

# Julian Blanco Galvez

## List of Publications by Year in descending order

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74  
papers

9,387  
citations

50170

46  
h-index

69108

77  
g-index

78  
all docs

78  
docs citations

78  
times ranked

7904  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decontamination and disinfection of water by solar photocatalysis: Recent overview and trends. <i>Catalysis Today</i> , 2009, 147, 1-59.	2.2	2,574
2	Photocatalysis with solar energy at a pilot-plant scale: an overview. <i>Applied Catalysis B: Environmental</i> , 2002, 37, 1-15.	10.8	648
3	Photocatalytic treatment of water-soluble pesticides by photo-Fenton and TiO <sub>2</sub> using solar energy. <i>Catalysis Today</i> , 2002, 76, 209-220.	2.2	293
4	Photocatalytic decontamination and disinfection of water with solar collectors. <i>Catalysis Today</i> , 2007, 122, 137-149.	2.2	252
5	Applied studies in solar photocatalytic detoxification: an overview. <i>Solar Energy</i> , 2003, 75, 329-336.	2.9	233
6	Experimental analysis of an air gap membrane distillation solar desalination pilot system. <i>Journal of Membrane Science</i> , 2011, 379, 386-396.	4.1	233
7	Engineering of solar photocatalytic collectors. <i>Solar Energy</i> , 2004, 77, 513-524.	2.9	220
8	Application of the colloidal stability of TiO <sub>2</sub> particles for recovery and reuse in solar photocatalysis. <i>Water Research</i> , 2003, 37, 3180-3188.	5.3	217
9	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.	10.8	198
10	TiO <sub>2</sub> -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.	10.8	195
11	Solar Photocatalytic Detoxification and Disinfection of Water: Recent Overview. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007, 129, 4-15.	1.1	183
12	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.	2.2	177
13	Review of feasible solar energy applications to water processes. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1437-1445.	8.2	177
14	Solar efficiency of a new deposited titania photocatalyst: chlorophenol, pesticide and dye removal applications. <i>Applied Catalysis B: Environmental</i> , 2003, 46, 319-332.	10.8	174
15	Water disinfection by solar photocatalysis using compound parabolic collectors. <i>Catalysis Today</i> , 2005, 101, 345-352.	2.2	166
16	Applicability of the Photo-Fenton method for treating water containing pesticides. <i>Catalysis Today</i> , 1999, 54, 309-319.	2.2	159
17	Seawater desalination by an innovative solar-powered membrane distillation system: the MEDESOL project. <i>Desalination</i> , 2009, 246, 567-576.	4.0	138
18	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.	2.2	137

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19	Experimental evaluation of two pilot-scale membrane distillation modules used for solar desalination. <i>Journal of Membrane Science</i> , 2012, 409-410, 264-275.	4.1	130
20	SOLAR PHOTOCATALYTIC DEGRADATION OF WATER AND AIR POLLUTANTS: CHALLENGES AND PERSPECTIVES. <i>Solar Energy</i> , 1999, 66, 169-182.	2.9	128
21	Solar photo-Fenton treatmentâ€™Process parameters and process control. <i>Applied Catalysis B: Environmental</i> , 2006, 64, 121-130.	10.8	128
22	Compound parabolic concentrator technology development to commercial solar detoxification applications. <i>Solar Energy</i> , 1999, 67, 317-330.	2.9	122
23	Solar photocatalytic disinfection of agricultural pathogenic fungi: <i>Fusarium</i> species. <i>Applied Catalysis B: Environmental</i> , 2007, 74, 152-160.	10.8	118
24	New industrial titania photocatalysts for the solar detoxification of water containing various pollutants. <i>Applied Catalysis B: Environmental</i> , 2002, 35, 281-294.	10.8	115
25	Photocatalytic degradation of industrial residual waters. <i>Solar Energy</i> , 1996, 56, 401-410.	2.9	114
26	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.	10.8	112
27	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.	10.8	107
28	Assessment of different configurations for combined parabolic-trough (PT) solar power and desalination plants in arid regions. <i>Energy</i> , 2011, 36, 4950-4958.	4.5	106
29	Effects of experimental conditions on <i>E. coli</i> survival during solar photocatalytic water disinfection. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 239-246.	2.0	105
30	Large solar plant photocatalytic water decontamination: Effect of operational parameters. <i>Solar Energy</i> , 1996, 56, 421-428.	2.9	98
31	Large solar plant photocatalytic water decontamination: Degradation of atrazine. <i>Solar Energy</i> , 1996, 56, 411-419.	2.9	95
32	Photocatalytic degradation of EU priority substances: A comparison between TiO <sub>2</sub> and Fenton plus photo-Fenton in a solar pilot plant. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 185, 354-363.	2.0	90
33	Optimization of pre-industrial solar photocatalytic mineralization of commercial pesticides. <i>Applied Catalysis B: Environmental</i> , 2000, 25, 31-38.	10.8	81
34	Low-concentrating CPC collectors for photocatalytic water detoxification: Comparison with a medium concentrating solar collector. <i>Water Science and Technology</i> , 1997, 35, 157.	1.2	67
35	Performance of a 5kWe Organic Rankine Cycle at part-load operation. <i>Applied Energy</i> , 2014, 120, 147-158.	5.1	65
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.	4.0	64

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37	Evaluation of cooling technologies of concentrated solar power plants and their combination with desalination in the mediterranean area. Applied Thermal Engineering, 2013, 50, 1514-1521.	3.0	63
38	Photocatalytic degradation of phenol: Comparison between pilot-plant-scale and laboratory results. Solar Energy, 1996, 56, 387-400.	2.9	60
39	Solar photocatalytic mineralization of commercial pesticides: acrinathrin. Chemosphere, 2000, 40, 403-409.	4.2	60
40	Design recommendations for a multi-effect distillation plant connected to a double-effect absorption heat pump: A solar desalination case study. Desalination, 2010, 262, 11-14.	4.0	53
41	Design, construction and performance testing of a solar dryer for agroindustrial by-products. Energy Conversion and Management, 2010, 51, 1510-1521.	4.4	52
42	Solar photocatalytic mineralization of commercial pesticides: Methamidophos. Chemosphere, 1999, 38, 1145-1156.	4.2	51
43	Solar-heated Rankine cycles for water and electricity production: POWERSOL project. Desalination, 2007, 212, 311-318.	4.0	51
44	Coupling solar photo-Fenton and biotreatment at industrial scale: Main results of a demonstration plant. Journal of Hazardous Materials, 2007, 146, 440-446.	6.5	50
45	New large solar photocatalytic plant: set-up and preliminary results. Chemosphere, 2002, 47, 235-240.	4.2	49
46	Treatment of chlorinated solvents by TiO <sub>2</sub> photocatalysis and photo-Fenton: influence of operating conditions in a solar pilot plant. Chemosphere, 2005, 58, 391-398.	4.2	48
47	First experimental results of a new hybrid solar/gas multi-effect distillation system: the AQUASOL project. Desalination, 2008, 220, 619-625.	4.0	46
48	Solar driven degradation of 4-chlorophenol. Catalysis Today, 1999, 54, 321-327.	2.2	45
49	Assessment of an absorption heat pump coupled to a multi-effect distillation unit within AQUASOL project. Desalination, 2007, 212, 303-310.	4.0	41
50	Photocatalysis and radiation absorption in a solar plant. Solar Energy Materials and Solar Cells, 1996, 44, 199-217.	3.0	39
51	Performance of a 5 kWe Solar-only Organic Rankine Unit Coupled to a Reverse Osmosis Plant. Energy Procedia, 2014, 49, 2251-2260.	1.8	36
52	Experimental assessment of connection of an absorption heat pump to a multi-effect distillation unit. Desalination, 2010, 250, 500-505.	4.0	35
53	Effect of partial intermittent shading on the performance of a simple basin solar still in south Algeria. Desalination, 2010, 260, 65-69.	4.0	32
54	Comparison between CSP+MED and CSP+RO in Mediterranean Area and MENA Region: Techno-economic Analysis. Energy Procedia, 2015, 69, 1938-1947.	1.8	31

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55	Optimization of mild solar TiO <sub>2</sub> photocatalysis as a tertiary treatment for municipal wastewater treatment plant effluents. <i>Applied Catalysis B: Environmental</i> , 2012, 128, 119-125.	10.8	29
56	Wastewater detoxification of organic and inorganic toxic compounds with solar collectors. <i>Desalination</i> , 1997, 108, 213-220.	4.0	28
57	Pre-Industrial Experience in Solar Photocatalytic Mineralization of Real Wastewaters. Application to Pesticide Container Recycling. <i>Water Science and Technology</i> , 1999, 40, 123.	1.2	27
58	Solar degradation of 5-amino-6-methyl-2-benzimidazolone by TiO <sub>2</sub> and iron(III) catalyst with H <sub>2</sub> O <sub>2</sub> and O <sub>2</sub> as electron acceptors. <i>Energy</i> , 2004, 29, 853-860.	4.5	25
59	Photocatalytic treatment of dimethoate by solar photocatalysis at pilot plant scale. <i>Environmental Chemistry Letters</i> , 2005, 3, 118-121.	8.3	25
60	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.	1.0	22
61	A Comparative Study of Supported TiO <sub>2</sub> 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.	1.1	19
62	New helio-photocatalytic“photovoltaic hybrid system for simultaneous water decontamination and solar energy conversion. <i>Solar Energy</i> , 2005, 79, 353-359.	2.9	18
63	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.	0.2	18
64	A through analysis of solar irradiation measurements in the region of Arica Parinacota, Chile. <i>Renewable Energy</i> , 2017, 112, 197-208.	4.3	17
65	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.	1.1	16
66	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.	4.0	13
67	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.	1.0	13
68	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.	1.0	12
69	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.	2.9	10
70	Comparative evaluation of two membrane distillation modules. <i>Desalination and Water Treatment</i> , 2011, 31, 226-234.	1.0	10
71	Detoxification of Pesticide Containing Effluents by Solar Driven Fenton Process. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999, 213, 67-74.	1.4	8
72	THE PSA EXPERIENCE ON SOLAR DESALINATION: TECHNOLOGY DEVELOPMENT AND RESEARCH ACTIVITIES. , 2007, , 195-206.		3

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73	The AQUASOL System: Solar Collector Field Efficiency and Solar-Only Mode Performance. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.1	3
74	Towards an alignment of national research programmes and funding for CST technologies in Europe. AIP Conference Proceedings, 2018, , .	0.3	2