Marianna Bellardita

List of Publications by Year
in descending order

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67 papers	3,896 citations	117453 34 h-index	133063 59 g-index
68 all docs	68 docs citations	68 times ranked	5307 citing authors

#	Article	IF	Citations
1	Brookite, the Least Known TiO2 Photocatalyst. Catalysts, 2013, 3, 36-73.	1.6	474
2	Photocatalytic activity of nanocrystalline TiO2 (brookite, rutile and brookite-based) powders prepared by thermohydrolysis of TiCl4 in aqueous chloride solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 317, 366-376.	2.3	259
3	Overview on oxidation mechanisms of organic compounds by TiO2 in heterogeneous photocatalysis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2012, 13, 224-245.	5.6	258
4	Selective photocatalytic oxidation of aromatic alcohols in water by using P-doped g-C3N4. Applied Catalysis B: Environmental, 2018, 220, 222-233.	10.8	232
5	Heterogeneous Photocatalysis for Selective Formation of High-Value-Added Molecules: Some Chemical and Engineering Aspects. ACS Catalysis, 2018, 8, 11191-11225.	5.5	166
6	Highly Active Photocatalytic TiO₂ Powders Obtained by Thermohydrolysis of TiCl₄ in Water. Journal of Physical Chemistry C, 2009, 113, 15166-15174.	1.5	159
7	Preparation and photoactivity of nanostructured anatase, rutile and brookite TiO2 thin films. Chemical Communications, 2006, , 4943.	2.2	120
8	Photocatalytic activity of TiO2/SiO2 systems. Journal of Hazardous Materials, 2010, 174, 707-713.	6.5	111
9	Titania Photocatalysts for Selective Oxidations in Water. ChemSusChem, 2011, 4, 1431-1438.	3.6	100
10	Influence of crystallinity and OH surface density on the photocatalytic activity of TiO2 powders. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 273, 59-67.	2.0	90
11	Photocatalytic formation of H2 and value-added chemicals in aqueous glucose (Pt)-TiO2 suspension. International Journal of Hydrogen Energy, 2016, 41, 5934-5947.	3.8	90
12	Environmentally Friendly Photocatalytic Oxidation of Aromatic Alcohol to Aldehyde in Aqueous Suspension of Brookite TiO2. Catalysis Letters, 2008, 126, 58-62.	1.4	89
13	Photocatalytic behaviour of metal-loaded TiO2 aqueous dispersions and films. Chemical Physics, 2007, 339, 94-103.	0.9	83
14	Absolute crystallinity and photocatalytic activity of brookite TiO2 samples. Applied Catalysis B: Environmental, 2017, 201, 150-158.	10.8	80
15	Preparation of N-doped TiO2: characterization and photocatalytic performance under UV and visible light. Physical Chemistry Chemical Physics, 2009, 11, 4084.	1.3	79
16	(Photo)catalyst Characterization Techniques. , 2019, , 87-152.		74
17	Keggin heteropolyacid H3PW12O40 supported on different oxides for catalytic and catalytic photo-assisted propene hydration. Physical Chemistry Chemical Physics, 2013, 15, 13329.	1.3	69
18	Preparation of photocatalytic brookite thin films. Thin Solid Films, 2007, 515, 3527-3529.	0.8	65

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19	Au/TiO2-CeO2 Catalysts for Photocatalytic Water Splitting and VOCs Oxidation Reactions. Catalysts, 2016, 6, 121.	1.6	63
20	Visible light photocatalytic activity of macro-mesoporous TiO 2 -CeO 2 inverse opals. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 352, 25-34.	2.0	60
21	Determination of the crystallinity of TiO2 photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 312-320.	2.0	53
22	Step-by-Step Growth of HKUST-1 on Functionalized TiO2 Surface: An Efficient Material for CO2 Capture and Solar Photoreduction. Catalysts, 2018, 8, 353.	1.6	52
23	Preparation and photoactivity of samarium loaded anatase, brookite and rutile catalysts. Applied Catalysis B: Environmental, 2011, 104, 291-299.	10.8	48
24	Photocatalytic oxidation of trans-ferulic acid to vanillin on TiO2 and WO3-loaded TiO2 catalysts. Catalysis Today, 2015, 252, 195-200.	2.2	48
25	Inorganic gels as precursors of TiO2 photocatalysts prepared by low temperature microwave or thermal treatment. Applied Catalysis B: Environmental, 2008, 84, 742-748.	10.8	46
26	Photocatalytic green synthesis of piperonal in aqueous TiO2 suspension. Applied Catalysis B: Environmental, 2014, 144, 607-613.	10.8	46
27	Photocatalytic conversion of glucose in aqueous suspensions of heteropolyacidâ€“TiO₂ composites. RSC Advances, 2015, 5, 59037-59047.	1.7	46
28	N-TiO2 Photocatalysts highly active under visible irradiation for NOX abatement and 2-propanol oxidation. Catalysis Today, 2013, 206, 19-25.	2.2	43
29	A comparison between photocatalytic and catalytic oxidation of 2-Propanol over Au/TiO 2 â€“CeO 2 catalysts. Journal of Molecular Catalysis A, 2016, 415, 56-64.	4.8	43
30	Effect of the addition of different doping agents on visible light activity of porous TiO2 photocatalysts. Molecular Catalysis, 2018, 455, 108-120.	1.0	42
31	A solar photothermocatalytic approach for the CO2 conversion: Investigation of different synergisms on CoO-CuO/brookite TiO2-CeO2 catalysts. Chemical Engineering Journal, 2022, 428, 131249.	6.6	39
32	Efficient H2 production by photocatalytic water splitting under UV or solar light over variously modified TiO2-based catalysts. International Journal of Hydrogen Energy, 2019, 44, 14796-14807.	3.8	38
33	Photocatalytic CO2 Reduction in Gas-Solid Regime in the Presence of Bare, SiO2 Supported or Cu-Loaded TiO2 Samples. Current Organic Chemistry, 2013, 17, 2440-2448.	0.9	36
34	Preparation of Sm-loaded brookite TiO2 photocatalysts. Catalysis Today, 2011, 161, 35-40.	2.2	35
35	Selective oxidation of phenol and benzoic acid in water via home-prepared TiO2 photocatalysts: Distribution of hydroxylation products. Applied Catalysis A: General, 2012, 441-442, 79-89.	2.2	35
36	CO2 conversion in a photocatalytic continuous membrane reactor. RSC Advances, 2016, 6, 67418-67427.	1.7	34

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37	Photocatalytic Solar Light H₂ Production by Aqueous Glucose Reforming. European Journal of Inorganic Chemistry, 2018, 2018, 4522-4532.	1.0	34
38	Exploring the Photothermo-Catalytic Performance of Brookite TiO2-CeO2 Composites. Catalysts, 2020, 10, 765.	1.6	34
39	Photoactivity under visible light of metal loaded TiO 2 catalysts prepared by low frequency ultrasound treatment. Catalysis Today, 2017, 284, 92-99.	2.2	33
40	Photocatalysis in dimethyl carbonate green solvent: degradation and partial oxidation of phenanthrene on supported TiO₂. RSC Advances, 2014, 4, 40859-40864.	1.7	32
41	Photochemical and photocatalytic isomerization of trans -caffeic acid and cyclization of cis -caffeic acid to esculetin. Applied Catalysis B: Environmental, 2016, 182, 347-355.	10.8	30
42	Photocatalytic H2 production over inverse opal TiO2 catalysts. Catalysis Today, 2019, 321-322, 113-119.	2.2	29
43	Highly stable defective TiO2-x with tuned exposed facets induced by fluorine: Impact of surface and bulk properties on selective UV/visible alcohol photo-oxidation. Applied Surface Science, 2020, 510, 145419.	3.1	28
44	Reduced grey brookite for noble metal free photocatalytic H₂evolution. Journal of Materials Chemistry A, 2021, 9, 1168-1179.	5.2	26
45	Influence of fluorine on the synthesis of anatase TiO₂ for photocatalytic partial oxidation: are exposed facets the main actors?. Catalysis Science and Technology, 2018, 8, 1606-1620.	2.1	25
46	(Photo)electrocatalytic Versus Heterogeneous Photocatalytic Carbon Dioxide Reduction. ChemPhotoChem, 2021, 5, 767-791.	1.5	21
47	Validation of a two-dimensional modeling of an externally irradiated slurry photoreactor. Chemical Engineering Journal, 2015, 262, 490-498.	6.6	19
48	Photocatalytic and photothermocatalytic applications of cerium oxide-based materials. , 2020, , 109-167.		17
49	Formation of High Added Value Chemicals by Photocatalytic Treatment of Biomass. Mini-Reviews in Organic Chemistry, 2020, 17, 884-901.	0.6	17
50	Effects of weathering on the performance of self-cleaning photocatalytic paints. Cement and Concrete Composites, 2019, 96, 77-86.	4.6	16
51	Tuning the selectivity to aldehyde via pH regulation in the photocatalytic oxidation of 4-methoxybenzyl alcohol and vanillyl alcohol by TiO2 catalysts. Journal of Environmental Chemical Engineering, 2021, 9, 105308.	3.3	16
52	Heterogeneous Photocatalysis. , 2018, , 1-43.		15
53	Photoactivity of nanostructured TiO2 catalysts in aqueous system and their surface acid-base, bulk and textural properties. Research on Chemical Intermediates, 2007, 33, 465-479.	1.3	13
54	Preparation and Photoactivity of Nanocrystalline TiO2 Powders Obtained by Thermohydrolysis of TiOSO4. Catalysis Letters, 2013, 143, 844-852.	1.4	13

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55	Coupling of membrane and photocatalytic technologies for selective formation of high added value chemicals. Catalysis Today, 2020, 340, 128-144.	2.2	13
56	Sequential biological and photocatalysis based treatments for shipboard slop purification: A pilot plant investigation. Chemical Engineering Research and Design, 2019, 125, 288-296.	2.7	11
57	Preparation of Catalysts and Photocatalysts Used for Similar Processes. , 2019, , 25-56.		10
58	Catalytic and Photothermo-catalytic Applications of TiO2-CoOx Composites. Journal of Photocatalysis, 2020, 1, 3-15.	0.4	9
59	Junction Effect on the Photocatalytic Activity of Mixed-Phase TiO2 Nanoparticles. ECS Transactions, 2010, 25, 29-35.	0.3	6
60	TiO2 photocatalysts prepared by thermohydrolysis of TiCl4 in aqueous solutions. Studies in Surface Science and Catalysis, 2010, 175, 225-228.	1.5	6
61	Aqueous selective photocatalytic oxidation of salicyl alcohol by TiO2 catalysts: Influence of some physico-chemical features. Catalysis Today, 2021, 380, 16-24.	2.2	5
62	Heterogeneous photocatalytic aqueous succinic acid formation from maleic acid reduction. Chemical Engineering Journal, 2022, 431, 134131.	6.6	5
63	Catalytic applications of TiO2. , 2021, , 637-679.		3
64	Synthesis and characterization of titanium dioxide and titanium dioxideâ€“based materials. , 2021, , 87-165.		3
65	Semiconductor mixed oxides as innovative materials for the photocatalytic removal of organic pollutants. , 2020, , 385-430.		1
66	Water Depollution by Advanced Oxidation Technologies. Nanotechnology in the Life Sciences, 2020, , 501-537.	0.4	1
67	(Photo)electrocatalytic Versus Heterogeneous Photocatalytic Carbon Dioxide Reduction. ChemPhotoChem, 2021, 5, 766-766.	1.5	0