen from BSCF hollow fiber membranes using steam sweep. Separation and Purification Technology, 2011, 78, 220-227.	7.9	33
123	H2S stability and separation performance of cobalt oxide silica membranes. Journal of Membrane Science, 2011, 380, 48-54.	8.2	40
124	Preparation and oxygen permeation properties of SrCo0.9Nb0.1O3â^î´hollow fibre membranes. Separation and Purification Technology, 2011, 78, 175-180.	7.9	24
125	Iron Oxide Silica Derived from Sol-Gel Synthesis. Materials, 2011, 4, 448-456.	2.9	33
126	Preparation, Characterization and Performance of Templated Silica Membranes in Non-Osmotic Desalination. Materials, 2011, 4, 845-856.	2.9	40

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127	Atmospheric and hydrological transport modelling of SOx emissions in a unique verification context. AICHE Journal, 2010, 56, 815-824.	3.6	0
128	Membrane reactor modelling, validation and simulation for the WGS reaction using metal doped silica membranes. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 83-92.	1.5	19
129	Structure effect on the oxygen permeation properties of barium bismuth iron oxide membranes. Journal of Membrane Science, 2010, 351, 44-49.	8.2	14
130	Long-term flue gas exposure effects of silica membranes on porous steel substrate. Journal of Membrane Science, 2010, 359, 110-114.	8.2	28
131	Bi-doping effects on the structure and oxygen permeation properties of BaSc0.1Co0.9O3â^1^´ perovskite membranes. Journal of Membrane Science, 2010, 361, 120-125.	8.2	38
132	Assessment of postcombustion carbon capture technologies for power generation. Frontiers of Chemical Engineering in China, 2010, 4, 184-195.	0.6	48
133	High temperature steam investigation of cobalt oxide silica membranes for gas separation. Separation and Purification Technology, 2010, 76, 171-178.	7.9	45
134	Study on composite membranes with high selective permeance properties. Journal of Membrane Science, 2010, 346, 318-326.	8.2	14
135	Synthesis of Sintering-Resistant Sorbents for CO ₂ Capture. Environmental Science & Technology, 2010, 44, 3093-3097.	10.0	213
136	Ceramic membranes for gas processing in coal gasification. Energy and Environmental Science, 2010, 3, 268.	30.8	171
137	Calcium Precursors for the Production of CaO Sorbents for Multicycle CO ₂ Capture. Environmental Science & Technology, 2010, 44, 841-847.	10.0	234
138	Recent Advance of Zero Emission Technologies for Coal-Based Power Generations Systems. , 2009, , .		2
139	Characterization and Pervaporation Study on Ethanol Separation Membranes. Drying Technology, 2009, 27, 538-541.	3.1	7
140	Effect of Nano-Al ₂ O ₃ Addition on the Densification of YSZ Electrolytes. Journal of Nano Research, 2009, 6, 115-122.	0.8	9
141	Evaluation of mixedâ€conducting lanthanumâ€strontiumâ€cobaltite ceramic membrane for oxygen separation. AICHE Journal, 2009, 55, 2603-2613.	3.6	26
142	Modelling gas purification systems employing molecular sieve silica membranes. Separation and Purification Technology, 2009, 66, 559-564.	7.9	9
143	Cobalt-doped silica membranes for gas separation. Journal of Membrane Science, 2009, 326, 316-321.	8.2	98
144	Performance of cobalt silica membranes in gas mixture separation. Journal of Membrane Science, 2009, 329, 91-98.	8.2	72

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145	The enhancement of oxygen flux on Ba0.5Sr0.5Co0.8Fe0.2O3â~δ (BSCF) hollow fibers using silver surface modification. Journal of Membrane Science, 2009, 340, 148-153.	8.2	91
146	Development of mixed conducting membranes for clean coal energy delivery. International Journal of Greenhouse Gas Control, 2009, 3, 357-367.	4.6	159
147	Hydrothermal stability of cobalt silica membranes in a water gas shift membrane reactor. Separation and Purification Technology, 2009, 66, 299-305.	7.9	115
148	Seawater desalination performance of MFI type membranes made by secondary growth. Separation and Purification Technology, 2009, 68, 343-350.	7.9	145
149	Further performance improvement of Ba0.5Sr0.5Co0.8Fe0.2O3â^î^r perovskite membranes for air separation. Ceramics International, 2009, 35, 2455-2461.	4.8	43
150	Carbonised template silica membranes for desalination. Desalination, 2009, 236, 291-298.	8.2	76
151	"High Temperature Gas Separation Membranes in Coal Gasification― Energy Procedia, 2009, 1, 295-302.	1.8	23
152	High temperature materials for CO2 capture. Energy Procedia, 2009, 1, 623-630.	1.8	76
153	Phosphonic acid functionalized silicas for intermediate temperature proton conduction. Journal of Materials Chemistry, 2009, 19, 2363.	6.7	50
154	Porous Silica Nanospheres Functionalized with Phosphonic Acid as Intermediate-Temperature Proton Conductors. Journal of Physical Chemistry C, 2009, 113, 3157-3163.	3.1	44
155	Metal doped silica membrane reactor: Operational effects of reaction and permeation for the water gas shift reaction. Journal of Membrane Science, 2008, 316, 46-52.	8.2	98
156	Exposing the Molecular Sieving Architecture of Amorphous Silica Using Positron Annihilation Spectroscopy. Advanced Functional Materials, 2008, 18, 3818-3826.	14.9	69
157	Mixed ionic–electronic conducting (MIEC) ceramic-based membranes for oxygen separation. Journal of Membrane Science, 2008, 320, 13-41.	8.2	1,006
158	Hydrogen gas mixture separation by CVD silica membrane. Journal of Membrane Science, 2008, 323, 144-147.	8.2	72
159	Novel Nafion composite membranes with mesoporous silica nanospheres as inorganic fillers. Journal of Power Sources, 2008, 185, 664-669.	7.8	106
160	Fuel cells development and hydrogen production from renewable resources in Brazil. International Journal of Hydrogen Energy, 2008, 33, 4915-4935.	7.1	97
161	Effect of SO _{<i>x</i>} Adsorption on Layered Double Hydroxides for CO ₂ Capture. Industrial & Engineering Chemistry Research, 2008, 47, 7357-7360.	3.7	41
162	Influence of Water on High-Temperature CO ₂ Capture Using Layered Double Hydroxide Derivatives. Industrial & Engineering Chemistry Research, 2008, 47, 2630-2635.	3.7	138

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163	Silica membrane reactors for hydrogen processing. Advances in Applied Ceramics, 2007, 106, 29-34.	1.1	15
164	Proton conduction of ordered mesoporous silica-methanesulfonic acid hybrids. Studies in Surface Science and Catalysis, 2007, , 817-820.	1.5	0
165	Performance of porous inorganic membranes in non-osmotic desalination. Water Research, 2007, 41, 3998-4004.	11.3	103
166	Physical and Electrochemical Characterization of Nanocomposite Membranes of Nafion and Functionalized Silicon Oxide. Chemistry of Materials, 2007, 19, 2372-2381.	6.7	95
167	Bioceramic Macrocapsules for Cell Immunoisolation. Angewandte Chemie - International Edition, 2007, 46, 3062-3065.	13.8	3
168	Hydrolytically Stable Phosphorylated Hybrid Silicas for Proton Conduction. Advanced Functional Materials, 2007, 17, 3304-3311.	14.9	109
169	Proton conductive composite membrane of phosphosilicate and polyvinyl alcohol. Solid State Ionics, 2007, 178, 937-942.	2.7	41
170	Nafion-MPMDMS nanocomposite membranes with low methanol permeability. Electrochemistry Communications, 2007, 9, 781-786.	4.7	34
171	Significant effects of sintering temperature on the performance of La0.6Sr0.4Co0.2Fe0.8O3â^î^ oxygen selective membranes. Journal of Membrane Science, 2007, 302, 171-179.	8.2	120
172	Nafion/polyaniline/silica composite membranes for direct methanol fuel cell application. Journal of Power Sources, 2007, 166, 324-330.	7.8	115
173	Inorganic membranes for hydrogen production and purification: A critical review and perspective. Journal of Colloid and Interface Science, 2007, 314, 589-603.	9.4	522
174	From Chelating Precursor to Perovskite Oxides and Hollow Fiber Membranes. Journal of the American Ceramic Society, 2007, 90, 84-91.	3.8	9
175	Fourier transform method for sensitivity analysis in coal fired power plant. Energy Conversion and Management, 2007, 48, 2699-2707.	9.2	5
176	Flowfields on feed and permeate sides of tubular molecular sieving silica (MSS) membranes. Journal of Membrane Science, 2007, 299, 229-235.	8.2	41
177	Layered Double Hydroxides for CO2Capture: Structure Evolution and Regeneration. Industrial & Engineering Chemistry Research, 2006, 45, 7504-7509.	3.7	264
178	An analysis of the Peclet and Damkohler numbers for dehydrogenation reactions using molecular sieve silica (MSS) membrane reactors. Catalysis Today, 2006, 116, 12-17.	4.4	66
179	Hydrogen from coal: Production and utilisation technologies. International Journal of Coal Geology, 2006, 65, 213-222.	5.0	140
180	Oxygen permeation through perovskite membranes and the improvement of oxygen flux by surface modification. Science and Technology of Advanced Materials, 2006, 7, 819-825.	6.1	41

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181	Hydrothermally Robust Molecular Sieve Silica for Wet Gas Separation. Advanced Functional Materials, 2006, 16, 1215-1220.	14.9	177
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