

Adlio M M Mendes

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

418
papers

12,021
citations

52
h-index

87
g-index

444
ext. papers

13,859
ext. citations

6.8
avg, IF

6.83
L-index

#	Paper	IF	Citations
4 ¹⁸	Flow-Through Design for Enhanced Redox Flow Battery Performance. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 020532	3.9	0
4 ¹⁷	A 25 μ m ² Solar Redox Flow Cell: Facing the Engineering Challenges of Upscaling (Adv. Energy Mater. 5/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270018	21.8	
4 ¹⁶	Self-discharge mitigation in a liquid metal displacement battery. <i>Journal of Energy Chemistry</i> , 2022 , 66, 390-396	12	1
4 ¹⁵	Stable cellulose-based carbon molecular sieve membranes with very high selectivities. <i>Journal of Membrane Science</i> , 2022 , 641, 119852	9.6	1
4 ¹⁴	Tailoring the anion stoichiometry and oxidation kinetics of vanadium (oxy)nitride by the control of ammonolysis conditions. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5608-5620	7.1	1
4 ¹³	PEDOT-graphene counter-electrode for solar and improved artificial light conversion in regular, bifacial and FTO-less cobalt mediated DSSCs. <i>Electrochimica Acta</i> , 2022 , 412, 140140	6.7	0
4 ¹²	Recent Advances in Green-Solvent-Processable Organic Photovoltaics. <i>Nanoenergy Advances</i> , 2022 , 2, 1-28		1
4 ¹¹	A 25 μ m ² Solar Redox Flow Cell: Facing the Engineering Challenges of Upscaling. <i>Advanced Energy Materials</i> , 2022 , 12, 2102893	21.8	1
4 ¹⁰	Push-Pull Heterocyclic Dyes Based on Pyrrole and Thiophene: Synthesis and Evaluation of Their Optical, Redox and Photovoltaic Properties. <i>Coatings</i> , 2022 , 12, 34	2.9	1
4 ⁰⁹	Binary copper-bismuth catalysts for the electrochemical reduction of CO ₂ : Study on surface properties and catalytic activity. <i>Chemical Engineering Journal</i> , 2022 , 445, 136575	14.7	3
4 ⁰⁸	Shunt currents in vanadium redox flow batteries – a parametric and optimization study. <i>Electrochimica Acta</i> , 2021 , 139667	6.7	4
4 ⁰⁷	A comprehensive review of NO _x and N ₂ O mitigation from industrial streams. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 155, 111916	16.2	0
4 ⁰⁶	Redox flow batteries: a new frontier on energy storage. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 5366-5419; 8	5.8	1
4 ⁰⁵	Phenomenological Understanding of Hematite Photoanode Performance. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8274-8284	3.8	1
4 ⁰⁴	Progress in Upscaling Organic Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2021 , 11, 2100342	21.8	22
4 ⁰³	Passivation of the TiO ₂ Surface and Promotion of N719 Dye Anchoring with Poly(4-vinylpyridine) for Efficient and Stable Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5981-5990	8.3	1
4 ⁰²	Efficient Liquid-Junction Monolithic Cobalt-Mediated Dye-Sensitized Solar Cells for Solar and Artificial Light Conversion. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5050-5058	6.1	2

401	A new tilted strips external thermal insulation composite system (TiS-ETICS): Description and performance assessment through thermal and energy simulation for a residential building. <i>Journal of Building Engineering</i> , 2021 , 38, 101953	5.2	
400	Propane selective carbon adsorbents from phenolic resin precursor. <i>Microporous and Mesoporous Materials</i> , 2021 , 320, 111071	5.3	1
399	Bioelectrochemical energy storage in a Microbial Redox Flow Cell. <i>Journal of Energy Storage</i> , 2021 , 39, 102610	7.8	1
398	Production of hydrogen from methanol steam reforming using CuPd/ZrO ₂ catalysts [Influence of the catalytic surface on methanol conversion and CO selectivity. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 17490-17499	6.7	8
397	Sustainable production of value-added chemicals and fuels by using a citric acid-modified carbon nitride optical semiconductor. <i>Applied Catalysis A: General</i> , 2021 , 609, 117912	5.1	1
396	A passive direct methanol fuel cell as transducer of an electrochemical sensor, applied to the detection of carcinoembryonic antigen. <i>Biosensors and Bioelectronics</i> , 2021 , 175, 112877	11.8	21
395	Reversed-phase chromatographic separation and downstream precipitation of lupane- and oleanane-type triterpenoids: Experiments and modeling based on the method of moments. <i>Separation and Purification Technology</i> , 2021 , 260, 118208	8.3	0
394	The role of Ga and Bi doping on the local structure of transparent zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159489	5.7	1
393	On the path to aqueous organic redox flow batteries: Alizarin red S alkaline negolyte. Performance evaluation and photochemical studies. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116364	6	2
392	In-situ crossover diagnostics to assess membrane efficacy for non-aqueous redox flow battery. <i>Journal of Energy Storage</i> , 2021 , 40, 102713	7.8	2
391	Redox Flow Batteries: Materials, Design and Prospects. <i>Energies</i> , 2021 , 14, 5643	3.1	5
390	The first approach to dynamic modeling of a solar vanadium redox flow cell. <i>Nano Energy</i> , 2021 , 89, 106372	7.1	2
389	2D-dynamic phenomenological modelling of vanadium redox flow batteries [Analysis of the mass transport related overpotentials. <i>Journal of Power Sources</i> , 2020 , 480, 229142	8.9	9
388	Thermochromic Paints on External Surfaces: Impact Assessment for a Residential Building through Thermal and Energy Simulation. <i>Energies</i> , 2020 , 13, 1912	3.1	9
387	Life cycle assessment of a renewable energy generation system with a vanadium redox flow battery in a NZEB household. <i>Energy Reports</i> , 2020 , 6, 87-94	4.6	8
386	Project and Implementation of an Educational Large-Scale Water Distillation Unit with a Closed-Circuit Condenser. <i>Sustainability</i> , 2020 , 12, 3239	3.6	1
385	Underscoring the transport properties of yttrium-doped barium cerate in nominally dry oxidising conditions. <i>Electrochimica Acta</i> , 2020 , 334, 135625	6.7	3
384	The impact of phenyl-phenyl linkage on the thermodynamic, optical and morphological behavior of carbazol derivatives.. <i>RSC Advances</i> , 2020 , 10, 11766-11776	3.7	4

383	The influence of the support composition on the physicochemical and catalytic properties of Cu catalysts supported on Zirconia-Alumina for methanol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119243	21.8	21
382	Torrefaction as a Pretreatment Technology for Chlorine Elimination from Biomass: A Case Study Using Eucalyptus globulus Labill. <i>Resources</i> , 2020 , 9, 54	3.7	14
381	Thiophene- and Carbazole-Substituted -Methyl-Fulleropyrrolidine Acceptors in PffBT4T-2OD Based Solar Cells. <i>Materials</i> , 2020 , 13,	3.5	4
380	Total Solar Reflectance Optimization of the External Paint Coat in Residential Buildings Located in Mediterranean Climates. <i>Energies</i> , 2020 , 13, 2729	3.1	3
379	Morphology, Structure, and Dynamics of Pentacene Thin Films and Their Nanocomposites with [C C im][NTF] and [C C im][OTF] Ionic Liquids. <i>ChemPhysChem</i> , 2020 , 21, 1814-1825	3.2	3
378	Tailoring the Anodic Hafnium Oxide Morphology Using Different Organic Solvent Electrolytes. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
377	The role of Pt loading on reduced graphene oxide support in the polyol synthesis of catalysts for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 20594-20604	6.7	2
376	Solar water splitting under natural concentrated sunlight using a 200 μ m ² photoelectrochemical-photovoltaic device. <i>Journal of Power Sources</i> , 2020 , 454, 227890	8.9	14
375	Different agglomeration properties of PCBM and PCBM in photovoltaic inks - a spin-echo SANS study.. <i>RSC Advances</i> , 2020 , 10, 4512-4520	3.7	4
374	Highly propylene equilibrium selective carbon molecular sieve adsorbent. <i>Separation and Purification Technology</i> , 2020 , 245, 116853	8.3	4
373	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. <i>Separation and Purification Technology</i> , 2020 , 248, 116991	8.3	5
372	Photoelectrochemical Water Splitting: Thermal Annealing Challenges on Hematite Nanowires. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12897-12911	3.8	12
371	High performing CMS adsorbent for O ₂ / N ₂ separation. <i>Microporous and Mesoporous Materials</i> , 2020 , 296, 109989	5.3	6
370	Impact of 1,8-diiodooctane on the morphology of organic photovoltaic (OPV) devices [A Small Angle Neutron Scattering (SANS) study. <i>Polymer Testing</i> , 2020 , 82, 106305	4.5	3
369	Decoupled Photoelectrochemical Water Splitting System for Centralized Hydrogen Production. <i>Joule</i> , 2020 , 4, 448-471	27.8	37
368	Advanced hermetic encapsulation of perovskite solar cells: the route to commercialization. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2654-2662	13	31
367	Chromatographic separation of betulinic and oleanolic acids. <i>Separation and Purification Technology</i> , 2020 , 235, 116129	8.3	3
366	PSA purification of waste hydrogen from ammonia plants to fuel cell grade. <i>Separation and Purification Technology</i> , 2020 , 240, 116334	8.3	28

365	Influence of the ZrO ₂ Crystalline Phases on the Nature of Active Sites in PdCu/ZrO ₂ Catalysts for the Methanol Steam Reforming Reaction: An In Situ Spectroscopic Study. <i>Catalysts</i> , 2020 , 10, 1005	4	4
364	Enhancement of the electrochemical reduction of CO ₂ to methanol and suppression of H ₂ evolution over CuO nanowires. <i>Electrochimica Acta</i> , 2020 , 363, 137207	6.7	9
363	Cellulose-Based Carbon Molecular Sieve Membranes for Gas Separation: A Review. <i>Molecules</i> , 2020 , 25,	4.8	12
362	Novel laser-assisted glass frit encapsulation for long-lifetime perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20037-20046	13	10
361	Microbially-charged electrochemical fuel for energy storage in a redox flow cell. <i>Journal of Power Sources</i> , 2020 , 445, 227307	8.9	4
360	Recent advances in membrane technologies for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7313-7338	6.7	72
359	Double-walled iron oxide nanotubes via selective chemical etching and Kirkendall process. <i>Scientific Reports</i> , 2019 , 9, 11994	4.9	10
358	A Systematic Performance History Analysis of a Chlor-Alkali Membrane Electrolyser under Industrial Operating Conditions. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 284	2.6	5
357	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
356	Synthesis of Host-Guest Hematite Photoelectrodes for Solar Water Splitting. <i>ChemNanoMat</i> , 2019 , 5, 911-920	3.5	2
355	Efficient monolithic dye sensitized solar cells with eco-friendly silica-titania spacer layers. <i>Solar Energy</i> , 2019 , 183, 419-424	6.8	4
354	Temperature Impact on Perovskite Solar Cells Under Operation. <i>ChemSusChem</i> , 2019 , 12, 2186-2194	8.3	46
353	Carbon Membranes with Extremely High Separation Factors and Stability. <i>Energy Technology</i> , 2019 , 7, 1801089	3.5	6
352	Proton conductivity in yttrium-doped barium cerate under nominally dry reducing conditions for application in chemical synthesis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18135-18142	13	12
351	Dye-Sensitized Solar Cells for Efficient Solar and Artificial Light Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13464-13470	8.3	15
350	Novel carbon-based material for perovskite solar cells back-contact. <i>International Journal of Energy Research</i> , 2019 , 43, 7541	4.5	6
349	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, 122114	14.7	33
348	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

347	Microbially Charged Redox Flow Batteries for Bioenergy Storage 2019 , 251-269		1
346	Hydrogen Production from Photoelectrochemical Water Splitting 2019 , 1003-1053		4
345	Dynamic Structure and Subsurface Oxygen Formation of a Working Copper Catalyst under Methanol Steam Reforming Conditions: An in Situ Time-Resolved Spectroscopic Study. <i>ACS Catalysis</i> , 2019 , 9, 2922-2930	13.1	9
344	Impact of the architecture of dye sensitized solar cell-powered electrochromic devices on their photovoltaic performance and the ability to color change. <i>Solar Energy</i> , 2019 , 182, 22-28	6.8	8
343	PfFBT4T-2OD Based Solar Cells with Aryl-Substituted -Methyl-Fulleropyrrolidine Acceptors. <i>Materials</i> , 2019 , 12,	3.5	1
342	In-Situ Measurement of Vanadium Crossover for the Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A4067-A4072	3.9	8
341	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
340	Preparation of carbon molecular sieve membranes from an optimized ionic liquid-regenerated cellulose precursor. <i>Journal of Membrane Science</i> , 2019 , 572, 390-400	9.6	21
339	Development of hermetic glass frit encapsulation for perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 074005	3	21
338	Compositional analysis by RBS, XPS and EDX of ZnO:Al,Bi and ZnO:Ga,Bi thin films deposited by d.c. magnetron sputtering. <i>Vacuum</i> , 2019 , 161, 268-275	3.7	10
337	Multilayered WO ₃ Nanoplatelets for Efficient Photoelectrochemical Water Splitting: The Role of the Annealing Ramp. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1040-1050	6.1	16
336	Incident Angle and Light Intensity Variation: a Comparative Impact Study on Perovskite, Dye-sensitized and Silicon Heterojunction Solar Cells Towards Building-Integrated Applications. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 191, 451-458	6.4	8
335	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
334	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
333	Effect on the electrical and morphological properties of Bi incorporation into ZnO:Ga and ZnO:Al thin films deposited by confocal magnetron sputtering. <i>Vacuum</i> , 2018 , 152, 252-260	3.7	10
332	Three-dimensional modeling of PEMFC with contaminated anode fuel. <i>Energy</i> , 2018 , 152, 939-959	7.9	30
331	Highly active screen-printed IrTi ₄ O ₇ anodes for proton exchange membrane electrolyzers. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16824-16833	6.7	9
330	Insights into all-vanadium redox flow battery: A case study on components and operational conditions. <i>Electrochimica Acta</i> , 2018 , 267, 80-93	6.7	20

329	Optimized photoelectrochemical tandem cell for solar water splitting. <i>Energy Storage Materials</i> , 2018 , 13, 175-188	19.4	36
328	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
327	Styryl and phenylethynyl based coumarin chromophores for dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 353, 564-569	4.7	13
326	Benzothiadiazole derivatives functionalized with two different (hetero)aromatic donor groups: Synthesis and evaluation as TiO ₂ sensitizers for DSSCs. <i>Dyes and Pigments</i> , 2018 , 151, 89-94	4.6	14
325	Single-Stage Pressure Swing Adsorption for Producing Fuel Cell Grade Hydrogen. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5106-5118	3.9	15
324	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
323	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
322	Design and optimization of a simulated moving bed unit for the separation of betulinic, oleanolic and ursolic acids mixtures: Experimental and modeling studies. <i>Separation and Purification Technology</i> , 2018 , 192, 401-411	8.3	14
321	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
320	Nucleation and growth of microdroplets of ionic liquids deposited by physical vapor method onto different surfaces. <i>Applied Surface Science</i> , 2018 , 428, 242-249	6.7	17
319	Perovskite solar cells: Materials, configurations and stability. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 2471-2489	16.2	73
318	Polyol synthesis of reduced graphene oxide supported platinum electrocatalysts for fuel cells: Effect of Pt precursor, support oxidation level and pH. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16998-17011	6.7	10
317	Enhanced methylene blue photodegradation with propylene carbonate as a solvent. <i>Applied Surface Science</i> , 2018 , 458, 597-602	6.7	4
316	Large-area photoelectrochemical water splitting using a multi-photoelectrode approach. <i>Journal of Power Sources</i> , 2018 , 398, 224-232	8.9	17
315	Furanoate-Based Nanocomposites: A Case Study Using Poly(Butylene 2,5-Furanoate) and Poly(Butylene 2,5-Furanoate)--(Butylene Diglycolate) and Bacterial Cellulose. <i>Polymers</i> , 2018 , 10,	4.5	13
314	Model of a Formaldehyde Absorption System Based on Industrial Data. <i>Computer Aided Chemical Engineering</i> , 2018 , 25-30	0.6	1
313	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
312	Optimization of the NO photooxidation and the role of relative humidity. <i>Environmental Pollution</i> , 2018 , 240, 541-548	9.3	3

311	High purity and crystalline thin films of methylammonium lead iodide perovskites by a vapor deposition approach. <i>Thin Solid Films</i> , 2018 , 664, 12-18	2.2	8
310	Insights in Perovskite Solar Cell Fabrication: Unraveling the Hidden Challenges of Each Layer. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1029-1038	3.7	5
309	Thin film deposition of organic hole transporting materials: optical, thermodynamic and morphological properties of naphthyl-substituted benzidines. <i>Journal of Materials Science</i> , 2018 , 53, 12974-12987	4.3	7
308	Lifecycle Cost Analysis of Prefabricated Composite and Masonry Buildings: Comparative Study. <i>Journal of Architectural Engineering</i> , 2018 , 24, 05017012	1.5	8
307	Simulation and experimental results of a PSA process for production of hydrogen used in fuel cells. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 338-355	6.8	17
306	An Overview of the Portuguese Energy Sector and Perspectives for Power-to-Gas Implementation. <i>Energies</i> , 2018 , 11, 3259	3.1	14
305	Recent Developments in the Optimization of the Bulk Heterojunction Morphology of Polymer: Fullerene Solar Cells. <i>Materials</i> , 2018 , 11,	3.5	44
304	Embedded Chromium Current Collectors for Efficient and Stable Large Area Dye Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H1040-H1046	3.9	3
303	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
302	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. <i>Thin Solid Films</i> , 2018 , 665, 184-189	2.2	2
301	Push-Pull π -Diphenylhydrazones Bearing Bithiophene or Thienothiophene Spacers as Nonlinear Optical Second Harmonic Generators and as Photosensitizers for Nanocrystalline TiO ₂ Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2018 , 3, 12893-12904	3.9	15
300	Facilitated Transport Membranes for CO ₂ /H ₂ Separation 2018 , 359-384		1
299	On the Deposition of Lead Halide Perovskite Precursors by Physical Vapor Method. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2080-2087	3.8	21
298	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
297	A sorptive reactor for CO ₂ capture and conversion to renewable methane. <i>Chemical Engineering Journal</i> , 2017 , 322, 590-602	14.7	50
296	Low temperature hermetic laser-assisted glass frit encapsulation of soda-lime glass substrates. <i>Optics and Lasers in Engineering</i> , 2017 , 96, 107-116	4.6	14
295	A key review of building integrated photovoltaic (BIPV) systems 2017 , 20, 833-858		136
294	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

293	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. <i>Organic Electronics</i> , 2017 , 49, 194-205	3.5	18
292	TiO ₂ -coated window for facilitated gas evolution in PEC solar water splitting. <i>RSC Advances</i> , 2017 , 7, 29665-29671	3.7	7
291	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
290	Hematite-based photoelectrode for solar water splitting with very high photovoltage. <i>Nano Energy</i> , 2017 , 38, 218-231	17.1	69
289	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
288	TiO ₂ /reduced graphene oxide composites for photocatalytic degradation in aqueous and gaseous medium. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 348, 326-336	4.7	22
287	Spectral sensitization of TiO ₂ with electrodeposited PbSe: improvement of photocurrent stability and light conversion efficiency. <i>Electrochimica Acta</i> , 2017 , 249, 369-376	6.7	6
286	Highly efficient SiO ₂ /TiO ₂ composite photoelectrodes for dye-sensitized solar cells. <i>Solar Energy</i> , 2017 , 158, 905-916	6.8	9
285	Development of stable current collectors for large area dye-sensitized solar cells. <i>Applied Surface Science</i> , 2017 , 423, 549-556	6.7	5
284	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
283	Pre-fabricated, environmentally friendly and energy self-sufficient single-family house in Kenya. <i>Journal of Cleaner Production</i> , 2017 , 142, 2100-2113	10.3	8
282	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
281	Optical and Photovoltaic Properties of Thieno[3,2-b]thiophene-Based Push-Pull Organic Dyes with Different Anchoring Groups for Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2017 , 2, 9268-9279	3.9	21
280	Model of an Industrial Reactor for Formaldehyde Production with Catalyst Deactivation. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 121-126	0.6	2
279	Laser assisted glass frit sealing for production large area DSCs panels. <i>Solar Energy</i> , 2016 , 135, 674-681	6.8	15
278	Kinetic derivation of common isotherm equations for surface and micropore adsorption. <i>Adsorption</i> , 2016 , 22, 963-971	2.6	9
277	Direct Solar Charging of an Organic-Inorganic, Stable, and Aqueous Alkaline Redox Flow Battery with a Hematite Photoanode. <i>Angewandte Chemie</i> , 2016 , 128, 7258-7263	3.6	7
276	Laser sealed dye-sensitized solar cells: Efficiency and long term stability. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 134-138	6.4	21

275	Characterization of TiO ₂ -based semiconductors for photocatalysis by electrochemical impedance spectroscopy. <i>Applied Surface Science</i> , 2016 , 387, 183-189	6.7	65
274	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
273	The endocannabinoid 2-arachidonoylglycerol dysregulates the synthesis of proteins by the human syncytiotrophoblast. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016 , 1861, 205-12	5.2	11
272	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
271	Extremely stable bare hematite photoanode for solar water splitting. <i>Nano Energy</i> , 2016 , 23, 70-79	17.1	141
270	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
269	A surface thermodynamics approach to modelling single-file adsorption in ultramicroporous materials. <i>Microporous and Mesoporous Materials</i> , 2016 , 225, 543-551	5.3	1
268	Unbiased solar energy storage: Photoelectrochemical redox flow battery. <i>Nano Energy</i> , 2016 , 22, 396-405	7.1	50
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