Fernando Fresno

List of Publications by Year
in descending order

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75 papers	3,824 citations	168829 31 h-index	139680 61 g-index
75 all docs	75 docs citations	75 times ranked	6592 citing authors

#	Article	IF	Citations
1	The role of the surface acidic/basic centers and redox sites on TiO2 in the photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2022, 303, 120931.	10.8	34
2	Improved Methane Production by Photocatalytic CO2 Conversion over Ag/In2O3/TiO2 Heterojunctions. Materials, 2022, 15, 843.	1.3	5
3	Structural and electronic insight into the effect of indium doping on the photocatalytic performance of TiO₂ for CO₂ conversion. Journal of Materials Chemistry A, 2022, 10, 6054-6064.	5.2	13
4	Assessing the feasibility of reduced graphene oxide as an electronic promoter for photocatalytic hydrogen production over Nb-Ta perovskite photocatalysts. Catalysis Today, 2021, 362, 22-27.	2.2	9
5	Selectivity in UV photocatalytic CO2 conversion over bare and silver-decorated niobium-tantalum perovskites. Catalysis Today, 2021, 361, 85-93.	2.2	17
6	Ionic liquid-assisted synthesis of F-doped titanium dioxide nanomaterials with high surface area for multi-functional catalytic and photocatalytic applications. Applied Catalysis A: General, 2021, 613, 118029.	2.2	14
7	Photoâ€Induced Selfâ€Cleaning and Wettability in TiO₂ Nanocolumn Arrays Obtained by Glancingâ€Angle Deposition with Sputtering. Advanced Sustainable Systems, 2021, 5, 2100071.	2.7	11
8	Synergism in TiO2 photocatalytic ozonation for the removal of dichloroacetic acid and thiacloprid. Environmental Research, 2021, 197, 110982.	3.7	17
9	Simultaneous Photocatalytic Abatement of NO and SO2: Influence of the TiO2 Nature and Mechanistic Insights. Journal of Photocatalysis, 2021, 2, 130-139.	0.4	1
10	A molecular approach to the synthesis of platinum-decorated mesoporous graphitic carbon nitride as selective CO2 reduction photocatalyst. Journal of CO2 Utilization, 2021, 50, 101574.	3.3	13
11	Irradiance-Controlled Photoassisted Synthesis of Sub-Nanometre Sized Ruthenium Nanoparticles as Co-Catalyst for TiO2 in Photocatalytic Reactions. Materials, 2021, 14, 4799.	1.3	1
12	TiO2-reduced graphene oxide-Pt nanocomposites for the photogeneration of hydrogen from ethanol liquid and gas phases. Catalysis Today, 2021, 380, 41-52.	2.2	8
13	Approaching photocatalysts characterization under real conditions: In situ and operando studies. , 2021, , 139-156.		2
14	Highly robust La1-xTixFeO3 dual catalyst with combined photocatalytic and photo-CWPO activity under visible light for 4-chlorophenol removal in water. Applied Catalysis B: Environmental, 2020, 262, 118310.	10.8	30
15	Ferrite Materials for Photoassisted Environmental and Solar Fuels Applications. Topics in Current Chemistry, 2020, 378, 6.	3.0	39
16	Hybrids Based on BOPHY-Conjugated Porous Polymers as Photocatalysts for Hydrogen Production: Insight into the Charge Transfer Pathway. ACS Catalysis, 2020, 10, 9804-9812.	5.5	38
17	Ti-Modified LaFeO₃/Î²-SiC Alveolar Foams as Immobilized Dual Catalysts with Combined Photo-Fenton and Photocatalytic Activity. ACS Applied Materials & Interfaces, 2020, 12, 57025-57037.	4.0	16
18	Silverâ€“Gold Bimetal-Loaded TiO₂ Photocatalysts for CO₂ Reduction. Industrial & Engineering Chemistry Research, 2020, 59, 9440-9450.	1.8	30

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19	Activity enhancement pathways in LaFeO3@TiO2 heterojunction photocatalysts for visible and solar light driven degradation of myclobutanil pesticide in water. Journal of Hazardous Materials, 2020, 400, 123099.	6.5	53
20	Recent Achievements in Development of TiO2-Based Composite Photocatalytic Materials for Solar Driven Water Purification and Water Splitting. Materials, 2020, 13, 1338.	1.3	76
21	TiO₂ Nanocolumn Arrays for More Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 5979-5989.	4.0	36
22	Synergy effect between photocatalysis and heterogeneous photo-Fenton catalysis on Ti-doped LaFeO₃ perovskite for high efficiency light-assisted water treatment. Catalysis Science and Technology, 2020, 10, 1299-1310.	2.1	42
23	Ferrite Materials for Photoassisted Environmental and Solar Fuels Applications. Topics in Current Chemistry Collections, 2020, , 107-162.	0.2	7
24	A Special Section on Nanostructured Catalysts for Environmental Remediation. Journal of Nanoscience and Nanotechnology, 2020, 20, 5859-5860.	0.9	1
25	Influence of Post-Synthesis Modifications of Ti1â^'xZrxO2 Nanocrystallites on Their Photocatalytic Activity for Toluene and Methylcyclohexane Degradation. Journal of Nanoscience and Nanotechnology, 2019, 19, 7810-7818.	0.9	1
26	Carbon nanotube synthesis and spinning as macroscopic fibers assisted by the ceramic reactor tube. Scientific Reports, 2019, 9, 9239.	1.6	28
27	Evaluation of photoassisted treatments for norfloxacin removal in water using mesoporous Fe2O3-TiO2 materials. Journal of Environmental Management, 2019, 238, 243-250.	3.8	35
28	Photoelectrochemical Hydrogen Evolution Driven by Visible-to-Ultraviolet Photon Upconversion. ACS Applied Energy Materials, 2019, 2, 207-211.	2.5	41
29	Easy and Green Route towards Nanostructured ZnO as an Active Sensing Material with Unexpected H₂S Dosimeterâ€Type Behaviour. European Journal of Inorganic Chemistry, 2019, 2019, 837-846.	1.0	4
30	Influence of surface density on the CO2 photoreduction activity of a DC magnetron sputtered TiO2 catalyst. Applied Catalysis B: Environmental, 2018, 224, 912-918.	10.8	30
31	Unravelling the effect of charge dynamics at the plasmonic metal/semiconductor interface for CO2 photoreduction. Nature Communications, 2018, 9, 4986.	5.8	168
32	Mechanistic View of the Main Current Issues in Photocatalytic CO₂ Reduction. Journal of Physical Chemistry Letters, 2018, 9, 7192-7204.	2.1	76
33	On the selectivity of CO2 photoreduction towards CH4 using Pt/TiO2 catalysts supported on mesoporous silica. Applied Catalysis B: Environmental, 2018, 239, 68-76.	10.8	98
34	Sulfur polyconjugated organic ligands as building block in photoactive metalâ€"organic frameworks. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e372-e373.	0.0	0
35	New insight in the CO2 photo-activation mechanism in artificial photosynthesis. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e287-e288.	0.0	0
36	Effect of La as Promoter in the Photoreduction of CO2 Over TiO2 Catalysts. Topics in Catalysis, 2017, 60, 1119-1128.	1.3	9

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37	CO2 reduction over NaNbO3 and NaTaO3 perovskite photocatalysts. Photochemical and Photobiological Sciences, 2017, 16, 17-23.	1.6	76
38	Metalâ€“organic frameworks based on conjugated organic ligands for optoelectronic applications. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C202-C202.	0.0	0
39	Unravelling the photoredox pathways in CO2 photoreduction by artificial photosynthesis. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C134-C134.	0.0	0
40	Hierarchical TiO 2 nanofibres as photocatalyst for CO 2 reduction: Influence of morphology and phase composition on catalytic activity. Journal of CO2 Utilization, 2016, 15, 24-31.	3.3	61
41	Factors influencing the photocatalytic activity ofÂalkali Nb Ta perovskites for hydrogen production from aqueous methanol solutions. International Journal of Hydrogen Energy, 2016, 41, 19921-19928.	3.8	11
42	Ga-Promoted Photocatalytic H2 Production over Pt/ZnO Nanostructures. ACS Applied Materials & Interfaces, 2016, 8, 23729-23738.	4.0	43
43	Photocatalytic H2 production from aqueous methanol solutions using metal-co-catalysed Zn2SnO4 nanostructures. Applied Catalysis B: Environmental, 2016, 191, 106-115.	10.8	20
44	Thermal Properties of Surface-Modified $$upalpha $$ Î± - and $$upvarepsilon $$ Îµ -Fe $$_{2}hbox {O}_{3}$$ 2 O 3 Photocatalysts Determined by Beam Deflection Spectroscopy. International Journal of Thermophysics, 2014, 35, 2107-2114.	1.0	9
45	Self-Cleaning and Anti-Fogging Surfaces Based on Nanostructured Metal Oxides. Advances in Science and Technology, 2014, 91, 39-47.	0.2	3
46	Synthesis of BiVO4/TiO2 composites and evaluation of their photocatalytic activity under indoor illumination. Environmental Science and Pollution Research, 2014, 21, 11189-11197.	2.7	24
47	Photocatalytic materials: recent achievements and near future trends. Journal of Materials Chemistry A, 2014, 2, 2863-2884.	5.2	387
48	Highly active photocatalytic coatings prepared by a low-temperature method. Environmental Science and Pollution Research, 2014, 21, 11238-11249.	2.7	58
49	Photocatalysis: new highlights from JEP 2013. Environmental Science and Pollution Research, 2014, 21, 11111-11115.	2.7	6
50	Incorporation of TiO₂ Into Mesoporous SiO₂: From Synthesis to Photocatalytic Applications. Journal of Surfaces and Interfaces of Materials, 2014, 2, 267-273.	0.5	2
51	Preparation of Photocatalytic Optically Transparent Coatings from Pigment Dispersions. Journal of Surfaces and Interfaces of Materials, 2014, 2, 280-287.	0.5	0
52	Design of Advanced Photocatalytic Materials for Energy and Environmental Applications. Green Energy and Technology, 2013, , .	0.4	102
53	Surface Functionalization of Nanostructured Fe₂O₃ Polymorphs: From Design to Light-Activated Applications. ACS Applied Materials & Interfaces, 2013, 5, 7130-7138.	4.0	44
54	Sensitizers: Dyes and Quantum Dots. Green Energy and Technology, 2013, , 329-343.	0.4	0

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55	Heterojunctions: Joining Different Semiconductors. Green Energy and Technology, 2013, , 311-327.	0.4	4
56	The New Promising Semiconductors: Metallates and Other Mixed Compounds. Green Energy and Technology, 2013, , 123-156.	0.4	2
57	Chalcogenides and Other Non-oxidic Semiconductors. Green Energy and Technology, 2013, , 157-169.	0.4	0
58	Future Perspectives of Photocatalysis. Green Energy and Technology, 2013, , 345-348.	0.4	1
59	Spectral response and stability of In2S3 as visible light-active photocatalyst. Catalysis Communications, 2012, 20, 1-5.	1.6	23
60	Hydrothermally synthesized nanocrystalline tin disulphide as visible light-active photocatalyst: Spectral response and stability. Applied Catalysis A: General, 2012, 415-416, 111-117.	2.2	43
61	V-doped SnS2: a new intermediate band material for a better use of the solar spectrum. Physical Chemistry Chemical Physics, 2011, 13, 20401.	1.3	80
62	Comparative study of the activity of nickel ferrites for solar hydrogen production by two-step thermochemical cycles. International Journal of Hydrogen Energy, 2010, 35, 8503-8510.	3.8	69
63	Waterâ^'Hydroxyl Interactions on Small Anatase Nanoparticles Prepared by the Hydrothermal Route. Journal of Physical Chemistry C, 2010, 114, 16534-16540.	1.5	54
64	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
65	Synthesis of Ti1â^'Sn O2 nanosized photocatalysts in reverse microemulsions. Catalysis Today, 2009, 143, 230-236.	2.2	29
66	Development of alternative photocatalysts to TiO2: Challenges and opportunities. Energy and Environmental Science, 2009, 2, 1231.	15.6	1,150
67	Photocatalytic degradation of toluene over doped and coupled (Ti,M)O2 (M=Sn or Zr) nanocrystalline oxides: Influence of the heteroatom distribution on deactivation. Applied Catalysis B: Environmental, 2008, 84, 598-606.	10.8	66
68	Influence of Catalyst Properties and Reactor Configuration on the Photocatalytic Degradation of Trichloroethylene Under Sunlight Irradiation. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.1	8
69	FTIR and NMR Study of the Adsorbed Water on Nanocrystalline Anatase. Journal of Physical Chemistry C, 2007, 111, 10590-10596.	1.5	94
70	Magnetic resonance study of the defects influence on the surface characteristics of nanosize anatase. Catalysis Today, 2007, 129, 240-246.	2.2	36
71	Influence of Sn4+on the structural and electronic properties of Ti1â^'xSnxO2nanoparticles used as photocatalysts. Physical Chemistry Chemical Physics, 2006, 8, 2421-2430.	1.3	42
72	Triphenyltin hydroxide as a precursor for the synthesis of nanosized tin-doped TiO2 photocatalysts. Applied Organometallic Chemistry, 2006, 20, 220-225.	1.7	22

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73	Photocatalytic degradation of a sulfonylurea herbicide over pure and tin-doped TiO2 photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 173, 13-20.	2.0	55
74	Influence of the structural characteristics of Ti1âˆ'xSnxO2 nanoparticles on their photocatalytic activity for the elimination of methylcyclohexane vapors. Applied Catalysis B: Environmental, 2005, 55, 159-167.	10.8	81
75	Effect of the TiO 2 Nanocrystal Dispersion Over SBAâ€15 in the Photocatalytic H 2 Production Using Ethanol as Electron Donor. Advanced Sustainable Systems, 0, , 2100133.	2.7	9