

Julian Blanco Galvez

List of Publications by Citations

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74
papers

8,175
citations

44
h-index

78
g-index

78
ext. papers

8,756
ext. citations

9.5
avg, IF

5.66
L-index

#	Paper	IF	Citations
74	Decontamination and disinfection of water by solar photocatalysis: Recent overview and trends. <i>Catalysis Today</i> , 2009 , 147, 1-59	5.3	2187
73	Photocatalysis with solar energy at a pilot-plant scale: an overview. <i>Applied Catalysis B: Environmental</i> , 2002 , 37, 1-15	21.8	580
72	Photocatalytic treatment of water-soluble pesticides by photo-Fenton and TiO ₂ using solar energy. <i>Catalysis Today</i> , 2002 , 76, 209-220	5.3	267
71	Photocatalytic decontamination and disinfection of water with solar collectors. <i>Catalysis Today</i> , 2007 , 122, 137-149	5.3	215
70	Applied studies in solar photocatalytic detoxification: an overview. <i>Solar Energy</i> , 2003 , 75, 329-336	6.8	212
69	Experimental analysis of an air gap membrane distillation solar desalination pilot system. <i>Journal of Membrane Science</i> , 2011 , 379, 386-396	9.6	199
68	Engineering of solar photocatalytic collectors. <i>Solar Energy</i> , 2004 , 77, 513-524	6.8	190
67	Application of the colloidal stability of TiO ₂ particles for recovery and reuse in solar photocatalysis. <i>Water Research</i> , 2003 , 37, 3180-8	12.5	190
66	Enhancement of the rate of solar photocatalytic mineralization of organic pollutants by inorganic oxidizing species. <i>Applied Catalysis B: Environmental</i> , 1998 , 17, 347-356	21.8	181
65	TiO ₂ -based solar photocatalytic detoxification of water containing organic pollutants. Case studies of 2,4-dichlorophenoxyacetic acid (2,4-D) and of benzofuran. <i>Applied Catalysis B: Environmental</i> , 1998 , 17, 15-23	21.8	168
64	Solar efficiency of a new deposited titania photocatalyst: chlorophenol, pesticide and dye removal applications. <i>Applied Catalysis B: Environmental</i> , 2003 , 46, 319-332	21.8	163
63	Solar Photocatalytic Detoxification and Disinfection of Water: Recent Overview. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007 , 129, 4-15	2.3	161
62	Solar photocatalytic degradation of 4-chlorophenol using the synergistic effect between titania and activated carbon in aqueous suspension. <i>Catalysis Today</i> , 1999 , 54, 255-265	5.3	161
61	Water disinfection by solar photocatalysis using compound parabolic collectors. <i>Catalysis Today</i> , 2005 , 101, 345-352	5.3	148
60	Review of feasible solar energy applications to water processes. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 1437-1445	16.2	145
59	Applicability of the Photo-Fenton method for treating water containing pesticides. <i>Catalysis Today</i> , 1999 , 54, 309-319	5.3	139
58	Seawater desalination by an innovative solar-powered membrane distillation system: the MEDESOL project. <i>Desalination</i> , 2009 , 246, 567-576	10.3	128

57	Comparison of various titania samples of industrial origin in the solar photocatalytic detoxification of water containing 4-chlorophenol. <i>Catalysis Today</i> , 1999 , 54, 217-228	5.3	128
56	SOLAR PHOTOCATALYTIC DEGRADATION OF WATER AND AIR POLLUTANTS: CHALLENGES AND PERSPECTIVES. <i>Solar Energy</i> , 1999 , 66, 169-182	6.8	120
55	Solar photo-Fenton treatment Process parameters and process control. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 121-130	21.8	113
54	Experimental evaluation of two pilot-scale membrane distillation modules used for solar desalination. <i>Journal of Membrane Science</i> , 2012 , 409-410, 264-275	9.6	111
53	Compound parabolic concentrator technology development to commercial solar detoxification applications. <i>Solar Energy</i> , 1999 , 67, 317-330	6.8	108
52	Optimising solar photocatalytic mineralisation of pesticides by adding inorganic oxidising species; application to the recycling of pesticide containers. <i>Applied Catalysis B: Environmental</i> , 2000 , 28, 163-174	21.8	105
51	Solar photocatalytic disinfection of agricultural pathogenic fungi: Fusarium species. <i>Applied Catalysis B: Environmental</i> , 2007 , 74, 152-160	21.8	104
50	New industrial titania photocatalysts for the solar detoxification of water containing various pollutants. <i>Applied Catalysis B: Environmental</i> , 2002 , 35, 281-294	21.8	104
49	Photocatalytic degradation of industrial residual waters. <i>Solar Energy</i> , 1996 , 56, 401-410	6.8	102
48	Effects of experimental conditions on E. coli survival during solar photocatalytic water disinfection. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 189, 239-246	4.7	91
47	Effect of operating parameters on the testing of new industrial titania catalysts at solar pilot plant scale. <i>Applied Catalysis B: Environmental</i> , 2003 , 42, 349-357	21.8	90
46	Large solar plant photocatalytic water decontamination: Effect of operational parameters. <i>Solar Energy</i> , 1996 , 56, 421-428	6.8	89
45	Assessment of different configurations for combined parabolic-trough (PT) solar power and desalination plants in arid regions. <i>Energy</i> , 2011 , 36, 4950-4958	7.9	84
44	Large solar plant photocatalytic water decontamination: Degradation of atrazine. <i>Solar Energy</i> , 1996 , 56, 411-419	6.8	82
43	Photocatalytic degradation of EU priority substances: A comparison between TiO ₂ and Fenton plus photo-Fenton in a solar pilot plant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 185, 354-363	4.7	80
42	Optimization of pre-industrial solar photocatalytic mineralization of commercial pesticides. <i>Applied Catalysis B: Environmental</i> , 2000 , 25, 31-38	21.8	74
41	Performance of a 5kWe Organic Rankine Cycle at part-load operation. <i>Applied Energy</i> , 2014 , 120, 147-158	0.7	58
40	Photocatalytic degradation of phenol: Comparison between pilot-plant-scale and laboratory results. <i>Solar Energy</i> , 1996 , 56, 387-400	6.8	57

39	Evaluation of cooling technologies of concentrated solar power plants and their combination with desalination in the mediterranean area. <i>Applied Thermal Engineering</i> , 2013 , 50, 1514-1521	5.8	54
38	Design recommendations for a multi-effect distillation plant connected to a double-effect absorption heat pump: A solar desalination case study. <i>Desalination</i> , 2010 , 262, 11-14	10.3	52
37	Solar photocatalytic mineralization of commercial pesticides: acrinathrin. <i>Chemosphere</i> , 2000 , 40, 403-9	8.4	51
36	Simulation and evaluation of the coupling of desalination units to parabolic-trough solar power plants in the Mediterranean region. <i>Desalination</i> , 2011 , 281, 379-387	10.3	48
35	Low-concentrating CPC collectors for photocatalytic water detoxification: Comparison with a medium concentrating solar collector. <i>Water Science and Technology</i> , 1997 , 35, 157	2.2	48
34	Solar-heated Rankine cycles for water and electricity production: POWERSOL project. <i>Desalination</i> , 2007 , 212, 311-318	10.3	46
33	Coupling solar photo-Fenton and biotreatment at industrial scale: main results of a demonstration plant. <i>Journal of Hazardous Materials</i> , 2007 , 146, 440-6	12.8	45
32	New large solar photocatalytic plant: set-up and preliminary results. <i>Chemosphere</i> , 2002 , 47, 235-40	8.4	44
31	Solar driven degradation of 4-chlorophenol. <i>Catalysis Today</i> , 1999 , 54, 321-327	5.3	44
30	Design, construction and performance testing of a solar dryer for agroindustrial by-products. <i>Energy Conversion and Management</i> , 2010 , 51, 1510-1521	10.6	43
29	Treatment of chlorinated solvents by TiO ₂ photocatalysis and photo-Fenton: influence of operating conditions in a solar pilot plant. <i>Chemosphere</i> , 2005 , 58, 391-8	8.4	43
28	Solar photocatalytic mineralization of commercial pesticides: methamidophos. <i>Chemosphere</i> , 1999 , 38, 1145-56	8.4	42
27	First experimental results of a new hybrid solar/gas multi-effect distillation system: the AQUASOL project. <i>Desalination</i> , 2008 , 220, 619-625	10.3	39
26	Photocatalysis and radiation absorption in a solar plant. <i>Solar Energy Materials and Solar Cells</i> , 1996 , 44, 199-217	6.4	35
25	Assessment of an absorption heat pump coupled to a multi-effect distillation unit within AQUASOL project. <i>Desalination</i> , 2007 , 212, 303-310	10.3	32
24	Experimental assessment of connection of an absorption heat pump to a multi-effect distillation unit. <i>Desalination</i> , 2010 , 250, 500-505	10.3	31
23	Optimization of mild solar TiO ₂ photocatalysis as a tertiary treatment for municipal wastewater treatment plant effluents. <i>Applied Catalysis B: Environmental</i> , 2012 , 128, 119-125	21.8	26
22	Effect of partial intermittent shading on the performance of a simple basin solar still in south Algeria. <i>Desalination</i> , 2010 , 260, 65-69	10.3	26

21	Performance of a 5 kWe Solar-only Organic Rankine Unit Coupled to a Reverse Osmosis Plant. <i>Energy Procedia</i> , 2014 , 49, 2251-2260	2.3	23
20	Wastewater detoxification of organic and inorganic toxic compounds with solar collectors. <i>Desalination</i> , 1997 , 108, 213-220	10.3	23
19	Photocatalytic treatment of dimethoate by solar photocatalysis at pilot plant scale. <i>Environmental Chemistry Letters</i> , 2005 , 3, 118-121	13.3	23
18	Comparison between CSP+MED and CSP+RO in Mediterranean Area and MENA Region: Techno-economic Analysis. <i>Energy Procedia</i> , 2015 , 69, 1938-1947	2.3	22
17	Solar degradation of 5-amino-6-methyl-2-benzimidazolone by TiO ₂ and iron(III) catalyst with H ₂ O ₂ and O ₂ as electron acceptors. <i>Energy</i> , 2004 , 29, 853-860	7.9	20
16	A Comparative Study of Supported TiO ₂ as Photocatalyst in Water Decontamination at Solar Pilot Plant Scale. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2006 , 128, 331-337	2.3	19
15	New helio-photocatalytic-photovoltaic hybrid system for simultaneous water decontamination and solar energy conversion. <i>Solar Energy</i> , 2005 , 79, 353-359	6.8	18
14	A through analysis of solar irradiation measurements in the region of Arica Parinacota, Chile. <i>Renewable Energy</i> , 2017 , 112, 197-208	8.1	17
13	Photo-Fenton degradation of alachlor, atrazine, chlorfenvinphos, diuron, isoproturon and pentachlorophenol at solar pilot plant. <i>International Journal of Environment and Pollution</i> , 2006 , 27, 135	0.7	17
12	Pre-Industrial Experience in Solar Photocatalytic Mineralization of Real Wastewaters. Application to Pesticide Container Recycling. <i>Water Science and Technology</i> , 1999 , 40, 123	2.2	17
11	Parametric equations for the variables of a steady-state model of a multi-effect desalination plant. <i>Desalination and Water Treatment</i> , 2013 , 51, 1229-1241		14
10	Treatment of 2,4-Dichlorophenol by Solar Photocatalysis: Comparison of Coupled Photocatalytic-Active Carbon vs. Active Carbon. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2001 , 123, 138-142	2.3	14
9	Preliminary thermoeconomic analysis of combined parabolic trough solar power and desalination plant in port Safaga (Egypt). <i>Desalination and Water Treatment</i> , 2013 , 51, 1887-1899		12
8	Field evaluation of coated plates of a compact heat exchanger to mitigate crystallization deposit formation in an MD desalination plant. <i>Desalination</i> , 2013 , 324, 21-33	10.3	9
7	Modeling of the heat transfer of a solar multi-effect distillation plant at the Plataforma Solar de Almería. <i>Desalination and Water Treatment</i> , 2011 , 31, 257-268		9
6	Comparative evaluation of two membrane distillation modules. <i>Desalination and Water Treatment</i> , 2011 , 31, 226-234		9
5	Fuzzy inference systems applied to the daily ultraviolet radiation evaluation (295-385 nm) from daily global radiation. <i>Solar Energy</i> , 2003 , 75, 447-454	6.8	8
4	Detoxification of Pesticide Containing Effluents by Solar Driven Fenton Process. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999 , 213, 67-74	3.1	5

3	The AQUASOL System: Solar Collector Field Efficiency and Solar-Only Mode Performance. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011 , 133,	2.3	3
2	THE PSA EXPERIENCE ON SOLAR DESALINATION: TECHNOLOGY DEVELOPMENT AND RESEARCH ACTIVITIES 2007 , 195-206		3
1	Towards an alignment of national research programmes and funding for CST technologies in Europe 2018 ,		1