Marisol Faraldos

List of Publications by Year
in descending order

53 papers	1,830 citations	257450 24 h-index	265206 42 g-index
53 all docs	53 docs citations	53 times ranked	2632 citing authors

#	Article	IF	Citations
1	Bare TiO 2 and graphene oxide TiO 2 photocatalysts on the degradation of selected pesticides and influence of the water matrix. Applied Surface Science, 2017, 416, 1013-1021.	6.1	161
2	Catalytic wet peroxide oxidation of phenol over Fe/AC catalysts: Influence of iron precursor and activated carbon surface. Applied Catalysis B: Environmental, 2009, 86, 69-77.	20.2	149
3	Comparison of Silica-Supported MoO3and V2O5Catalysts in the Selective Partial Oxidation of Methane. Journal of Catalysis, 1996, 160, 214-221.	6.2	103
4	Antimicrobial and antibiofilm efficacy of self-cleaning surfaces functionalized by TiO2 photocatalytic nanoparticles against Staphylococcus aureus and Pseudomonas putida. Journal of Hazardous Materials, 2017, 340, 160-170.	12.4	100
5	Environmental applications of titania-graphene photocatalysts. Catalysis Today, 2017, 285, 13-28.	4.4	95
6	TiO2 and TiO2â€“SiO2 coated cement: Comparison of mechanic and photocatalytic properties. Applied Catalysis B: Environmental, 2015, 178, 155-164.	20.2	88
7	Photocatalytic hydrophobic concrete coatings to combat air pollution. Catalysis Today, 2016, 259, 228-236.	4.4	75
8	Partial oxidation of methane to formaldehyde on silica-supported transition metal oxide catalysts. Catalysis Today, 1997, 33, 73-83.	4.4	61
9	Role of the Activated Carbon Surface on Catalytic Wet Peroxide Oxidation. Industrial & Engineering Chemistry Research, 2008, 47, 8166-8174.	3.7	61
10	Influence of the level of dealumination on the selective adsorption of olefins and paraffins and its implication on hydrogen transfer reactions during catalytic cracking on USY zeolites. Applied Catalysis, 1989, 47, 125-133.	0.8	60
11	Study of application of titania catalysts on solar photocatalysis: Influence of type of pollutants and water matrices. Chemical Engineering Journal, 2016, 291, 64-73.	12.7	59
12	Hydrogen transfer on USY zeolites during gas oil cracking: Influence of the adsorption characteristics of the zeolite catalysts. Journal of Catalysis, 1990, 122, 230-239.	6.2	57
13	Solar photocatalytic degradation of pesticides over TiO2-rGO nanocomposites at pilot plant scale. Science of the Total Environment, 2020, 737, 140286.	8.0	56
14	Antimicrobial surfaces with self-cleaning properties functionalized by photocatalytic ZnO electrosprayed coatings. Journal of Hazardous Materials, 2019, 369, 665-673.	12.4	54
15	On the optimization of activated carbon-supported iron catalysts in catalytic wet peroxide oxidation process. Applied Catalysis B: Environmental, 2016, 181, 249-259.	20.2	53
16	Influence of TiO2 optical parameters in a slurry photocatalytic reactor: Kinetic modelling. Applied Catalysis B: Environmental, 2017, 200, 164-173.	20.2	52
17	Analysis of photoefficiency in TiO2 aqueous suspensions: Effect of titania hydrodynamic particle size and catalyst loading on their optical properties. Applied Catalysis B: Environmental, 2018, 221, 1-8.	20.2	49
18	Photocatalyst performance in wastewater treatment applications: Towards the role of TiO2 properties. Molecular Catalysis, 2017, 434, 167-174.	2.0	44

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19	Antibacterial surfaces prepared by electrospray coating of photocatalytic nanoparticles. Chemical Engineering Journal, 2018, 334, 1108-1118.	12.7	42
20	Improved mineralization by combined advanced oxidation processes. Chemical Engineering Journal, 2011, 174, 134-142.	12.7	37
21	Photocatalytic degradation of phenol and isoproturon: Effect of adding an activated carbon to titania catalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 287, 8-18.	3.9	35
22	Strong effect of light scattering by distribution of TiO2 particle aggregates on photocatalytic efficiency in aqueous suspensions. Chemical Engineering Journal, 2021, 403, 126186.	12.7	34
23	On Oxygen Chemisorption for Characterization of Silica-Supported Vanadium Oxide Catalysts. Journal of Catalysis, 1997, 168, 110-116.	6.2	26
24	Effect of water composition on the photocatalytic removal of pesticides with different TiO2 catalysts. Environmental Science and Pollution Research, 2014, 21, 12233-12240.	5.3	25
25	Biocide mechanism of highly efficient and stable antimicrobial surfaces based on zinc oxideâ€“reduced graphene oxide photocatalytic coatings. Journal of Materials Chemistry B, 2020, 8, 8294-8304.	5.8	25
26	Influence of sulphate doping on Pd/zirconia based catalysts for the selective catalytic reduction of nitrogen oxides with methane. Applied Catalysis B: Environmental, 2007, 71, 254-261.	20.2	23
27	Degradation of organochlorinated pollutants in water by catalytic hydrodechlorination and photocatalysis. Catalysis Today, 2016, 266, 168-174.	4.4	23
28	Defining the role of substituents on adsorption and photocatalytic degradation of phenolic compounds. Journal of Environmental Chemical Engineering, 2017, 5, 4612-4620.	6.7	21
29	An approach on the comparative behavior of chloro / nitro substituted phenols photocatalytic degradation in water. Journal of Environmental Chemical Engineering, 2019, 7, 103051.	6.7	18
30	A highly active silica(silicon)-supported vanadia catalyst for C1 oxygenates and hydrocarbon production from partial oxidation of methane. Catalysis Letters, 1995, 33, 279-289.	2.6	17
31	The precision of porosity measurements: Effects of sample pre-treatment on porosity measurements of modern and archaeological bone. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 266, 175-182.	2.3	17
32	Optimizing P25-rGO composites for pesticides degradation: Elucidation of photo-mechanism. Catalysis Today, 2019, 328, 172-177.	4.4	15
33	A Novel Method to Prepare Zeolites with Hierarchical Porosity. Advanced Engineering Materials, 2005, 7, 858-861.	3.5	12
34	Impact of water matrix and oxidant agent on the solar assisted photodegradation of a complex mix of pesticides over titania-reduced graphene oxide nanocomposites. Catalysis Today, 2021, 380, 114-124.	4.4	10
35	TiO2-reduced graphene oxide nanocomposites: Microsecond charge carrier kinetics. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 386, 112112.	3.9	9
36	Eco-friendly mechanochemical synthesis of titania-graphene nanocomposites for pesticide photodegradation. Separation and Purification Technology, 2022, 289, 120638.	7.9	8

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37	Critical review on the use of photocatalysis and photoelectrocatalysis to create antimicrobial surfaces. Current Opinion in Chemical Engineering, 2021, 34, 100762.	7.8	8
38	High performance of electrosprayed graphene oxide/TiO2/Ce-TiO2 photoanodes for photoelectrocatalytic inactivation of S. aureus. Electrochimica Acta, 2021, 395, 139203.	5.2	7
39	Lead-free low-melting-point glass as bonding agent for TiO2 nanoparticles. Ceramics International, 2021, 47, 6114-6120.	4.8	5
40	Zirconium-based Metal-Organic Frameworks for highly efficient solar light-driven photoelectrocatalytic disinfection. Separation and Purification Technology, 2022, 285, 120351.	7.9	5
41	Bone Diagenesis at Azokh Caves. Vertebrate Paleobiology and Paleoanthropology, 2016, , 251-269.	0.5	4
42	Multifunctional photocatalytic coatings for construction materials. , 2019, , 557-589.		4
43	Role of surrounding crystallization media in TiO2 polymorphs coexistence and the effect on AOPs performance. Molecular Catalysis, 2020, 493, 111059.	2.0	4
44	Photo-mechanism of phenolic pollutants in natural water: Effect of salts. Separation and Purification Technology, 2020, , 116868.	7.9	4
45	Performance of Iron-Functionalized Activated Carbon Catalysts (Fe/AC-f) on CWPO Wastewater Treatment. Catalysts, 2021, 11, 337.	3.5	4
46	Solar-assisted photodegradation of isoproturon over easily recoverable titania catalysts. Environmental Science and Pollution Research, 2017, 24, 7821-7828.	5.3	3
47	Assessment of an intrinsic kinetic model for TiO₂â€“formic acid photodegradation using LEDs as a radiation source. Catalysis Science and Technology, 2020, 10, 6198-6211.	4.1	3
48	Structural Features of Silica-Supported Vanadia Catalysts and Their Relevance in the Selective Oxidation of Methane to Formaldehyde. , 1995, , 241-247.		2
49	Photocatalytic Degradation of Alachlor over Titania-Reduced Graphene Oxide Nanocomposite: Intrinsic Kinetic Model and Reaction Pathways. Industrial & Engineering Chemistry Research, 2021, 60, 18907-18917.	3.7	2
50	Sulfided NiMo/Clinoptilolite Catalysts for Selective Sulfur Removal from Naphtha Stream without Olefin Hydrogenation. , 2020, , .		1
51	Methodologies of synthesis of titania and titania-graphene photocatalysts. , 2021, , 83-94.		0
52	Chapter 8 Degradation of Endocrine Disruptors, Pesticides, and Pharmaceuticals Using Photocatalysis. , 2021, , 257-342.		0
53	Zirconium-Based Metal-Organic Frameworks for Highly Efficient Solar Light-Driven Photoelectrocatalytic Disinfection. SSRN Electronic Journal, 0, , .	0.4	0