

Adlio M M Mendes

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418
papers

12,021
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52
h-index

87
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444
ext. papers

13,859
ext. citations

6.8
avg, IF

6.83
L-index

#	Paper	IF	Citations
418	Catalysts for methanol steam reforming—A review. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 43-57	21.8	573
417	Dye-sensitized solar cells: A safe bet for the future.. <i>Energy and Environmental Science</i> , 2008 , 1, 655	35.4	350
416	Methanol steam reforming for hydrogen generation via conventional and membrane reactors: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 355-368	16.2	289
415	N-doped carbon quantum dots/TiO ₂ composite with improved photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2016 , 193, 67-74	21.8	218
414	Effect of incorporation of graphene oxide and graphene nanoplatelets on mechanical and gas permeability properties of poly(lactic acid) films. <i>Polymer International</i> , 2013 , 62, 33-40	3.3	214
413	Characterization of photoelectrochemical cells for water splitting by electrochemical impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11601-11608	6.7	211
412	Optical band gaps of organic semiconductor materials. <i>Optical Materials</i> , 2016 , 58, 51-60	3.3	169
411	An overview of photocatalysis phenomena applied to NO _x abatement. <i>Journal of Environmental Management</i> , 2013 , 129, 522-39	7.9	163
410	The water-gas shift reaction: from conventional catalytic systems to Pd-based membrane reactors—A review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010 , 5, 111-137	1.3	151
409	Hematite photoelectrodes for water splitting: evaluation of the role of film thickness by impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16515-23	3.6	142
408	Extremely stable bare hematite photoanode for solar water splitting. <i>Nano Energy</i> , 2016 , 23, 70-79	17.1	141
407	Solubility of carbon dioxide in aqueous solutions of amino acid salts. <i>Chemical Engineering Science</i> , 2009 , 64, 1993-2002	4.4	141
406	A key review of building integrated photovoltaic (BIPV) systems 2017 , 20, 833-858		136
405	Characterization of potassium glycinate for carbon dioxide absorption purposes. <i>Chemical Engineering Science</i> , 2007 , 62, 6534-6547	4.4	134
404	Transparent Cuprous Oxide Photocathode Enabling a Stacked Tandem Cell for Unbiased Water Splitting. <i>Advanced Energy Materials</i> , 2015 , 5, 1501537	21.8	123
403	Proton electrolyte membrane properties and direct methanol fuel cell performance. <i>Journal of Power Sources</i> , 2005 , 140, 34-40	8.9	120
402	Biocompatibility of poly(lactic acid) with incorporated graphene-based materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 104, 229-38	6	112

401	Segmented polymer electrolyte membrane fuel cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 169-185	16.2	108
400	Review on nanostructured photoelectrodes for next generation dye-sensitized solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 334-349	16.2	106
399	On the stability enhancement of cuprous oxide water splitting photocathodes by low temperature steam annealing. <i>Energy and Environmental Science</i> , 2014 , 7, 4044-4052	35.4	106
398	Enhancing the production of hydrogen via water-gas shift reaction using Pd-based membrane reactors. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12596-12608	6.7	104
397	Reduced graphene oxide films as transparent counter-electrodes for dye-sensitized solar cells. <i>Solar Energy</i> , 2012 , 86, 716-724	6.8	101
396	Photoelectrochemical water splitting using WO ₃ photoanodes: the substrate and temperature roles. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5232-43	3.6	94
395	Direct CO ₂ hydrogenation to methane or methanol from post-combustion exhaust streams: A thermodynamic study. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 22, 1-8	4.6	89
394	Dealcoholizing wine by membrane separation processes. <i>Innovative Food Science and Emerging Technologies</i> , 2011 , 12, 330-337	6.8	88
393	CuO/ZnO catalysts for methanol steam reforming: The role of the support polarity ratio and surface area. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 67-76	21.8	83
392	Carbon molecular sieve membranes: Sorption, kinetic and structural characterization. <i>Journal of Membrane Science</i> , 2004 , 241, 275-287	9.6	83
391	Performance and efficiency of a DMFC using non-fluorinated composite membranes operating at low/medium temperatures. <i>Journal of Power Sources</i> , 2005 , 145, 485-494	8.9	83
390	Direct Solar Charging of an Organic-Inorganic, Stable, and Aqueous Alkaline Redox Flow Battery with a Hematite Photoanode. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7142-7	16.4	81
389	Tin oxide as stable protective layer for composite cuprous oxide water-splitting photocathodes. <i>Nano Energy</i> , 2016 , 24, 10-16	17.1	74
388	Perovskite solar cells: Materials, configurations and stability. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 2471-2489	16.2	73
387	Characterization and application of composite membranes in DMFC. <i>Catalysis Today</i> , 2005 , 104, 205-212	5.3	73
386	Scavengers for achieving zero formaldehyde emission of wood-based panels. <i>Wood Science and Technology</i> , 2013 , 47, 1261-1272	2.5	72
385	Preparation and characterization of bacterial cellulose membranes with tailored surface and barrier properties. <i>Cellulose</i> , 2010 , 17, 1203-1211	5.5	72
384	Recent advances in membrane technologies for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7313-7338	6.7	72

383	Treatment of azo dye-containing wastewater by a Fenton-like process in a continuous packed-bed reactor filled with activated carbon. <i>Journal of Hazardous Materials</i> , 2012 , 237-238, 30-7	12.8	70
382	Hematite-based photoelectrode for solar water splitting with very high photovoltage. <i>Nano Energy</i> , 2017 , 38, 218-231	17.1	69
381	Characterization of TiO ₂ -based semiconductors for photocatalysis by electrochemical impedance spectroscopy. <i>Applied Surface Science</i> , 2016 , 387, 183-189	6.7	65
380	An innovative photoelectrochemical lab device for solar water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 399-410	6.4	65
379	Hydrogen production by methanol steam reforming in a membrane reactor: Palladium vs carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , 2009 , 339, 160-170	9.6	64
378	Composite phenolic resin-based carbon molecular sieve membranes for gas separation. <i>Carbon</i> , 2011 , 49, 4348-4358	10.4	64
377	Concentrated solar power for renewable electricity and hydrogen production from water – review. <i>Energy and Environmental Science</i> , 2010 , 3, 1398	35.4	62
376	High-Purity Oxygen Production by Pressure Swing Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 591-599	3.9	61
375	Proton electrolyte membrane properties and direct methanol fuel cell performance: II. Fuel cell performance and membrane properties effects. <i>Journal of Power Sources</i> , 2005 , 140, 41-49	8.9	60
374	Experimental and modeling studies on the low-temperature water-gas shift reaction in a dense Pd/Ag packed-bed membrane reactor. <i>Chemical Engineering Science</i> , 2011 , 66, 2356-2367	4.4	58
373	Activation procedures characterization of MEA based on phosphoric acid doped PBI membranes. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11649-11660	6.7	57
372	Highly active photocatalytic paint for NO _x abatement under real-outdoor conditions. <i>Applied Catalysis A: General</i> , 2014 , 484, 17-25	5.1	56
371	Innovative ZrO ₂ -supported CuPd catalysts for the selective production of hydrogen from methanol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 400-407	21.8	56
370	Water adsorption on carbon molecular sieve membranes: Experimental data and isotherm model. <i>Carbon</i> , 2005 , 43, 2769-2779	10.4	56
369	Non-alcoholic beer – a new industrial process. <i>Separation and Purification Technology</i> , 2011 , 79, 342-351	8.3	54
368	Zirconium oxide hybrid membranes for direct methanol fuel cells – Evaluation of transport properties. <i>Journal of Membrane Science</i> , 2006 , 284, 137-144	9.6	54
367	Dipeptide crystals as excellent permselective materials: sequential exclusion of argon, nitrogen, and oxygen. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3034-6	16.4	53
366	Study and optimization of aroma recovery from beer by pervaporation. <i>Journal of Membrane Science</i> , 2009 , 341, 51-59	9.6	52

365	Preparation and characterization of carbon molecular sieve membranes based on resorcinol-formaldehyde resin. <i>Journal of Membrane Science</i> , 2014 , 459, 207-216	9.6	51
364	A sorptive reactor for CO ₂ capture and conversion to renewable methane. <i>Chemical Engineering Journal</i> , 2017 , 322, 590-602	14.7	50
363	Unbiased solar energy storage: Photoelectrochemical redox flow battery. <i>Nano Energy</i> , 2016 , 22, 396-405	7.1	50
362	Alternative to latent catalysts for curing UF resins used in the production of low formaldehyde emission wood-based panels. <i>International Journal of Adhesion and Adhesives</i> , 2012 , 33, 56-60	3.4	50
361	High temperature CO ₂ sorption with gallium-substituted and promoted hydrotalcites. <i>Separation and Purification Technology</i> , 2014 , 127, 202-211	8.3	49
360	Effect of CO and CO ₂ on H ₂ permeation through finger-like PdAg membranes. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 12680-12687	6.7	49
359	Demonstration of a 50 cm ² BiVO ₄ tandem photoelectrochemical-photovoltaic water splitting device. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2366-2379	5.8	48
358	Laser assisted glass frit sealing of dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 43-49	6.4	48
357	Effective Adsorption Equilibrium Isotherms and Breakthroughs of Water Vapor and Carbon Dioxide on Different Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10201-10210	3.9	48
356	Simultaneous distillation-extraction of high-value volatile compounds from <i>Cistus ladanifer</i> L. <i>Analytica Chimica Acta</i> , 2007 , 584, 439-46	6.6	48
355	Aging study of carbon molecular sieve membranes. <i>Journal of Membrane Science</i> , 2008 , 310, 494-502	9.6	48
354	Alcohol Removal From Beer by Reverse Osmosis. <i>Separation Science and Technology</i> , 2007 , 42, 3011-3023	7.5	48
353	Cyclic adsorption separation processes: analysis strategy and optimization procedure. <i>Chemical Engineering Science</i> , 2003 , 58, 3143-3158	4.4	48
352	Temperature Impact on Perovskite Solar Cells Under Operation. <i>ChemSusChem</i> , 2019 , 12, 2186-2194	8.3	46
351	Peptide-based solids: porosity and zeolitic behavior. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1709-1723		46
350	Phenomenological modeling of dye-sensitized solar cells under transient conditions. <i>Solar Energy</i> , 2011 , 85, 781-793	6.8	46
349	Mass transport of direct methanol fuel cell species in sulfonated poly(ether ether ketone) membranes. <i>Electrochimica Acta</i> , 2006 , 51, 3699-3706	6.7	46
348	Removal of acetone, ethyl acetate and ethanol vapors from air using a hollow fiber PDMS membrane module. <i>Journal of Membrane Science</i> , 2002 , 197, 211-222	9.6	46

347	Carbon molecular sieve membranes from cellophane paper. <i>Journal of Membrane Science</i> , 2010 , 350, 180-188	9.6	45
346	Carbon dioxide absorption kinetics in potassium threonate. <i>Chemical Engineering Science</i> , 2008 , 63, 3493-3503	4.5	45
345	Steam reforming of methanol over a CuO/ZnO/Al ₂ O ₃ catalyst, part I: Kinetic modelling. <i>Chemical Engineering Science</i> , 2011 , 66, 4913-4921	4.4	44
344	Hysteresis in the cyclic adsorption of acetone, ethanol and ethyl acetate on activated carbon. <i>Carbon</i> , 2000 , 38, 1083-1088	10.4	44
343	Recent Developments in the Optimization of the Bulk Heterojunction Morphology of Polymer: Fullerene Solar Cells. <i>Materials</i> , 2018 , 11,	3.5	44
342	Influence of sodium cations of N3 dye on the photovoltaic performance and stability of dye-sensitized solar cells. <i>ChemPhysChem</i> , 2009 , 10, 1117-24	3.2	43
341	Comparison of Nanosized Gold-Based and Copper-Based Catalysts for the Low-Temperature Water-Gas Shift Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 430-439	3.9	43
340	Oxygen separation from air by PSA: modelling and experimental results: Part I: isothermal operation. <i>Separation and Purification Technology</i> , 2001 , 24, 173-188	8.3	43
339	Sustainability and economic evaluation of microalgae grown in brewery wastewater. <i>Bioresource Technology</i> , 2014 , 168, 151-8	11	42
338	Simulation of separation processes using finite volume method. <i>Computers and Chemical Engineering</i> , 2005 , 30, 83-98	4	42
337	Separation of an Anionic Surfactant by Nanofiltration. <i>Environmental Science & Technology</i> , 1999 , 33, 2758-2764	10.3	42
336	Composite-alumina-carbon molecular sieve membranes prepared from novolac resin and boehmite. Part II: Effect of the carbonization temperature on the gas permeation properties. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3485-3496	6.7	41
335	Ultrasensitive low temperature steam reforming of methanol over PdZn/ZnO catalysts: Influence of induced support defects on catalytic performance. <i>Applied Catalysis B: Environmental</i> , 2014 , 154-155, 316-328	21.8	41
334	The influence of CO on the current density distribution of high temperature polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2011 , 56, 9467-9475	6.7	41
333	On the determination of diffusivity and sorption coefficients using different time-lag models. <i>Journal of Membrane Science</i> , 2003 , 221, 123-133	9.6	41
332	CuO/ZnO/Ga ₂ O ₃ catalyst for low temperature MSR reaction: Synthesis, characterization and kinetic model. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 371-379	21.8	40
331	Effect of the preparation method on the catalytic activity and stability of Au/Fe ₂ O ₃ catalysts in the low-temperature water-gas shift reaction. <i>Applied Catalysis A: General</i> , 2014 , 470, 45-55	5.1	40
330	Impact of using cool paints on energy demand and thermal comfort of a residential building. <i>Applied Thermal Engineering</i> , 2014 , 65, 273-281	5.8	40

329	The role of the Ti surface roughness in the self-ordering of TiO ₂ nanotubes: a detailed study of the growth mechanism. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9067-9078	13	40
328	Are TiO ₂ -based exterior paints useful catalysts for gas-phase photooxidation processes? A case study on n-decane abatement for air detoxification. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 988-999	21.8	39
327	Steam reforming of methanol over a CuO/ZnO/Al ₂ O ₃ catalyst part II: A carbon membrane reactor. <i>Chemical Engineering Science</i> , 2011 , 66, 5523-5530	4.4	39
326	Photo-oxidation of NO using an exterior paint--screening of various commercial titania in powder pressed and paint films. <i>Journal of Environmental Management</i> , 2011 , 92, 1724-32	7.9	39
325	On the optimization of cyclic adsorption separation processes. <i>AIChE Journal</i> , 2005 , 51, 1377-1395	3.6	39
324	Removal of industrial cutting oil from oil emulsions by polymeric ultra- and microfiltration membranes. <i>Environmental Science & Technology</i> , 2004 , 38, 4878-83	10.3	38
323	Decoupled Photoelectrochemical Water Splitting System for Centralized Hydrogen Production. <i>Joule</i> , 2020 , 4, 448-471	27.8	37
322	Heat integration of methanol steam reformer with a high-temperature polymeric electrolyte membrane fuel cell. <i>Energy</i> , 2017 , 120, 468-477	7.9	36
321	Modelling of a high-temperature polymer electrolyte membrane fuel cell integrated with a methanol steam reformer cell. <i>Applied Energy</i> , 2017 , 202, 6-19	10.7	36
320	Enhancing the low temperature water-gas shift reaction through a hybrid sorption-enhanced membrane reactor for high-purity hydrogen production. <i>Fuel</i> , 2015 , 159, 854-863	7.1	36
319	Optimized photoelectrochemical tandem cell for solar water splitting. <i>Energy Storage Materials</i> , 2018 , 13, 175-188	19.4	36
318	Intrinsic kinetics of CO ₂ methanation over an industrial nickel-based catalyst. <i>Journal of CO₂ Utilization</i> , 2018 , 25, 128-136	7.6	36
317	Temperature effect on water splitting using a Si-doped hematite photoanode. <i>Journal of Power Sources</i> , 2014 , 272, 567-580	8.9	36
316	Composite-alumina-carbon molecular sieve membranes prepared from novolac resin and boehmite. Part I: Preparation, characterization and gas permeation studies. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5653-5663	6.7	35
315	Impedance characterization of dye-sensitized solar cells in a tandem arrangement for hydrogen production by water splitting. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8876-8883	6.7	35
314	Preparation and evaluation of the barrier properties of cellophane membranes modified with fatty acids. <i>Carbohydrate Polymers</i> , 2011 , 83, 836-842	10.3	34
313	Comparative study between a CMS membrane and a CMS adsorbent: Part I Morphology, adsorption equilibrium and kinetics. <i>Journal of Membrane Science</i> , 2010 , 346, 15-25	9.6	34
312	Influence of photocatalytic paint components on the photoactivity of P25 towards NO abatement. <i>Catalysis Today</i> , 2010 , 151, 77-83	5.3	34

311	Photocatalytic membrane reactor performance towards oxytetracycline removal from synthetic and real matrices: Suspended vs immobilized TiO ₂ -P25. <i>Chemical Engineering Journal</i> , 2019 , 378, 122-147	14.7	33
310	Transient phenomenological modeling of photoelectrochemical cells for water splitting □ Application to undoped hematite electrodes. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 175-188	6.7	33
309	Preliminary feasibility study for the use of an adsorption/bio-regeneration system for molinate removal from effluents. <i>Water Research</i> , 2004 , 38, 2677-84	12.5	33
308	High temperature PEM fuel cell integrated with a cellular membrane methanol steam reformer: Experimental and modelling. <i>Applied Energy</i> , 2018 , 215, 659-669	10.7	32
307	Beer dealcoholization by reverse osmosis. <i>Desalination</i> , 2006 , 200, 397-399	10.3	32
306	Application of Au/TiO ₂ catalysts in the low-temperature water-gas shift reaction. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4670-4681	6.7	31
305	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. <i>Dyes and Pigments</i> , 2017 , 136, 46-53	4.6	31
304	Carbon-Al ₂ O ₃ -Ag composite molecular sieve membranes for gas separation. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 2338-2345	5.5	31
303	Advanced hermetic encapsulation of perovskite solar cells: the route to commercialization. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2654-2662	13	31
302	Three-dimensional modeling of PEMFC with contaminated anode fuel. <i>Energy</i> , 2018 , 152, 939-959	7.9	30
301	XPS analysis of ZnO:Ga films deposited by magnetron sputtering: Substrate bias effect. <i>Applied Surface Science</i> , 2018 , 458, 1043-1049	6.7	30
300	Boehmite-phenolic resin carbon molecular sieve membranes Permeation and adsorption studies. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 2668-2680	5.5	30
299	Effect of fuel utilization on the carbon monoxide poisoning dynamics of Polymer Electrolyte Membrane Fuel Cells. <i>Journal of Power Sources</i> , 2014 , 258, 122-128	8.9	30
298	Solar Redox Flow Batteries with Organic Redox Couples in Aqueous Electrolytes: A Minireview. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25729-25740	3.8	30
297	Chain Length Dependence of the Thermodynamic Properties of n-Alkanes and their Monosubstituted Derivatives. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1-20	2.8	29
296	An optimization based on simulation approach to the patient admission scheduling problem using a linear programming algorithm. <i>Journal of Biomedical Informatics</i> , 2014 , 52, 427-37	10.2	29
295	Evaluation of urea-formaldehyde adhesives performance by recently developed mechanical tests. <i>International Journal of Adhesion and Adhesives</i> , 2011 , 31, 127-134	3.4	29
294	Methanol crossover reduction by Nafion modification with palladium composite nanoparticles: Application to direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11561-11567	6.7	29

293	Contamination of Zeolites Used in Oxygen Production by PSA: Effects of Water and Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 6197-6203	3.9	29
292	Using wavelets for solving PDEs: an adaptive collocation method. <i>Chemical Engineering Science</i> , 2001 , 56, 3305-3309	4.4	29
291	Unbiased, complete solar charging of a neutral flow battery by a single Si photocathode.. <i>RSC Advances</i> , 2018 , 8, 6331-6340	3.7	28
290	Two-Stage Vacuum Pressure Swing Adsorption Using AgLiLSX Zeolite for Producing 99.5+% Oxygen From Air. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 722-736	3.9	28
289	Transparent graphene-based counter-electrodes for iodide/triiodide mediated dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2028	13	28
288	Effect of natural and synthetic antioxidants incorporation on the gas permeation properties of poly(lactic acid) films. <i>Journal of Food Engineering</i> , 2013 , 116, 562-571	6	28
287	Insights into UV-TiO ₂ photocatalytic degradation of PCE for air decontamination systems. <i>Chemical Engineering Journal</i> , 2012 , 204-206, 244-257	14.7	28
286	Generalized linear driving force approximation for adsorption of multicomponent mixtures. <i>Chemical Engineering Science</i> , 2006 , 61, 3519-3531	4.4	28
285	Adaptive multiresolution approach for solution of hyperbolic PDEs. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002 , 191, 3909-3928	5.7	28
284	PSA purification of waste hydrogen from ammonia plants to fuel cell grade. <i>Separation and Purification Technology</i> , 2020 , 240, 116334	8.3	28
283	Synergetic integration of a methanol steam reforming cell with a high temperature polymer electrolyte fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13902-13912	6.7	27
282	A sustainability assessment of advanced materials for novel housing solutions. <i>Building and Environment</i> , 2015 , 92, 182-191	6.5	27
281	Photocatalytic oxidation of gaseous perchloroethylene over TiO ₂ based paint. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 311, 41-52	4.7	27
280	Towards an efficient and durable self-cleaning acrylic paint containing mesoporous TiO ₂ microspheres. <i>Progress in Organic Coatings</i> , 2018 , 118, 48-56	4.8	27
279	Role of temperature in the recombination reaction on dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 22699-710	3.6	26
278	Surface effects and CO/CO ₂ influence in the H ₂ permeation through a Pd/Ag membrane: A comprehensive model. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6566-6572	6.7	26
277	Comparison of passive cooling techniques in improving thermal comfort of occupants of a pre-fabricated building. <i>Energy and Buildings</i> , 2016 , 120, 30-44	7	26
276	Oxidation of microcystin-LR and cylindrospermopsin by heterogeneous photocatalysis using a tubular photoreactor packed with different TiO ₂ coated supports. <i>Chemical Engineering Journal</i> , 2015 , 266, 100-111	14.7	26

275	Recovery of acetone, ethyl acetate and ethanol by thermal pressure swing adsorption. <i>Chemical Engineering Science</i> , 2003 , 58, 5279-5289	4.4	26
274	Modeling a catalytic polymeric non-porous membrane reactor. <i>Journal of Membrane Science</i> , 2001 , 181, 241-252	9.6	25
273	Biomass and central receiver system (CRS) hybridization: Volumetric air CRS and integration of a biomass waste direct burning boiler on steam cycle. <i>Solar Energy</i> , 2012 , 86, 2912-2922	6.8	24
272	Determination of the Low-Temperature Water-Gas Shift Reaction Kinetics Using a Cu-Based Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11269-11279	3.9	24
271	Validation of the load-resilient ion cyclotron resonance frequency antenna concept on Tore Supra plasmas. <i>Nuclear Fusion</i> , 2008 , 48, 065007	3.3	24
270	COx free hydrogen production through water-gas shift reaction in different hybrid multifunctional reactors. <i>Chemical Engineering Journal</i> , 2019 , 356, 727-736	14.7	24
269	Comparison of UF synthesis by alkaline-acid and strongly acid processes. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 1764-1772	2.9	23
268	Development of a methodology to optimize the air bleed in PEMFC systems operating with low quality hydrogen. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16286-16299	6.7	23
267	Use of single wall carbon nanohorns in polymeric electrolyte fuel cells. <i>Journal of Materials Science</i> , 2011 , 46, 7198-7205	4.3	23
266	LABVIRTUAL: a virtual platform to teach chemical processes. <i>Education for Chemical Engineers</i> , 2009 , 4, e9-e19	2.4	23
265	Integrated analysis of a membrane-based process for hydrogen production from ethanol steam reforming. <i>Catalysis Today</i> , 2010 , 156, 107-117	5.3	23
264	Novel carbon molecular sieve honeycomb membrane module: configuration and membrane characterization. <i>Carbon</i> , 2005 , 43, 809-819	10.4	23
263	Intensification of photocatalytic pollutant abatement in microchannel reactor using TiO ₂ and TiO ₂ -graphene. <i>AIChE Journal</i> , 2016 , 62, 2794-2802	3.6	23
262	H ₂ production with low carbon content via MSR in packed bed membrane reactors for high-temperature polymeric electrolyte membrane fuel cell. <i>Applied Energy</i> , 2017 , 188, 409-419	10.7	22
261	Integrated design of hematite and dye-sensitized solar cell for unbiased solar charging of an organic-inorganic redox flow battery. <i>Nano Energy</i> , 2019 , 62, 832-843	17.1	22
260	Optimization of an atmospheric air volumetric central receiver system: Impact of solar multiple, storage capacity and control strategy. <i>Renewable Energy</i> , 2014 , 63, 392-401	8.1	22
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