Alfonso Vidal

List of Publications by Year
in descending order

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33 papers	2,076 citations	393982 19 h-index	476904 29 g-index
34 all docs	34 docs citations	34 times ranked	2201 citing authors

#	Article	IF	Citations
1	An ageing protocol for testing high temperature solar materials for thermochemical applications. Solar Energy Materials and Solar Cells, 2020, 212, 110572.	3.0	2
2	A 100 kW cavity-receiver reactor with an integrated two-step thermochemical cycle: Thermal performance under solar transients. Renewable Energy, 2020, 153, 270-279.	4.3	12
3	Lessons learnt during the construction and start-up of 3 cylindrical cavity-receivers facility integrated in a 750 kW solar tower plant for hydrogen production. AIP Conference Proceedings, 2020, , .	0.3	2
4	Multi-Tubular Reactor for Hydrogen Production: CFD Thermal Design and Experimental Testing. Processes, 2019, 7, 31.	1.3	11
5	Phosphorus-Doped Graphene as a Metal-Free Material for Thermochemical Water Reforming at Unusually Mild Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 838-846.	3.2	28
6	Experimental testing of multi-tubular reactor for hydrogen production and comparison with a thermal CFD model. AIP Conference Proceedings, 2018, , .	0.3	2
7	Heliostat aiming strategy of 3 cylindrical cavity-receivers integrated in a 750 kW solar tower hydrogen plant. AIP Conference Proceedings, 2018, , .	0.3	0
8	HYDROSOL-PLANT: Structured redox reactors for H2 production from solar thermochemical H2O splitting. AIP Conference Proceedings, 2018, , .	0.3	8
9	Thermal tests of a multi-tubular reactor for hydrogen production by using mixed ferrites thermochemical cycle. AIP Conference Proceedings, 2017, , .	0.3	7
10	A control based on a knapsack problem for solar hydrogen production. Optimal Control Applications and Methods, 2016, 37, 496-507.	1.3	9
11	A Combinatorial Optimization Problem to Control a Solar Reactor. Energy Procedia, 2014, 49, 2037-2046.	1.8	0
12	Hydrogen production by two-step thermochemical cycles based on commercial nickel ferrite: Kinetic and structural study. International Journal of Hydrogen Energy, 2014, 39, 6819-6826.	3.8	35
13	Modelling Thermo-chemical Hydrogen Generation in a Solar Plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1260-1264.	0.4	0
14	Response to the comments on â€œMetallic and carbonaceous-based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon productionâ€•by A. Rollinson. International Journal of Hydrogen Energy, 2012, 37, 14716-14717.	3.8	2
15	Metallic and carbonaceous â€"based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon production. International Journal of Hydrogen Energy, 2012, 37, 9645-9655.	3.8	34
16	Novel integration options of concentrating solar thermal technology with fossil-fuelled and CO2 capture processes. Energy Procedia, 2011, 4, 809-816.	1.8	43
17	Test operation of a 100kW pilot plant for solar hydrogen production from water on a solar tower. Solar Energy, 2011, 85, 634-644.	2.9	138
18	Solar hydrogen production by two-step thermochemical cycles: Evaluation of the activity of commercial ferrites. International Journal of Hydrogen Energy, 2009, 34, 2918-2924.	3.8	107

#	Article	IF	Citations
19	Hydrogen production by steam-gasification of petroleum coke using concentrated solar powerâ€"III. Reactor experimentation with slurry feeding. International Journal of Hydrogen Energy, 2007, 32, 992-996.	3.8	93
20	Hydrogen Production by Steam-Gasification of Petroleum Coke Using Concentrated Solar Power: Reactor Experimentation With Slurry Feeding. , 2006, , 23.		2
21	Applied studies in solar photocatalytic detoxification: an overview. Solar Energy, 2003, 75, 329-336.	2.9	233
22	New large solar photocatalytic plant: set-up and preliminary results. Chemosphere, 2002, 47, 235-240.	4.2	49
23	Photocatalysis with solar energy at a pilot-plant scale: an overview. Applied Catalysis B: Environmental, 2002, 37, 1-15.	10.8	648
24	Inactivation of titanium dioxide by sulphur: photocatalytic degradation of VapamÂ®. Applied Catalysis B: Environmental, 2001, 32, 1-9.	10.8	36
25	High-Performance, Low-Cost Solar Collectors for Disinfection of Contaminated Water. Water Environment Research, 2000, 72, 271-276.	1.3	24
26	The use of CPC collectors for detoxification of contaminated water: Design, construction and preliminary results. Solar Energy, 2000, 68, 109-120.	2.9	67
27	Application of a CPC-based photocatalytic reactor to detoxification of washing waters from agricultural industries. European Physical Journal Special Topics, 1999, 09, Pr3-283-Pr3-288.	0.2	1
28	SOLAR PHOTOCATALYTIC DEGRADATION OF WATER AND AIR POLLUTANTS: CHALLENGES AND PERSPECTIVES. Solar Energy, 1999, 66, 169-182.	2.9	128
29	Solar photocatalysis for detoxification and disinfection of contaminated water: pilot plant studies. Catalysis Today, 1999, 54, 283-290.	2.2	79
30	Compound parabolic concentrator technology development to commercial solar detoxification applications. Solar Energy, 1999, 67, 317-330.	2.9	122
31	Photocatalytic degradation of thiocarbamate herbicide active ingredients in water. Applied Catalysis B: Environmental, 1999, 21, 259-267.	10.8	63
32	Developments in solar photocatalysis for water purification. Chemosphere, 1998, 36, 2593-2606.	4.2	59
33	Heterogeneous photocatalysis: degradation of ethylbenzene in TiO2 aqueous suspensions. Journal of Photochemistry and Photobiology A: Chemistry, 1994, 79, 213-219.	2.0	30