AdÃ©lio M M Mendes

List of Publications by Year
in descending order

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434 papers	15,950 citations	20759 60 h-index	32761 100 g-index
450 all docs	450 docs citations	450 times ranked	17410 citing authors

#	Article	IF	Citations
1	Catalysts for methanol steam reformingâ€”A review. Applied Catalysis B: Environmental, 2010, 99, 43-57.	10.8	696
2	Methanol steam reforming for hydrogen generation via conventional and membrane reactors: A review. Renewable and Sustainable Energy Reviews, 2014, 29, 355-368.	8.2	388
3	Dye-sensitized solar cells: A safe bet for the future.. Energy and Environmental Science, 2008, 1, 655.	15.6	373
4	N-doped carbon quantum dots/TiO2 composite with improved photocatalytic activity. Applied Catalysis B: Environmental, 2016, 193, 67-74.	10.8	291
5	Optical band gaps of organic semiconductor materials. Optical Materials, 2016, 58, 51-60.	1.7	268
6	Effect of incorporation of graphene oxide and graphene nanoplatelets on mechanical and gas permeability properties of poly(lactic acid) films. Polymer International, 2013, 62, 33-40.	1.6	261
7	Characterization of photoelectrochemical cells for water splitting by electrochemical impedance spectroscopy. International Journal of Hydrogen Energy, 2010, 35, 11601-11608.	3.8	245
8	An overview of photocatalysis phenomena applied to NOx abatement. Journal of Environmental Management, 2013, 129, 522-539.	3.8	213
9	A key review of building integrated photovoltaic (BIPV) systems. Engineering Science and Technology, an International Journal, 2017, 20, 833-858.	2.0	207
10	Recent advances in membrane technologies for hydrogen purification. International Journal of Hydrogen Energy, 2020, 45, 7313-7338.	3.8	202
11	The waterâ€gas shift reaction: from conventional catalytic systems to Pdâ€based membrane reactorsâ€”a review. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 111-137.	0.8	185
12	Extremely stable bare hematite photoanode for solar water splitting. Nano Energy, 2016, 23, 70-79.	8.2	171
13	Hematite photoelectrodes for water splitting: evaluation of the role of film thickness by impedance spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 16515.	1.3	162
14	Solubility of carbon dioxide in aqueous solutions of amino acid salts. Chemical Engineering Science, 2009, 64, 1993-2002.	1.9	156
15	Characterization of potassium glycinate for carbon dioxide absorption purposes. Chemical Engineering Science, 2007, 62, 6534-6547.	1.9	153
16	Transparent Cuprous Oxide Photocathode Enabling a Stacked Tandem Cell for Unbiased Water Splitting. Advanced Energy Materials, 2015, 5, 1501537.	10.2	149
17	Proton electrolyte membrane properties and direct methanol fuel cell performance. Journal of Power Sources, 2005, 140, 34-40.	4.0	146
18	Biocompatibility of poly(lactic acid) with incorporated graphene-based materials. Colloids and Surfaces B: Biointerfaces, 2013, 104, 229-238.	2.5	136

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19	Segmented polymer electrolyte membrane fuel cellsâ€"A review. Renewable and Sustainable Energy Reviews, 2011, 15, 169-185.	8.2	122
20	On the stability enhancement of cuprous oxide water splitting photocathodes by low temperature steam annealing. Energy and Environmental Science, 2014, 7, 4044-4052.	15.6	121
21	Photoelectrochemical water splitting using WO₃ photoanodes: the substrate and temperature roles. Physical Chemistry Chemical Physics, 2016, 18, 5232-5243.	1.3	120
22	Review on nanostructured photoelectrodes for next generation dye-sensitized solar cells. Renewable and Sustainable Energy Reviews, 2013, 27, 334-349.	8.2	118
23	Direct CO2 hydrogenation to methane or methanol from post-combustion exhaust streams â€" A thermodynamic study. Journal of Natural Gas Science and Engineering, 2015, 22, 1-8.	2.1	115
24	Carbon molecular sieve membranesSorption, kinetic and structural characterization. Journal of Membrane Science, 2004, 241, 275-287.	4.1	113
25	Enhancing the production of hydrogen via waterâ€"gas shift reaction using Pd-based membrane reactors. International Journal of Hydrogen Energy, 2010, 35, 12596-12608.	3.8	112
26	Reduced graphene oxide films as transparent counter-electrodes for dye-sensitized solar cells. Solar Energy, 2012, 86, 716-724.	2.9	111
27	Dealcoholizing wine by membrane separation processes. Innovative Food Science and Emerging Technologies, 2011, 12, 330-337.	2.7	110
28	Perovskite solar cells: Materials, configurations and stability. Renewable and Sustainable Energy Reviews, 2018, 82, 2471-2489.	8.2	109
29	CuO/ZnO catalysts for methanol steam reforming: The role of the support polarity ratio and surface area. Applied Catalysis B: Environmental, 2015, 174-175, 67-76.	10.8	107
30	Characterization of TiO2-based semiconductors for photocatalysis by electrochemical impedance spectroscopy. Applied Surface Science, 2016, 387, 183-189.	3.1	100
31	Direct Solar Charging of an Organicâ€"Inorganic, Stable, and Aqueous Alkaline Redox Flow Battery with a Hematite Photoanode. Angewandte Chemie - International Edition, 2016, 55, 7142-7147.	7.2	95
32	Performance and efficiency of a DMFC using non-fluorinated composite membranes operating at low/medium temperatures. Journal of Power Sources, 2005, 145, 485-494.	4.0	93
33	Decoupled Photoelectrochemical Water Splitting System for Centralized Hydrogen Production. Joule, 2020, 4, 448-471.	11.7	91
34	Preparation and characterization of bacterial cellulose membranes with tailored surface and barrier properties. Cellulose, 2010, 17, 1203-1211.	2.4	87
35	Scavengers for achieving zero formaldehyde emission of wood-based panels. Wood Science and Technology, 2013, 47, 1261-1272.	1.4	87
36	Tin oxide as stable protective layer for composite cuprous oxide water-splitting photocathodes. Nano Energy, 2016, 24, 10-16.	8.2	84

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37	Demonstration of a 50 cm² BiVO₄ tandem photoelectrochemical-photovoltaic water splitting device. Sustainable Energy and Fuels, 2019, 3, 2366-2379.	2.5	84
38	Characterization and application of composite membranes in DMFC. Catalysis Today, 2005, 104, 205-212.	2.2	83
39	An innovative photoelectrochemical lab device for solar water splitting. Solar Energy Materials and Solar Cells, 2014, 128, 399-410.	3.0	83
40	Hematite-based photoelectrode for solar water splitting with very high photovoltage. Nano Energy, 2017, 38, 218-231.	8.2	83
41	Water adsorption on carbon molecular sieve membranes: Experimental data and isotherm model. Carbon, 2005, 43, 2769-2779.	5.4	82
42	A sorptive reactor for CO 2 capture and conversion to renewable methane. Chemical Engineering Journal, 2017, 322, 590-602.	6.6	82
43	High-Purity Oxygen Production by Pressure Swing Adsorption. Industrial & Engineering Chemistry Research, 2007, 46, 591-599.	1.8	81
44	Concentrated solar power for renewable electricity and hydrogen production from waterâ€”a review. Energy and Environmental Science, 2010, 3, 1398.	15.6	78
45	Aging study of carbon molecular sieve membranes. Journal of Membrane Science, 2008, 310, 494-502.	4.1	77
46	Treatment of azo dye-containing wastewater by a Fenton-like process in a continuous packed-bed reactor filled with activated carbon. Journal of Hazardous Materials, 2012, 237-238, 30-37.	6.5	75
47	Temperature Impact on Perovskite Solar Cells Under Operation. ChemSusChem, 2019, 12, 2186-2194.	3.6	75
48	Composite phenolic resin-based carbon molecular sieve membranes for gas separation. Carbon, 2011, 49, 4348-4358.	5.4	74
49	Activation procedures characterization of MEA based on phosphoric acid doped PBI membranes. International Journal of Hydrogen Energy, 2010, 35, 11649-11660.	3.8	73
50	Hydrogen production by methanol steam reforming in a membrane reactor: Palladium vs carbon molecular sieve membranes. Journal of Membrane Science, 2009, 339, 160-170.	4.1	71
51	Innovative ZrO2-supported CuPd catalysts for the selective production of hydrogen from methanol steam reforming. Applied Catalysis B: Environmental, 2017, 203, 400-407.	10.8	70
52	Proton electrolyte membrane properties and direct methanol fuel cell performance. Journal of Power Sources, 2005, 140, 41-49.	4.0	69
53	Non-alcoholic beerâ€”A new industrial process. Separation and Purification Technology, 2011, 79, 342-351.	3.9	69
54	Photocatalytic membrane reactor performance towards oxytetracycline removal from synthetic and real matrices: Suspended vs immobilized TiO2-P25. Chemical Engineering Journal, 2019, 378, 122114.	6.6	69

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55	Highly active photocatalytic paint for NOx abatement under real-outdoor conditions. Applied Catalysis A: General, 2014, 484, 17-25.	2.2	67
56	Experimental and modeling studies on the low-temperature water-gas shift reaction in a dense Pdâ€“Ag packed-bed membrane reactor. Chemical Engineering Science, 2011, 66, 2356-2367.	1.9	64
57	CuO/ZnO/Ga2O3 catalyst for low temperature MSR reaction: Synthesis, characterization and kinetic model. Applied Catalysis B: Environmental, 2018, 221, 371-379.	10.8	64
58	Preparation and characterization of carbon molecular sieve membranes based on resorcinolâ€“formaldehyde resin. Journal of Membrane Science, 2014, 459, 207-216.	4.1	63
59	Unbiased solar energy storage: Photoelectrochemical redox flow battery. Nano Energy, 2016, 22, 396-405.	8.2	63
60	Recent Developments in the Optimization of the Bulk Heterojunction Morphology of Polymer: Fullerene Solar Cells. Materials, 2018, 11, 2560.	1.3	63
61	Progress in Upscaling Organic Photovoltaic Devices. Advanced Energy Materials, 2021, 11, 2100342.	10.2	63
62	Temperature effect on water splitting using a Si-doped hematite photoanode. Journal of Power Sources, 2014, 272, 567-580.	4.0	62
63	Zirconium oxide hybrid membranes for direct methanol fuel cellsâ€”Evaluation of transport properties. Journal of Membrane Science, 2006, 284, 137-144.	4.1	61
64	Dipeptide Crystals as Excellent Permselective Materials: Sequential Exclusion of Argon, Nitrogen, and Oxygen. Angewandte Chemie - International Edition, 2010, 49, 3034-3036.	7.2	61
65	High temperature CO2 sorption with gallium-substituted and promoted hydrotalcites. Separation and Purification Technology, 2014, 127, 202-211.	3.9	61
66	Study and optimization of aroma recovery from beer by pervaporation. Journal of Membrane Science, 2009, 341, 51-59.	4.1	60
67	Alcohol Removal From Beer by Reverse Osmosis. Separation Science and Technology, 2007, 42, 3011-3027.	1.3	59
68	Alternative to latent catalysts for curing UF resins used in the production of low formaldehyde emission wood-based panels. International Journal of Adhesion and Adhesives, 2012, 33, 56-60.	1.4	59
69	Laser assisted glass frit sealing of dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2012, 96, 43-49.	3.0	59
70	Intrinsic kinetics of CO2 methanation over an industrial nickel-based catalyst. Journal of CO2 Utilization, 2018, 25, 128-136.	3.3	59
71	Carbon dioxide absorption kinetics in potassium threonate. Chemical Engineering Science, 2008, 63, 3493-3503.	1.9	57
72	Effective Adsorption Equilibrium Isotherms and Breakthroughs of Water Vapor and Carbon Dioxide on Different Adsorbents. Industrial & Engineering Chemistry Research, 2011, 50, 10201-10210.	1.8	57

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73	Steam reforming of methanol over a CuO/ZnO/Al2O3 catalyst, part I: Kinetic modelling. Chemical Engineering Science, 2011, 66, 4913-4921.	1.9	57
74	Effect of CO and CO2 on H2 permeation through finger-like Pdâ€“Ag membranes. International Journal of Hydrogen Energy, 2012, 37, 12680-12687.	3.8	57
75	PSA purification of waste hydrogen from ammonia plants to fuel cell grade. Separation and Purification Technology, 2020, 240, 116334.	3.9	57
76	Removal of acetone, ethyl acetate and ethanol vapors from air using a hollow fiber PDMS membrane module. Journal of Membrane Science, 2002, 197, 211-222.	4.1	56
77	Carbon molecular sieve membranes from cellophane paper. Journal of Membrane Science, 2010, 350, 180-188.	4.1	55
78	High temperature PEM fuel cell integrated with a cellular membrane methanol steam reformer: Experimental and modelling. Applied Energy, 2018, 215, 659-669.	5.1	55
79	Simulation of separation processes using finite volume method. Computers and Chemical Engineering, 2005, 30, 83-98.	2.0	54
80	Ultraselective low temperature steam reforming of methanol over PdZn/ZnO catalystsâ€”Influence of induced support defects on catalytic performance. Applied Catalysis B: Environmental, 2014, 154-155, 316-328.	10.8	54
81	Optimized photoelectrochemical tandem cell for solar water splitting. Energy Storage Materials, 2018, 13, 175-188.	9.5	54
82	Advanced hermetic encapsulation of perovskite solar cells: the route to commercialization. Journal of Materials Chemistry A, 2020, 8, 2654-2662.	5.2	54
83	Mass transport of direct methanol fuel cell species in sulfonated poly(ether ether ketone) membranes. Electrochimica Acta, 2006, 51, 3699-3706.	2.6	53
84	Simultaneous distillationâ€“extraction of high-value volatile compounds from Cistus ladanifer L.. Analytica Chimica Acta, 2007, 584, 439-446.	2.6	53
85	Phenomenological modeling of dye-sensitized solar cells under transient conditions. Solar Energy, 2011, 85, 781-793.	2.9	53
86	The influence of the support composition on the physicochemical and catalytic properties of Cu catalysts supported on Zirconia-Alumina for methanol steam reforming. Applied Catalysis B: Environmental, 2020, 277, 119243.	10.8	53
87	Hysteresis in the cyclic adsorption of acetone, ethanol and ethyl acetate on activated carbon. Carbon, 2000, 38, 1083-1088.	5.4	52
88	Cyclic adsorption separation processes: analysis strategy and optimization procedure. Chemical Engineering Science, 2003, 58, 3143-3158.	1.9	52
89	The role of the Ti surface roughness in the self-ordering of TiO₂ nanotubes: a detailed study of the growth mechanism. Journal of Materials Chemistry A, 2014, 2, 9067-9078.	5.2	52
90	Composite-alumina-carbon molecular sieve membranes prepared from novolac resin and boehmite. Part II: Effect of the carbonization temperature on the gas permeation properties. International Journal of Hydrogen Energy, 2015, 40, 3485-3496.	3.8	52

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91	Oxygen separation from air by PSA: modelling and experimental results. Separation and Purification Technology, 2001, 24, 173-188.	3.9	51
92	Peptide-based solids: porosity and zeolitic behavior. Journal of Materials Chemistry, 2012, 22, 1709-1723.	6.7	50
93	Sustainability and economic evaluation of microalgae grown in brewery wastewater. Bioresource Technology, 2014, 168, 151-158.	4.8	50
94	Impact of using cool paints on energy demand and thermal comfort ofÂa residential building. Applied Thermal Engineering, 2014, 65, 273-281.	3.0	50
95	A passive direct methanol fuel cell as transducer of an electrochemical sensor, applied to the detection of carcinoembryonic antigen. Biosensors and Bioelectronics, 2021, 175, 112877.	5.3	50
96	Separation of an Anionic Surfactant by Nanofiltration. Environmental Science & Technology, 1999, 33, 2758-2764.	4.6	48
97	Composite-alumina-carbon molecular sieve membranes prepared from novolac resin and boehmite. Part I: Preparation, characterization and gas permeation studies. International Journal of Hydrogen Energy, 2015, 40, 5653-5663.	3.8	48
98	The influence of CO on the current density distribution of high temperature polymer electrolyte membrane fuel cells. Electrochimica Acta, 2011, 56, 9467-9475.	2.6	47
99	Are TiO2-based exterior paints useful catalysts for gas-phase photooxidation processes? A case study on n-decane abatement for air detoxification. Applied Catalysis B: Environmental, 2014, 147, 988-999.	10.8	47
100	Steam reforming of methanol over a CuO/ZnO/Al2O3 catalyst part II: A carbon membrane reactor. Chemical Engineering Science, 2011, 66, 5523-5530.	1.9	46
101	An optimization based on simulation approach to the patient admission scheduling problem using a linear programing algorithm. Journal of Biomedical Informatics, 2014, 52, 427-437.	2.5	46
102	Heat integration of methanol steam reformer with a high-temperature polymeric electrolyte membrane fuel cell. Energy, 2017, 120, 468-477.	4.5	46
103	Modelling of a high-temperature polymer electrolyte membrane fuel cell integrated with a methanol steam reformer cell. Applied Energy, 2017, 202, 6-19.	5.1	46
104	Influence of Sodium Cations of N3 Dye on the Photovoltaic Performance and Stability of Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2009, 10, 1117-1124.	1.0	45
105	Comparison of Nanosized Gold-Based and Copper-Based Catalysts for the Low-Temperature Waterâ"Gas Shift Reaction. Industrial & Engineering Chemistry Research, 2009, 48, 430-439.	1.8	45
106	Effect of the preparation method on the catalytic activity and stability of Au/Fe2O3 catalysts in the low-temperature waterâ€"gas shift reaction. Applied Catalysis A: General, 2014, 470, 45-55.	2.2	45
107	On the determination of diffusivity and sorption coefficients using different time-lag models. Journal of Membrane Science, 2003, 221, 123-133.	4.1	44
108	Photo-oxidation of NO using an exterior paint â€" Screening of various commercial titania in powder pressed and paint films. Journal of Environmental Management, 2011, 92, 1724-1732.	3.8	44

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109	Enhancing the low temperature waterâ€“gas shift reaction through a hybrid sorption-enhanced membrane reactor for high-purity hydrogen production. Fuel, 2015, 159, 854-863.	3.4	44
110	Boehmite-phenolic resin carbon molecular sieve membranesâ€”Permeation and adsorption studies. Chemical Engineering Research and Design, 2014, 92, 2668-2680.	2.7	43
111	Three-dimensional modeling of PEMFC with contaminated anode fuel. Energy, 2018, 152, 939-959.	4.5	43
112	Preparation of carbon molecular sieve membranes from an optimized ionic liquid-regenerated cellulose precursor. Journal of Membrane Science, 2019, 572, 390-400.	4.1	43
113	Removal of Industrial Cutting Oil from Oil Emulsions by Polymeric Ultra- and Microfiltration Membranes. Environmental Science & Technology, 2004, 38, 4878-4883.	4.6	42
114	On the optimization of cyclic adsorption separation processes. AICHE Journal, 2005, 51, 1377-1395.	1.8	42
115	Single-Stage Pressure Swing Adsorption for Producing Fuel Cell Grade Hydrogen. Industrial & Engineering Chemistry Research, 2018, 57, 5106-5118.	1.8	42
116	Towards an efficient and durable self-cleaning acrylic paint containing mesoporous TiO 2 microspheres. Progress in Organic Coatings, 2018, 118, 48-56.	1.9	42
117	Solar Redox Flow Batteries with Organic Redox Couples in Aqueous Electrolytes: A Minireview. Journal of Physical Chemistry C, 2018, 122, 25729-25740.	1.5	42
118	XPS analysis of ZnO:Ga films deposited by magnetron sputtering: Substrate bias effect. Applied Surface Science, 2018, 458, 1043-1049.	3.1	42
119	Chain Length Dependence of the Thermodynamic Properties of n-Alkanes and their Monosubstituted Derivatives. Journal of Chemical & Engineering Data, 2018, 63, 1-20.	1.0	41
120	Preparation and evaluation of the barrier properties of cellophane membranes modified with fatty acids. Carbohydrate Polymers, 2011, 83, 836-842.	5.1	40
121	Carbonâ€“Al2O3â€“Ag composite molecular sieve membranes for gas separation. Chemical Engineering Research and Design, 2012, 90, 2338-2345.	2.7	40
122	Integrated design of hematite and dye-sensitized solar cell for unbiased solar charging of an organic-inorganic redox flow battery. Nano Energy, 2019, 62, 832-843.	8.2	39
123	Redox flow batteries: a new frontier on energy storage. Sustainable Energy and Fuels, 2021, 5, 5366-5419.	2.5	39
124	Comparative study between a CMS membrane and a CMS adsorbent: Part Iâ€”Morphology, adsorption equilibrium and kinetics. Journal of Membrane Science, 2010, 346, 15-25.	4.1	38
125	Impedance characterization of dye-sensitized solar cells in a tandem arrangement for hydrogen production by water splitting. International Journal of Hydrogen Energy, 2010, 35, 8876-8883.	3.8	38
126	A sustainability assessment of advanced materials for novel housing solutions. Building and Environment, 2015, 92, 182-191.	3.0	38

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127	Synergetic integration of a methanol steam reforming cell with a high temperature polymer electrolyte fuel cell. International Journal of Hydrogen Energy, 2017, 42, 13902-13912.	3.8	38
128	Synthesis and characterization of novel thieno[3,2- b]thiophene based metal-free organic dyes with different heteroaromatic donor moieties as sensitizers for dye-sensitized solar cells. Dyes and Pigments, 2017, 136, 46-53.	2.0	38
129	Unbiased, complete solar charging of a neutral flow battery by a single Si photocathode. RSC Advances, 2018, 8, 6331-6340.	1.7	38
130	LABVIRTUALâ€"A virtual platform to teach chemical processes. Education for Chemical Engineers, 2009, 4, e9-e19.	2.8	37
131	Methanol crossover reduction by Nafion modification with palladium composite nanoparticles: Application to direct methanol fuel cells. International Journal of Hydrogen Energy, 2010, 35, 11561-11567.	3.8	37
132	Influence of photocatalytic paint components on the photoactivity of P25 towards NO abatement. Catalysis Today, 2010, 151, 77-83.	2.2	37
133	Using wavelets for solving PDEs: an adaptive collocation method. Chemical Engineering Science, 2001, 56, 3305-3309.	1.9	36
134	Preliminary feasibility study for the use of an adsorption/bio-regeneration system for molinate removal from effluents. Water Research, 2004, 38, 2677-2684.	5.3	36
135	Effect of fuel utilization on the carbon monoxide poisoning dynamics of Polymer Electrolyte Membrane Fuel Cells. Journal of Power Sources, 2014, 258, 122-128.	4.0	36
136	Simulation and experimental results of a PSA process for production of hydrogen used in fuel cells. Journal of Environmental Chemical Engineering, 2018, 6, 338-355.	3.3	36
137	Transient phenomenological modeling of photoelectrochemical cells for water splitting â€" Application to undoped hematite electrodes. International Journal of Hydrogen Energy, 2011, 36, 175-188.	3.8	35
138	Application of Au/TiO2 catalysts in the low-temperature waterâ€"gas shift reaction. International Journal of Hydrogen Energy, 2016, 41, 4670-4681.	3.8	35
139	Solar water splitting under natural concentrated sunlight using a 200Âcm2 photoelectrochemical-photovoltaic device. Journal of Power Sources, 2020, 454, 227890.	4.0	35
140	Beer dealcoholization by reverse osmosis. Desalination, 2006, 200, 397-399.	4.0	34
141	Generalized linear driving force approximation for adsorption of multicomponent mixtures. Chemical Engineering Science, 2006, 61, 3519-3531.	1.9	34
142	Contamination of Zeolites Used in Oxygen Production by PSA: Effects of Water and Carbon Dioxide. Industrial & Engineering Chemistry Research, 2008, 47, 6197-6203.	1.8	34
143	Role of temperature in the recombination reaction on dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2015, 17, 22699-22710.	1.3	34
144	Comparison of passive cooling techniques in improving thermal comfort of occupants of a pre-fabricated building. Energy and Buildings, 2016, 120, 30-44.	3.1	34

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145	COx free hydrogen production through water-gas shift reaction in different hybrid multifunctional reactors. Chemical Engineering Journal, 2019, 356, 727-736.	6.6	34
146	Cellulose-Based Carbon Molecular Sieve Membranes for Gas Separation: A Review. Molecules, 2020, 25, 3532.	1.7	34
147	Evaluation of urea-formaldehyde adhesives performance by recently developed mechanical tests. International Journal of Adhesion and Adhesives, 2011, 31, 127-134.	1.4	33
148	Insights into UV-TiO2 photocatalytic degradation of PCE for air decontamination systems. Chemical Engineering Journal, 2012, 204-206, 244-257.	6.6	33
149	Effect of natural and synthetic antioxidants incorporation on the gas permeation properties of poly(lactic acid) films. Journal of Food Engineering, 2013, 116, 562-571.	2.7	33
150	Surface effects and CO/CO2 influence in the H2 permeation through a Pdâ€“Ag membrane: A comprehensive model. International Journal of Hydrogen Energy, 2015, 40, 6566-6572.	3.8	33
151	Photocatalytic oxidation of gaseous perchloroethylene over TiO 2 based paint. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 311, 41-52.	2.0	33
152	Dye-Sensitized Solar Cells for Efficient Solar and Artificial Light Conversion. ACS Sustainable Chemistry and Engineering, 2019, 7, 13464-13470.	3.2	33
153	Optical and Photovoltaic Properties of Thieno[3,2-b]thiophene-Based Pushâ€“Pull Organic Dyes with Different Anchoring Groups for Dye-Sensitized Solar Cells. ACS Omega, 2017, 2, 9268-9279.	1.6	32
154	Adaptive multiresolution approach for solution of hyperbolic PDEs. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3909-3928.	3.4	31
155	Recovery of acetone, ethyl acetate and ethanol by thermal pressure swing adsorption. Chemical Engineering Science, 2003, 58, 5279-5289.	1.9	31
156	Oxidation of microcystin-LR and cylindrospermopsin by heterogeneous photocatalysis using a tubular photoreactor packed with different TiO2 coated supports. Chemical Engineering Journal, 2015, 266, 100-111.	6.6	31
157	Two-Stage Vacuum Pressure Swing Adsorption Using AgLiLSX Zeolite for Producing 99.5+% Oxygen from Air. Industrial & Engineering Chemistry Research, 2016, 55, 722-736.	1.8	31
158	H2 production with low carbon content via MSR in packed bed membrane reactors for high-temperature polymeric electrolyte membrane fuel cell. Applied Energy, 2017, 188, 409-419.	5.1	31
159	Xenon recycling in an anaesthetic closed-system using carbon molecular sieve membranes. Journal of Membrane Science, 2007, 301, 29-38.	4.1	30
160	Transparent graphene-based counter-electrodes for iodide/triiodide mediated dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 2028.	5.2	30
161	The influence of impurities in high temperature polymer electrolyte membrane fuel cells performance. International Journal of Hydrogen Energy, 2016, 41, 19771-19780.	3.8	30
162	Modeling a catalytic polymeric non-porous membrane reactor. Journal of Membrane Science, 2001, 181, 241-252.	4.1	29

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163	Determination of the Low-Temperature Waterâ"Gas Shift Reaction Kinetics Using a Cu-Based Catalyst. Industrial & Engineering Chemistry Research, 2010, 49, 11269-11279.	1.8	29
164	Biomass and central receiver system (CRS) hybridization: Volumetric air CRS and integration of a biomass waste direct burning boiler on steam cycle. Solar Energy, 2012, 86, 2912-2922.	2.9	29
165	Modeling, simulation and design of dye sensitized solar cells. RSC Advances, 2014, 4, 2830-2844.	1.7	29
166	Development of hermetic glass frit encapsulation for perovskite solar cells. Journal Physics D: Applied Physics, 2019, 52, 074005.	1.3	29
167	Redox Flow Batteries: Materials, Design and Prospects. Energies, 2021, 14, 5643.	1.6	29
168	Development of a methodology to optimize the air bleed in PEMFC systems operating with low quality hydrogen. International Journal of Hydrogen Energy, 2013, 38, 16286-16299.	3.8	28
169	Optimization of an atmospheric air volumetric central receiver system: Impact of solar multiple, storage capacity and control strategy. Renewable Energy, 2014, 63, 392-401.	4.3	28
170	Description and Test of a New Multilayer Thin Film Vapor Deposition Apparatus for Organic Semiconductor Materials. Journal of Chemical & Engineering Data, 2015, 60, 3776-3791.	1.0	28
171	Intensification of photocatalytic pollutant abatement in microchannel reactor using TiO₂ and TiO₂â€graphene. AIChE Journal, 2016, 62, 2794-2802.	1.8	28
172	On the Deposition of Lead Halide Perovskite Precursors by Physical Vapor Method. Journal of Physical Chemistry C, 2017, 121, 2080-2087.	1.5	28
173	Large-area photoelectrochemical water splitting using a multi-photoelectrode approach. Journal of Power Sources, 2018, 398, 224-232.	4.0	28
174	Furanoate-Based Nanocomposites: A Case Study Using Poly(Butylene 2,5-Furanoate) and Poly(Butylene) Tj ETQq0 0 0 rgBT /Overlock 10	2.0	28
175	Low-temperature methanol steam reforming kinetics over a novel CuZrDyAl catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2015, 115, 321-339.	0.8	27
176	Biomass and central receiver system (CRS) hybridization: Integration of syngas/biogas on the atmospheric air volumetric CRS heat recovery steam generator duct burner. Renewable Energy, 2015, 75, 665-674.	4.3	27
177	TiO2/reduced graphene oxide composites for photocatalytic degradation in aqueous and gaseous medium. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 348, 326-336.	2.0	27
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