

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	Photocatalysis with solar energy at a pilot-plant scale: an overview. <i>Applied Catalysis B: Environmental</i> , 2002, 37, 1-15.	10.8	648
2	Applied studies in solar photocatalytic detoxification: an overview. <i>Solar Energy</i> , 2003, 75, 329-336.	2.9	233
3	Test operation of a 100kW pilot plant for solar hydrogen production from water on a solar tower. <i>Solar Energy</i> , 2011, 85, 634-644.	2.9	138
4	SOLAR PHOTOCATALYTIC DEGRADATION OF WATER AND AIR POLLUTANTS: CHALLENGES AND PERSPECTIVES. <i>Solar Energy</i> , 1999, 66, 169-182.	2.9	128
5	Compound parabolic concentrator technology development to commercial solar detoxification applications. <i>Solar Energy</i> , 1999, 67, 317-330.	2.9	122
6	Solar hydrogen production by two-step thermochemical cycles: Evaluation of the activity of commercial ferrites. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2918-2924.	3.8	107
7	Hydrogen production by steam-gasification of petroleum coke using concentrated solar power"III. Reactor experimentation with slurry feeding. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 992-996.	3.8	93
8	Solar photocatalysis for detoxification and disinfection of contaminated water: pilot plant studies. <i>Catalysis Today</i> , 1999, 54, 283-290.	2.2	79
9	The use of CPC collectors for detoxification of contaminated water: Design, construction and preliminary results. <i>Solar Energy</i> , 2000, 68, 109-120.	2.9	67
10	Photocatalytic degradation of thiocarbamate herbicide active ingredients in water. <i>Applied Catalysis B: Environmental</i> , 1999, 21, 259-267.	10.8	63
11	Developments in solar photocatalysis for water purification. <i>Chemosphere</i> , 1998, 36, 2593-2606.	4.2	59
12	New large solar photocatalytic plant: set-up and preliminary results. <i>Chemosphere</i> , 2002, 47, 235-240.	4.2	49
13	Novel integration options of concentrating solar thermal technology with fossil-fuelled and CO2 capture processes. <i>Energy Procedia</i> , 2011, 4, 809-816.	1.8	43
14	Inactivation of titanium dioxide by sulphur: photocatalytic degradation of Vapam®. <i>Applied Catalysis B: Environmental</i> , 2001, 32, 1-9.	10.8	36
15	Hydrogen production by two-step thermochemical cycles based on commercial nickel ferrite: Kinetic and structural study. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6819-6826.	3.8	35
16	Metallic and carbonaceous "based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9645-9655.	3.8	34
17	Heterogeneous photocatalysis: degradation of ethylbenzene in TiO2 aqueous suspensions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1994, 79, 213-219.	2.0	30
18	Phosphorus-Doped Graphene as a Metal-Free Material for Thermochemical Water Reforming at Unusually Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 838-846.	3.2	28

#	ARTICLE	IF	CITATIONS
19	High-Performance, Low-Cost Solar Collectors for Disinfection of Contaminated Water. <i>Water Environment Research</i> , 2000, 72, 271-276.	1.3	24
20	A 100 kW cavity-receiver reactor with an integrated two-step thermochemical cycle: Thermal performance under solar transients. <i>Renewable Energy</i> , 2020, 153, 270-279.	4.3	12
21	Multi-Tubular Reactor for Hydrogen Production: CFD Thermal Design and Experimental Testing. <i>Processes</i> , 2019, 7, 31.	1.3	11
22	A control based on a knapsack problem for solar hydrogen production. <i>Optimal Control Applications and Methods</i> , 2016, 37, 496-507.	1.3	9
23	HYDROSOL-PLANT: Structured redox reactors for H ₂ production from solar thermochemical H ₂ O splitting. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	8
24	Thermal tests of a multi-tubular reactor for hydrogen production by using mixed ferrites thermochemical cycle. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	7
25	Hydrogen Production by Steam-Gasification of Petroleum Coke Using Concentrated Solar Power: Reactor Experimentation With Slurry Feeding. , 2006, , 23.		2
26	Response to the comments on "Metallic and carbonaceous-based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon production" by A. Rollinson. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14716-14717.	3.8	2
27	Experimental testing of multi-tubular reactor for hydrogen production and comparison with a thermal CFD model. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
28	An ageing protocol for testing high temperature solar materials for thermochemical applications. <i>Solar Energy Materials and Solar Cells</i> , 2020, 212, 110572.	3.0	2
29	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. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
30	Application of a CPC-based photocatalytic reactor to detoxification of washing waters from agricultural industries. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr3-283-Pr3-288.	0.2	1
31	Modelling Thermo-chemical Hydrogen Generation in a Solar Plant. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 1260-1264.	0.4	0
32	A Combinatorial Optimization Problem to Control a Solar Reactor. <i>Energy Procedia</i> , 2014, 49, 2037-2046.	1.8	0
33	Heliostat aiming strategy of 3 cylindrical cavity-receivers integrated in a 750 kW solar tower hydrogen plant. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0