Maria Carmen Hidalgo

List of Publications by Year
in descending order

109	5,576	66234	82410
papers	citations	42 h-index	72 g-index

111	111	111	6545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast photodegradation of rhodamine B and caffeine using ZnO-hydroxyapatite composites under UV-light illumination. Catalysis Today, 2022, 388-389, 176-186.	2.2	44
2	Exploring the photocatalytic activities of a highly {0 0 1} faceted TiO2 sensitized by coupling with AgBr or Ag3PO4. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 276, 115555.	1.7	4
3	Insights into the structural and physicochemical properties of Zn-Bi-O composites for efficient photodegradation of caffeic acid, rhodamine B and methyl orange. Applied Surface Science, 2022, 581, 152351.	3.1	5
4	Visible light photodegradation of blue basic 41 using cobalt doped ZnO: Boxâ€“Behnken optimization and DFT calculation. Journal of the Iranian Chemical Society, 2022, 19, 2779-2794.	1.2	17
5	Sol-gel synthesis of ZnWO4-(ZnO) composite materials. Characterization and photocatalytic properties. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 404, 112962.	2.0	9
6	Enhanced UV and visible light photocatalytic properties of synthesized AgBr/SnO2 composites. Separation and Purification Technology, 2021, 257, 117948.	3.9	43
7	Features of coupled AgBr/WO3 materials as potential photocatalysts. Journal of Alloys and Compounds, 2021, 867, 159191.	2.8	25
8	ZnO/Ag3PO4 and ZnOâ€“Malachite as Effective Photocatalysts for the Removal of Enteropathogenic Bacteria, Dyestuffs, and Heavy Metals from Municipal and Industrial Wastewater. Water (Switzerland), 2021, 13, 2264.	1.2	0
9	How the Ti Precursor is Involved in the Effectiveness of Pt-TiO2 Materials in Photodegrading Methyl Orange. Revista Facultad De Ciencias BÃ¡sicas, 2021, 16, 21-30.	0.2	2
10	Photocatalytic production of hydrogen and methane from glycerol reforming over Pt/TiO2â€“Nb2O5. International Journal of Hydrogen Energy, 2021, 46, 38678-38691.	3.8	20
11	Photocatalytic Treatment of Stained Wastewater Coming from Handicraft Factories. A Case Study at the Pilot Plant Level. Water (Switzerland), 2021, 13, 2705.	1.2	8
12	Effect of synthesis pH on the physicochemical properties of a synthesized Bi2WO6 and the type of substrate chosen, in assessing its photo-catalytic activities. Arabian Journal of Chemistry, 2020, 13, 431-443.	2.3	11
13	Role of Fe(III) in aqueous solution or deposited on ZnO surface in the photoassisted degradation of rhodamine B and caffeine. Chemosphere, 2020, 241, 125009.	4.2	18
14	Preparation of ZnFe2O4/ZnO composite: Effect of operational parameters for photocatalytic degradation of dyes under UV and visible illumination. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112305.	2.0	58
15	Hybrid ZnO/Ag3PO4 photocatalysts, with low and high phosphate molar percentages. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 388, 112196.	2.0	22
16	Ptâ€“TiO2â€“Nb2O5 heterojunction as effective photocatalyst for the degradation of diclofenac and ketoprofen. Materials Science in Semiconductor Processing, 2020, 107, 104839.	1.9	43
17	Microwave-assisted sol-gel synthesis of TiO2 in the presence of halogenhydric acids. Characterization and photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 394, 112457.	2.0	16
18	Evaluation of Auâ€“ZnO, ZnO/Ag2CO3 and Agâ€“TiO2 as Photocatalyst for Wastewater Treatment. Topics in Catalysis, 2020, 63, 1286-1301.	1.3	11

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19	Comparison of the effects generated by the dry-soft grinding and the photodeposition of Au and Pt processes on the visible light absorption and photoactivity of TiO2. Materials Research Express, 2019, 6, 1050d9.	0.8	2
20	Extraordinary visible photocatalytic activity of a Co0.2Zn0.8O system studied in the Remazol BB oxidation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111877.	2.0	18
21	Differences in the Catalytic Behavior of Au-Metalized TiO2 Systems During Phenol Photo-Degradation and CO Oxidation. Catalysts, 2019, 9, 331.	1.6	7
22	Fluorinated and Platinized Titania as Effective Materials in the Photocatalytic Treatment of Dyestuffs and Stained Wastewater Coming from Handicrafts Factories. Catalysts, 2019, 9, 179.	1.6	13
23	BixTiyOz-Fe multiphase systems with excellent photocatalytic performance in the visible. Catalysis Today, 2019, 328, 136-141.	2.2	5
24	UV and visible-light driven photocatalytic removal of caffeine using ZnO modified with different noble metals (Pt, Ag and Au). Materials Research Bulletin, 2019, 112, 251-260.	2.7	81
25	Coupling of WO3 with anatase TiO2 sample with high {001} facet exposition: Effect on the photocatalytic properties. Catalysis Today, 2019, 328, 142-148.	2.2	18
26	Coupling of Ag2CO3 to an optimized ZnO photocatalyst: Advantages vs. disadvantages. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 369, 119-132.	2.0	40
27	Synthesis and Characterization of ZnO-ZrO₂ Nanocomposites for Photocatalytic Degradation and Mineralization of Phenol. Journal of Nanomaterials, 2019, 2019, 1-12.	1.5	49
28	Urban wastewater treatment by using Ag/ZnO and Pt/TiO2 photocatalysts. Environmental Science and Pollution Research, 2019, 26, 4171-4179.	2.7	16
29	Photo-induced processes on Nb 2 O 5 synthesized by different procedures. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 359, 40-52.	2.0	14
30	Silver-modified ZnO highly UV-photoactive. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 112-122.	2.0	46
31	High {0â€¯0â€¯1} faceted TiO2 nanoparticles for the valorization of oxygenated compounds present in aqueous biomass-derived feedstocks. Journal of Catalysis, 2018, 358, 266-276.	3.1	16
32	Design of Ag/ and Pt/TiO2-SiO2 nanomaterials for the photocatalytic degradation of phenol under solar irradiation. Environmental Science and Pollution Research, 2018, 25, 18894-18913.	2.7	10
33	Study of the effectiveness of the flocculation-photocatalysis in the treatment of wastewater coming from dairy industries. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 256-264.	2.0	29
34	A facile shape-controlled synthesis of highly photoactive fluorine containing TiO2 nanosheets with high {001} facet exposure. Journal of Materials Science, 2018, 53, 435-446.	1.7	32
35	ZnO and Pt-ZnO photocatalysts: Characterization and photocatalytic activity assessing by means of three substrates. Catalysis Today, 2018, 313, 12-19.	2.2	84
36	Enhanced photocatalytic removal of phenol from aqueous solutions using ZnO modified with Ag. Applied Catalysis B: Environmental, 2018, 225, 197-206.	10.8	392

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37	A comparative assessment of the UV-photocatalytic activities of ZnO synthesized by different routes. Journal of Environmental Chemical Engineering, 2018, 6, 7161-7171.	3.3	22
38	Photocatalytic H2 production from glycerol aqueous solutions over fluorinated Pt-TiO2 with high {001} facet exposure. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 365, 52-59.	2.0	40
39	High UV-photocatalytic activity of ZnO and Ag/ZnO synthesized by a facile method. Catalysis Today, 2017, 284, 121-128.	2.2	81
40	Outstanding visible photocatalytic activity of a new mixed bismuth titanatate material. Applied Surface Science, 2017, 394, 16-24.	3.1	9
41	Study of the E. coli elimination from urban wastewater over photocatalysts based on metallized TiO2. Applied Catalysis B: Environmental, 2017, 200, 469-476.	10.8	49
42	Mixed Î±-Fe2O3/Bi2WO6 oxides for photoassisted hetero-Fenton degradation of Methyl Orange and Phenol. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 521-533.	2.0	67
43	Study of the visible light activity of Pt and Au-TiO2 photocatalysts in organic pollutants degradation. Revista Facultad De IngenierÃa, 2017, , 20-30.	0.5	4
44	Photocatalytic hydrogen production from degradation of glucose over fluorinated and platinized TiO2 catalysts. Journal of Catalysis, 2016, 339, 47-56.	3.1	69
45	Photocatalytic removal of patent blue V dye on Au-TiO 2 and Pt-TiO 2 catalysts. Applied Catalysis B: Environmental, 2016, 188, 134-146.	10.8	130
46	Boosting the visible-light photoactivity of Bi2WO6 using acidic carbon additives. Applied Catalysis A: General, 2015, 505, 467-477.	2.2	16
47	Study of the phenol photocatalytic degradation over TiO2 modified by sulfation, fluorination, and platinum nanoparticles photodeposition. Applied Catalysis B: Environmental, 2015, 179, 305-312.	10.8	66
48	Simultaneous Production of CH₄and H₂from Photocatalytic Reforming of Glucose Aqueous Solution on Sulfated Pd-TiO₂Catalysts. Oil and Gas Science and Technology, 2015, 70, 891-902.	1.4	31
49	A comparative study of Bi2WO6, CeO2, and TiO2 as catalysts for selective photo-oxidation of alcohols to carbonyl compounds. Applied Catalysis A: General, 2015, 505, 375-381.	2.2	22
50	Photocatalytic reduction of CO2 over platinised Bi2WO6-based materials. Photochemical and Photobiological Sciences, 2015, 14, 678-685.	1.6	39
51	Photocatalytic propylene epoxidation on Bi2WO6-based photocatalysts. Research on Chemical Intermediates, 2015, 41, 4199-4212.	1.3	7
52	Synthesis and application of layered titanates in the photocatalytic degradation of phenol. Applied Catalysis B: Environmental, 2015, 163, 23-29.	10.8	23
53	Correlation study between photo-degradation and surface adsorption properties of phenol and methyl orange on TiO2 Vs platinum-supported TiO2. Applied Catalysis B: Environmental, 2014, 150-151, 107-115.	10.8	51
54	Effect of the type of acid used in the synthesis of titaniaâ€“silica mixed oxides on their photocatalytic properties. Applied Catalysis B: Environmental, 2014, 150-151, 389-395.	10.8	19

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55	Role of activated carbon on the increased photocatalytic activity of AC/Bi2WO6 coupled materials. Applied Catalysis A: General, 2013, 466, 51-59.	2.2	17
56	Cyclohexane photocatalytic oxidation on Pt/TiO2 catalysts. Catalysis Today, 2013, 209, 164-169.	2.2	66
57	Degradation of Rhodamine B/Phenol Mixtures in Water by Sunâ€Like Excitation of a Bi₂WO₆â€“TiO₂ Photocatalyst. Photochemistry and Photobiology, 2013, 89, 832-840.	1.3	29
58	In situ FT-IR study of the adsorption and photocatalytic oxidation of ethanol over sulfated and metallized TiO2. Applied Catalysis B: Environmental, 2013, 142-143, 205-213.	10.8	52
59	Gas-phase Photocatalytic Partial Oxidation of Cyclohexane to Cyclohexanol and Cyclohexanone on Au/TiO2 Photocatalysts. Journal of Advanced Oxidation Technologies, 2013, 16, .	0.5	7
60	Photocatalytic Ethanol Oxidative Dehydrogenation over Pt/TiO₂: Effect of the Addition of Blue Phosphors. International Journal of Photoenergy, 2012, 2012, 1-9.	1.4	23
61	Oxidative Dehydrogenation of Ethanol over Au/TiO2 Photocatalysts. Journal of Advanced Oxidation Technologies, 2012, 15, .	0.5	3
62	Ethanol partial photoxidation on Pt/TiO2 catalysts as green route for acetaldehyde synthesis. Catalysis Today, 2012, 196, 101-109.	2.2	60
63	Selective photooxidation of alcohols as test reaction for photocatalytic activity. Applied Catalysis B: Environmental, 2012, 128, 150-158.	10.8	27
64	Insights towards the influence of Pt features on the photocatalytic activity improvement of TiO2 by platinisation. Applied Catalysis B: Environmental, 2012, 126, 76-85.	10.8	58
65	Photocatalytic activity of single and mixed nanosheet-like Bi2WO6 and TiO2 for Rhodamine B degradation under sunlike and visible illumination. Applied Catalysis A: General, 2012, 423-424, 34-41.	2.2	43
66	Synthesis, characterization and photocatalytic activity of Bi-doped TiO2 photocatalysts under simulated solar irradiation. Applied Catalysis A: General, 2011, , .	2.2	13
67	Photodeposition of gold on titanium dioxide for photocatalytic phenol oxidation. Applied Catalysis A: General, 2011, 397, 112-120.	2.2	86
68	Comparative study of the photodeposition of Pt, Au and Pd on pre-sulphated TiO2 for the photocatalytic decomposition of phenol. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 275-283.	2.0	164
69	Novel Bi2WO6â€“TiO2 heterostructures for Rhodamine B degradation under sunlike irradiation. Journal of Hazardous Materials, 2011, 185, 1425-1434.	6.5	87
70	Characterisation and photocatalytic properties of titaniaâ€“silica mixed oxides doped with Ag and Pt. Applied Catalysis A: General, 2010, 387, 135-140.	2.2	25
71	Gas phase photocatalytic oxidation of toluene using highly active Pt doped TiO2. Journal of Molecular Catalysis A, 2010, 320, 14-18.	4.8	31
72	Sunlight highly photoactive Bi2WO6â€“TiO2 heterostructures for rhodamine B degradation. Chemical Communications, 2010, 46, 4809.	2.2	129

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73	Influence of sulfur on the structural, surface properties and photocatalytic activity of sulfated TiO2. Applied Catalysis B: Environmental, 2009, 90, 633-641.	10.8	52
74	Effect of Sulfate Pretreatment on Gold-Modified TiO₂ for Photocatalytic Applications. Journal of Physical Chemistry C, 2009, 113, 12840-12847.	1.5	81
75	Titania-Supported Gold Catalysts: Comparison between the Photochemical Phenol Oxidation and Gaseous CO Oxidation Performances. Catalysis Letters, 2008, 123, 198-206.	1.4	32
76	Highly photoactive ZnO by amine capping-assisted hydrothermal treatment. Applied Catalysis B: Environmental, 2008, 83, 30-38.	10.8	70
77	Influence of amine template on the photoactivity of TiO2 nanoparticles obtained by hydrothermal treatment. Applied Catalysis B: Environmental, 2008, 78, 176-182.	10.8	27
78	Study of the synergic effect of sulphate pre-treatment and platinisation on the highly improved photocatalytic activity of TiO2. Applied Catalysis B: Environmental, 2008, 81, 49-55.	10.8	34
79	Photocatalytic properties of surface modified platinised TiO2: Effects of particle size and structural composition. Catalysis Today, 2007, 129, 43-49.	2.2	82
80	Hydrothermal preparation of highly photoactive TiO2 nanoparticles. Catalysis Today, 2007, 129, 50-58.	2.2	114
81	EXAFS study and photocatalytic properties of un-doped and iron-doped ZrO2-TiO2 (photo-) catalysts. Catalysis Today, 2007, 128, 245-250.	2.2	21
82	XAFS study of high-disperse Pd-containing nanosystem supported on TiO2 oxide matrix. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 180-184.	0.7	3
83	Effect of TiO2 acidic pre-treatment on the photocatalytic properties for phenol degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 179, 20-27.	2.0	133
84	A fine route to tune the photocatalytic activity of TiO2. Applied Catalysis B: Environmental, 2006, 63, 31-40.	10.8	125
85	Structural and surface approach to the enhanced photocatalytic activity of sulfated TiO2 photocatalyst. Applied Catalysis B: Environmental, 2006, 63, 45-59.	10.8	228
86	Cu-doped TiO2 systems with improved photocatalytic activity. Applied Catalysis B: Environmental, 2006, 67, 41-51.	10.8	491
87	Highly photoactive supported TiO2 prepared by thermal hydrolysis of TiOSO4: Optimisation of the method and comparison with other synthetic routes. Applied Catalysis B: Environmental, 2005, 61, 259-266.	10.8	46
88	EXAFS Study of Fe3 Interaction with ZrO2 and TiO2 Oxides. Physica Scripta, 2005, , 736.	1.2	1
89	Enhancement of TiO2/C photocatalytic activity by sulfate promotion. Applied Catalysis A: General, 2004, 259, 235-243.	2.2	37
90	Highly photoactive and stable TiO2 coatings on sintered glass. Applied Catalysis A: General, 2004, 277, 183-189.	2.2	25

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91	Influence of residual carbon on the photocatalytic activity of TiO2/C samples for phenol oxidation. Applied Catalysis B: Environmental, 2003, 43, 163-173.	10.8	46
92	Photocatalytic behaviour of sulphated TiO2 for phenol degradation. Applied Catalysis B: Environmental, 2003, 45, 39-50.	10.8	118
93	XAFS study of an intermetallic TiFe0.95Zr0.03Mo0.02 system for CO2 conversion. Nuclear Instruments & Methods in Physics Research B, 2003, 199, 216-221.	0.6	0
94	Role of Fe3+/Fe2+ as TiO2 dopant ions in photocatalytic degradation of carboxylic acids. Journal of Molecular Catalysis A, 2003, 197, 157-171.	4.8	75
95	Effect of ZrO2 incorporation and calcination temperature on the photocatalytic activity of commercial TiO2 for salicylic acid and Cr(VI) photodegradation. Applied Catalysis A: General, 2002, 231, 185-199.	2.2	54
96	Modification of the physicochemical properties of commercial TiO2 samples by soft mechanical activation. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 341-348.	2.0	43
97	A novel preparation of high surface area TiO2 nanoparticles from alkoxide precursor and using active carbon as additive. Catalysis Today, 2002, 76, 91-101.	2.2	96
98	Preparation and Physicochemical Properties of ZrO2and Fe/ZrO2Prepared by a Solâ˜'Gel Technique. Langmuir, 2001, 17, 202-210.	1.6	210
99	Influence of Carboxylic Acid on the Photocatalytic Reduction of Cr(VI) Using Commercial TiO2. Langmuir, 2001, 17, 7174-7177.	1.6	76
100	Structural determination of the Fe-modified zirconium oxide. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 470, 341-346.	0.7	19
101	EXAFS study of the Fex/ZrO2composite nanomaterials obtained by solâ€"gel synthesis. Journal of Synchrotron Radiation, 2001, 8, 528-530.	1.0	3
102	Photocatalytic deactivation of commercial TiO2 samples during simultaneous photoreduction of Cr(VI) and photooxidation of salicylic acid. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 138, 79-85.	2.0	146
103	Selectivity and mechanism of cumene liquid-phase oxidation in the presence of powdered mixed ironâ€"aluminum oxides prepared by alkoxy method. Applied Catalysis A: General, 2000, 193, 237-242.	2.2	16
104	Photocatalytic properties of ZrO2 and Fe/ZrO2 semiconductors prepared by a solâ€"gel technique. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 129, 89-99.	2.0	142
105	Low temperature selective methane activation to alkenes by a new hydrogen-accumulating system. Chemical Communications, 1999, , 943-944.	2.2	4
106	A laser flash photolysis study of the photochemical activity of a synthesised ZrTiO4. Materials Letters, 1999, 39, 370-373.	1.3	14
107	Study of the Initiation Route of Cumene Liquid-Phase Oxidation over Ironâ˜'Aluminum Oxide Catalysts Obtained by the Alkoxy Method. Langmuir, 1999, 15, 463-468.	1.6	8
108	Transformation of CO2Alone and Combined with Ethanol Present in the Hydrogen-Accumulating Intermetallic System TiFe0.95Zr0.03Mo0.02, Pd/SiO2, and Î³-Al2O3. Langmuir, 1999, 15, 6601-6604.	1.6	7

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109	Photocatalytic treatment based on TiO2 for a coal mining drainage. Revista Facultad De IngenierÃa, 0, , .	0.5	1