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	Self-discharge mitigation in a liquid metal displacement battery. Journal of Energy Chemistry, 2022, 66, 390-396.	7.1	6
2	Stable cellulose-based carbon molecular sieve membranes with very high selectivities. Journal of Membrane Science, 2022, 641, 119852.	4.1	19
3	Shunt currents in vanadium redox flow batteries â€“ a parametric and optimization study. Electrochimica Acta, 2022, 403, 139667.	2.6	11
4	A comprehensive review of NOx and N2O mitigation from industrial streams. Renewable and Sustainable Energy Reviews, 2022, 155, 111916.	8.2	24
5	Embedded current collectors for efficient large area perovskite solar cells. International Journal of Energy Research, 2022, 46, 5288-5295.	2.2	3
6	Flow-Through Design for Enhanced Redox Flow Battery Performance. Journal of the Electrochemical Society, 2022, 169, 020532.	1.3	2
7	A 25Âcm² Solar Redox Flow Cell: Facing the Engineering Challenges of Upscaling (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	10.2	0
8	Overview of Membrane Science and Technology in Portugal. Membranes, 2022, 12, 197.	1.4	2
9	Tailoring the anion stoichiometry and oxidation kinetics of vanadium (oxy)nitride by the control of ammonolysis conditions. Journal of Materials Chemistry C, 2022, 10, 5608-5620.	2.7	9
10	Selection of the ultimate perovskite solar cell materials and fabrication processes towards its industrialization: A review. Energy Science and Engineering, 2022, 10, 1478-1525.	1.9	9
11	PEDOT-graphene counter-electrode for solar and improved artificial light conversion in regular, bifacial and FTO-less cobalt mediated DSSCs. Electrochimica Acta, 2022, 412, 140140.	2.6	7
12	Recent Advances in Green-Solvent-Processable Organic Photovoltaics. Nanoenergy Advances, 2022, 2, 1-28.	3.6	8
13	A 25Âcm² Solar Redox Flow Cell: Facing the Engineering Challenges of Upscaling. Advanced Energy Materials, 2022, 12, .	10.2	7
14	Push-Pull Heterocyclic Dyes Based on Pyrrole and Thiophene: Synthesis and Evaluation of Their Optical, Redox and Photovoltaic Properties. Coatings, 2022, 12, 34.	1.2	6
15	Binary copper-bismuth catalysts for the electrochemical reduction of CO2: Study on surface properties and catalytic activity. Chemical Engineering Journal, 2022, 445, 136575.	6.6	19
16	Stable Cobalt-Mediated Monolithic Dye-Sensitized Solar Cells by Full Glass Encapsulation. ACS Applied Energy Materials, 2022, 5, 7220-7229.	2.5	11
17	Carbon neutral methanol from pulp mills towards full energy decarbonization: an inside perspective and critical review. Green Chemistry, 2022, 24, 5403-5428.	4.6	6
18	The renaissance of monolithic dye-sensitized solar cells. Materials Today Communications, 2022, 32, 104030.	0.9	8

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19	Graphitic carbon nitride/few-layer graphene heterostructures for enhanced visible-LED photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2022, 47, 25555-25570.	3.8	9
20	Production of hydrogen from methanol steam reforming using CuPd/ZrO2 catalysts â€“ Influence of the catalytic surface on methanol conversion and CO selectivity. International Journal of Hydrogen Energy, 2021, 46, 17490-17499.	3.8	20
21	Sustainable production of value-added chemicals and fuels by using a citric acid-modified carbon nitride optical semiconductor. Applied Catalysis A: General, 2021, 609, 117912.	2.2	10
22	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
23	Reversed-phase chromatographic separation and downstream precipitation of lupane- and oleanane-type triterpenoids: Experiments and modeling based on the method of moments. Separation and Purification Technology, 2021, 260, 118208.	3.9	1
24	Phenomenological Understanding of Hematite Photoanode Performance. Journal of Physical Chemistry C, 2021, 125, 8274-8284.	1.5	5
25	Progress in Upscaling Organic Photovoltaic Devices. Advanced Energy Materials, 2021, 11, 2100342.	10.2	63
26	Review of the Techniques to Measure the Hermeticity of Glass Frit Encapsulated Solar Cells. U Porto Journal of Engineering, 2021, 7, 80-92.	0.2	0
27	Passivation of the TiO₂ Surface and Promotion of N719 Dye Anchoring with Poly(4-vinylpyridine) for Efficient and Stable Dye-Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2021, 9, 5981-5990.	3.2	14
28	Efficient Liquid-Junction Monolithic Cobalt-Mediated Dye-Sensitized Solar Cells for Solar and Artificial Light Conversion. ACS Applied Energy Materials, 2021, 4, 5050-5058.	2.5	10
29	A new tilted strips external thermal insulation composite system (TiS-ETICS): Description and performance assessment through thermal and energy simulation for a residential building. Journal of Building Engineering, 2021, 38, 101953.	1.6	2
30	Propane selective carbon adsorbents from phenolic resin precursor. Microporous and Mesoporous Materials, 2021, 320, 111071.	2.2	11
31	Bioelectrochemical energy storage in a Microbial Redox Flow Cell. Journal of Energy Storage, 2021, 39, 102610.	3.9	2
32	The role of Ga and Bi doping on the local structure of transparent zinc oxide thin films. Journal of Alloys and Compounds, 2021, 870, 159489.	2.8	6
33	On the path to aqueous organic redox flow batteries: Alizarin red S alkaline negolyte. Performance evaluation and photochemical studies. Journal of Molecular Liquids, 2021, 336, 116364.	2.3	6
34	In-situ crossover diagnostics to assess membrane efficacy for non-aqueous redox flow battery. Journal of Energy Storage, 2021, 40, 102713.	3.9	12
35	Redox Flow Batteries: Materials, Design and Prospects. Energies, 2021, 14, 5643.	1.6	29
36	The first approach to dynamic modeling of a solar vanadium redox flow cell. Nano Energy, 2021, 89, 106372.	8.2	6

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37	Redox flow batteries: a new frontier on energy storage. Sustainable Energy and Fuels, 2021, 5, 5366-5419.	2.5	39
38	Nanoparticles Coated Electrodes for Vanadium-Based Non-Aqueous Redox Flow Battery. ECS Meeting Abstracts, 2021, MA2021-02, 1924-1924.	0.0	0
39	Novel Aluminum-Ion Based Non-Aqueous Redox Flow Battery. ECS Meeting Abstracts, 2021, MA2021-02, 1925-1925.	0.0	0
40	Step Toward Eco-Friendly Green Source of Non-Aqueous Electrolytes for Redox Flow Battery. ECS Meeting Abstracts, 2021, MA2021-02, 1974-1974.	0.0	0
41	Graded Morphologies and the Performance of PffBT4T-2OD:PC71BM Devices Using Additive Choice. Nanomaterials, 2021, 11, 3367.	1.9	1
42	Microbially-charged electrochemical fuel for energy storage in a redox flow cell. Journal of Power Sources, 2020, 445, 227307.	4.0	8
43	Recent advances in membrane technologies for hydrogen purification. International Journal of Hydrogen Energy, 2020, 45, 7313-7338.	3.8	202
44	High performing CMS adsorbent for O2 / N2 separation. Microporous and Mesoporous Materials, 2020, 296, 109989.	2.2	20
45	Impact of 1,8-diiodooctane on the morphology of organic photovoltaic (OPV) devices â€“ A Small Angle Neutron Scattering (SANS) study. Polymer Testing, 2020, 82, 106305.	2.3	4
46	Decoupled Photoelectrochemical Water Splitting System for Centralized Hydrogen Production. Joule, 2020, 4, 448-471.	11.7	91
47	Advanced hermetic encapsulation of perovskite solar cells: the route to commercialization. Journal of Materials Chemistry A, 2020, 8, 2654-2662.	5.2	54
48	Chromatographic separation of betulinic and oleanolic acids. Separation and Purification Technology, 2020, 235, 116129.	3.9	7
49	PSA purification of waste hydrogen from ammonia plants to fuel cell grade. Separation and Purification Technology, 2020, 240, 116334.	3.9	57
50	Influence of the ZrO2 Crystalline Phases on the Nature of Active Sites in PdCu/ZrO2 Catalysts for the Methanol Steam Reforming Reactionâ€”An In Situ Spectroscopic Study. Catalysts, 2020, 10, 1005.	1.6	10
51	Enhancement of the electrochemical reduction of CO2 to methanol and suppression of H2 evolution over CuO nanowires. Electrochimica Acta, 2020, 363, 137207.	2.6	25
52	Cellulose-Based Carbon Molecular Sieve Membranes for Gas Separation: A Review. Molecules, 2020, 25, 3532.	1.7	34
53	Novel laser-assisted glass frit encapsulation for long-lifetime perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 20037-20046.	5.2	26
54	2D-dynamic phenomenological modelling of vanadium redox flow batteries â€“ Analysis of the mass transport related overpotentials. Journal of Power Sources, 2020, 480, 229142.	4.0	25

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55	Thermochromic Paints on External Surfaces: Impact Assessment for a Residential Building through Thermal and Energy Simulation. Energies, 2020, 13, 1912.	1.6	18
56	Life cycle assessment of a renewable energy generation system with a vanadium redox flow battery in a NZEB household. Energy Reports, 2020, 6, 87-94.	2.5	19
57	Project and Implementation of an Educational Large-Scale Water Distillation Unit with a Closed-Circuit Condenser. Sustainability, 2020, 12, 3239.	1.6	1
58	Underscoring the transport properties of yttrium-doped barium cerate in nominally dry oxidising conditions. Electrochimica Acta, 2020, 334, 135625.	2.6	13
59	The impact of phenylâ€“phenyl linkage on the thermodynamic, optical and morphological behavior of carbazol derivatives. RSC Advances, 2020, 10, 11766-11776.	1.7	5
60	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
61	Torrefaction as a Pretreatment Technology for Chlorine Elimination from Biomass: A Case Study Using Eucalyptus globulus Labill. Resources, 2020, 9, 54.	1.6	23
62	Thiophene- and Carbazole-Substituted N-Methyl-Fulleropyrrolidine Acceptors in PffBT4T-2OD Based Solar Cells. Materials, 2020, 13, 1267.	1.3	6
63	Total Solar Reflectance Optimization of the External Paint Coat in Residential Buildings Located in Mediterranean Climates. Energies, 2020, 13, 2729.	1.6	7
64	Morphology, Structure, and Dynamics of Pentacene Thin Films and Their Nanocomposites with [C 2 C 1 im][NTf 2] and [C 2 C 1 im][OTF] Ionic Liquids. ChemPhysChem, 2020, 21, 1814-1825.	1.0	7
65	Tailoring the Anodic Hafnium Oxide Morphology Using Different Organic Solvent Electrolytes. Nanomaterials, 2020, 10, 382.	1.9	6
66	The role of Pt loading on reduced graphene oxide support in the polyol synthesis of catalysts for oxygen reduction reaction. International Journal of Hydrogen Energy, 2020, 45, 20594-20604.	3.8	11
67	Solar water splitting under natural concentrated sunlight using a 200Âcm2 photoelectrochemical-photovoltaic device. Journal of Power Sources, 2020, 454, 227890.	4.0	35
68	Different agglomeration properties of PC₆₁BM and PC₇₁BM in photovoltaic inks â€“ a spin-echo SANS study. RSC Advances, 2020, 10, 4512-4520.	1.7	12
69	Highly propylene equilibrium selective carbon molecular sieve adsorbent. Separation and Purification Technology, 2020, 245, 116853.	3.9	7
70	Enhanced separation of bioactive triterpenic acids with a triacontylsilyl silica gel adsorbent: From impulse and breakthrough experiments to the design of a simulated moving bed unit. Separation and Purification Technology, 2020, 248, 116991.	3.9	7
71	Photoelectrochemical Water Splitting: Thermal Annealing Challenges on Hematite Nanowires. Journal of Physical Chemistry C, 2020, 124, 12897-12911.	1.5	24
72	Impact of Varying Bipolar Plates Having Flow-Fields on the Performance of Redox Flow Battery at High Current Density. ECS Meeting Abstracts, 2020, MA2020-02, 303-303.	0.0	0

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73	Proton conductivity in yttrium-doped barium cerate under nominally dry reducing conditions for application in chemical synthesis. Journal of Materials Chemistry A, 2019, 7, 18135-18142.	5.2	25
74	Dye-Sensitized Solar Cells for Efficient Solar and Artificial Light Conversion. ACS Sustainable Chemistry and Engineering, 2019, 7, 13464-13470.	3.2	33
75	Novel carbonâ€based material for perovskite solar cells backâ€contact. International Journal of Energy Research, 2019, 43, 7541.	2.2	7
76	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
77	Demonstration of a 50 cm² BiVO₄ tandem photoelectrochemical-photovoltaic water splitting device. Sustainable Energy and Fuels, 2019, 3, 2366-2379.	2.5	84
78	Double-walled iron oxide nanotubes via selective chemical etching and Kirkendall process. Scientific Reports, 2019, 9, 11994.	1.6	13
79	A Systematic Performance History Analysis of a Chlor-Alkali Membrane Electrolyser under Industrial Operating Conditions. Applied Sciences (Switzerland), 2019, 9, 284.	1.3	9
80	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
81	Synthesis of Hostâ€Guest Hematite Photoelectrodes for Solar Water Splitting. ChemNanoMat, 2019, 5, 911-920.	1.5	2
82	Efficient monolithic dye sensitized solar cells with eco-friendly silica-titania spacer layers. Solar Energy, 2019, 183, 419-424.	2.9	9
83	Temperature Impact on Perovskite Solar Cells Under Operation. ChemSusChem, 2019, 12, 2186-2194.	3.6	75
84	Carbon Membranes with Extremely High Separation Factors and Stability. Energy Technology, 2019, 7, 1801089.	1.8	18
85	Dynamic Structure and Subsurface Oxygen Formation of a Working Copper Catalyst under Methanol Steam Reforming Conditions: An in Situ Time-Resolved Spectroscopic Study. ACS Catalysis, 2019, 9, 2922-2930.	5.5	17
86	Impact of the architecture of dye sensitized solar cell-powered electrochromic devices on their photovoltaic performance and the ability to color change. Solar Energy, 2019, 182, 22-28.	2.9	12
87	PffBT4T-2OD Based Solar Cells with Aryl-Substituted N-Methyl-Fulleropyrrolidine Acceptors. Materials, 2019, 12, 4100.	1.3	2
88	In-Situ Measurement of Vanadium Crossover for the Vanadium Redox Flow Battery. Journal of the Electrochemical Society, 2019, 166, A4067-A4072.	1.3	12
89	COx free hydrogen production through water-gas shift reaction in different hybrid multifunctional reactors. Chemical Engineering Journal, 2019, 356, 727-736.	6.6	34
90	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

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91	Development of hermetic glass frit encapsulation for perovskite solar cells. Journal Physics D: Applied Physics, 2019, 52, 074005.	1.3	29
92	Compositional analysis by RBS, XPS and EDX of ZnO:Al,Bi and ZnO:Ga,Bi thin films deposited by d.c. magnetron sputtering. Vacuum, 2019, 161, 268-275.	1.6	26
93	Multilayered WO₃ Nanoplatelets for Efficient Photoelectrochemical Water Splitting: The Role of the Annealing Ramp. ACS Applied Energy Materials, 2019, 2, 1040-1050.	2.5	21
94	Incident Angle and Light Intensity Variation: a Comparative Impact Study on Perovskite, Dye-sensitized and Silicon Heterojunction Solar Cells Towards Building-Integrated Applications. Solar Energy Materials and Solar Cells, 2019, 191, 451-458.	3.0	13
95	Hydrogen Production from Photoelectrochemical Water Splitting. , 2019, , 1003-1053.		5
96	Unbiased, complete solar charging of a neutral flow battery by a single Si photocathode. RSC Advances, 2018, 8, 6331-6340.	1.7	38
97	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
98	Effect on the electrical and morphological properties of Bi incorporation into ZnO:Ga and ZnO:Al thin films deposited by confocal magnetron sputtering. Vacuum, 2018, 152, 252-260.	1.6	13
99	Three-dimensional modeling of PEMFC with contaminated anode fuel. Energy, 2018, 152, 939-959.	4.5	43
100	Highly active screen-printed Ir Ti4O7 anodes for proton exchange membrane electrolyzers. International Journal of Hydrogen Energy, 2018, 43, 16824-16833.	3.8	9
101	Insights into all-vanadium redox flow battery: A case study on components and operational conditions. Electrochimica Acta, 2018, 267, 80-93.	2.6	26
102	Optimized photoelectrochemical tandem cell for solar water splitting. Energy Storage Materials, 2018, 13, 175-188.	9.5	54
103	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
104	Styryl and phenylethynyl based coumarin chromophores for dye sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 564-569.	2.0	22
105	Benzothiadiazole derivatives functionalized with two different (hetero)aromatic donor groups: Synthesis and evaluation as TiO 2 sensitizers for DSSCs. Dyes and Pigments, 2018, 151, 89-94.	2.0	16
106	Single-Stage Pressure Swing Adsorption for Producing Fuel Cell Grade Hydrogen. Industrial & Engineering Chemistry Research, 2018, 57, 5106-5118.	1.8	42
107	Intrinsic kinetics of CO2 methanation over an industrial nickel-based catalyst. Journal of CO2 Utilization, 2018, 25, 128-136.	3.3	59
108	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

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109	Design and optimization of a simulated moving bed unit for the separation of betulinic, oleanolic and ursolic acids mixtures: Experimental and modeling studies. Separation and Purification Technology, 2018, 192, 401-411.	3.9	19
110	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
111	Nucleation and growth of microdroplets of ionic liquids deposited by physical vapor method onto different surfaces. Applied Surface Science, 2018, 428, 242-249.	3.1	25
112	Perovskite solar cells: Materials, configurations and stability. Renewable and Sustainable Energy Reviews, 2018, 82, 2471-2489.	8.2	109
113	Lifecycle Cost Analysis of Prefabricated Composite and Masonry Buildings: Comparative Study. Journal of Architectural Engineering, 2018, 24, .	0.8	21
114	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
115	An Overview of the Portuguese Energy Sector and Perspectives for Power-to-Gas Implementation. Energies, 2018, 11, 3259.	1.6	17
116	Recent Developments in the Optimization of the Bulk Heterojunction Morphology of Polymer: Fullerene Solar Cells. Materials, 2018, 11, 2560.	1.3	63
117	Embedded Chromium Current Collectors for Efficient and Stable Large Area Dye Sensitized Solar Cells. Journal of the Electrochemical Society, 2018, 165, H1040-H1046.	1.3	6
118	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
119	Combined in-depth X-ray Photoelectron Spectroscopy and Time-of-Flight Secondary Ion Mass Spectroscopy study of the effect of deposition pressure and substrate bias on the electrical properties and composition of Ga-doped ZnO thin films grown by magnetron sputtering. Thin Solid Films, 2018, 665, 184-192.	0.8	2
120	Pushâ€“Pull N,N-Diphenylhydrazones Bearing Bithiophene or Thienothiophene Spacers as Nonlinear Optical Second Harmonic Generators and as Photosensitizers for Nanocrystalline TiO₂ Dye-Sensitized Solar Cells. ACS Omega, 2018, 3, 12893-12904.	1.6	25
121	Facilitated Transport Membranes for CO2/H2 Separation. , 2018, , 359-384.		1
122	Polyol synthesis of reduced graphene oxide supported platinum electrocatalysts for fuel cells: Effect of Pt precursor, support oxidation level and pH. International Journal of Hydrogen Energy, 2018, 43, 16998-17011.	3.8	16
123	Enhanced methylene blue photodegradation with propylene carbonate as a solvent. Applied Surface Science, 2018, 458, 597-602.	3.1	5
124	Large-area photoelectrochemical water splitting using a multi-photoelectrode approach. Journal of Power Sources, 2018, 398, 224-232.	4.0	28
125	Furanoate-Based Nanocomposites: A Case Study Using Poly(Butylene 2,5-Furanoate) and Poly(Butylene) Tj ETQq1 1 0.784314 rgBT /O	2.0	28
126	Model of a Formaldehyde Absorption System Based on Industrial Data. Computer Aided Chemical Engineering, 2018, , 25-30.	0.3	1

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127	XPS analysis of ZnO:Ga films deposited by magnetron sputtering: Substrate bias effect. Applied Surface Science, 2018, 458, 1043-1049.	3.1	42
128	Optimization of the NO photooxidation and the role of relative humidity. Environmental Pollution, 2018, 240, 541-548.	3.7	4
129	High purity and crystalline thin films of methylammonium lead iodide perovskites by a vapor deposition approach. Thin Solid Films, 2018, 664, 12-18.	0.8	16
130	Insights in Perovskite Solar Cell Fabrication: Unraveling the Hidden Challenges of Each Layer. IEEE Journal of Photovoltaics, 2018, 8, 1029-1038.	1.5	5
131	Thin film deposition of organic hole transporting materials: optical, thermodynamic and morphological properties of naphthyl-substituted benzidines. Journal of Materials Science, 2018, 53, 12974-12987.	1.7	9
132	Hydrogen Production from Photoelectrochemical Water Splitting. , 2018, , 1-52.		6
133	On the Deposition of Lead Halide Perovskite Precursors by Physical Vapor Method. Journal of Physical Chemistry C, 2017, 121, 2080-2087.	1.5	28
134	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
135	A sorptive reactor for CO 2 capture and conversion to renewable methane. Chemical Engineering Journal, 2017, 322, 590-602.	6.6	82
136	Low temperature hermetic laser-assisted glass frit encapsulation of soda-lime glass substrates. Optics and Lasers in Engineering, 2017, 96, 107-116.	2.0	24
137	A key review of building integrated photovoltaic (BIPV) systems. Engineering Science and Technology, an International Journal, 2017, 20, 833-858.	2.0	207
138	Heat integration of methanol steam reformer with a high-temperature polymeric electrolyte membrane fuel cell. Energy, 2017, 120, 468-477.	4.5	46
139	Synthesis and characterization of push-pull bithiophene and thieno[3,2-b]thiophene derivatives bearing an ethyne linker as sensitizers for dye-sensitized solar cells. Organic Electronics, 2017, 49, 194-205.	1.4	24
140	TiO₂-coated window for facilitated gas evolution in PEC solar water splitting. RSC Advances, 2017, 7, 29665-29671.	1.7	12
141	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
142	Hematite-based photoelectrode for solar water splitting with very high photovoltage. Nano Energy, 2017, 38, 218-231.	8.2	83
143	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
144	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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145	Spectral sensitization of TiO 2 with electrodeposited PbSe: improvement of photocurrent stability and light conversion efficiency. Electrochimica Acta, 2017, 249, 369-376.	2.6	7
146	Numerical study on injection parameters optimization of thin wall and biodegradable polymers parts. AIP Conference Proceedings, 2017, , .	0.3	1
147	Highly efficient SiO 2 /TiO 2 composite photoelectrodes for dye-sensitized solar cells. Solar Energy, 2017, 158, 905-916.	2.9	11
148	Development of stable current collectors for large area dye-sensitized solar cells. Applied Surface Science, 2017, 423, 549-556.	3.1	8
149	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
150	Pre-fabricated, environmentally friendly and energy self-sufficient single-family house in Kenya. Journal of Cleaner Production, 2017, 142, 2100-2113.	4.6	10
151	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
152	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
153	Model of an Industrial Reactor for Formaldehyde Production with Catalyst Deactivation. Computer Aided Chemical Engineering, 2017, 40, 121-126.	0.3	2
154	Preparation and Characterization of an Eco-Friendly Polymer Electrolyte Membrane (PEM) Based in a Blend of Sulphonated Poly(Vinyl Alcohol)/ Chitosan Mechanically Stabilised by Nylon 6,6. Materials Research, 2016, 19, 954-962.	0.6	17
155	Morphology of Imidazoliumâ€Based Ionic Liquids as Deposited by Vapor Deposition: Microâ€/Nanodroplets and Thin Films. ChemPhysChem, 2016, 17, 2123-2127.	1.0	18
156	Intensification of photocatalytic pollutant abatement in microchannel reactor using TiO₂ and TiO₂â€graphene. AICHE Journal, 2016, 62, 2794-2802.	1.8	28
157	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
158	Electrochemical cell design for the impedance studies of chlorine evolution at DSAÂ® anodes. Review of Scientific Instruments, 2016, 87, 085113.	0.6	5
159	Optical band gaps of organic semiconductor materials. Optical Materials, 2016, 58, 51-60.	1.7	268
160	Tin oxide as stable protective layer for composite cuprous oxide water-splitting photocathodes. Nano Energy, 2016, 24, 10-16.	8.2	84
161	N-doped carbon quantum dots/TiO2 composite with improved photocatalytic activity. Applied Catalysis B: Environmental, 2016, 193, 67-74.	10.8	291
162	Microencapsulation of citronella oil for solar-activated controlled release as an insect repellent. Applied Materials Today, 2016, 5, 90-97.	2.3	21

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163	Photoelectrochromic devices: Influence of device architecture and electrolyte composition. Electrochimica Acta, 2016, 219, 99-106.	2.6	19
164	Fluorination effect on the thermodynamic properties of long-chain hydrocarbons and alcohols. Journal of Chemical Thermodynamics, 2016, 102, 378-385.	1.0	12
165	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
166	Laser assisted glass frit sealing for production large area DSCs panels. Solar Energy, 2016, 135, 674-681.	2.9	20
167	Kinetic derivation of common isotherm equations for surface and micropore adsorption. Adsorption, 2016, 22, 963-971.	1.4	21
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