Ana Bahamonde

List of Publications by Year
in descending order

83 papers	3,172 citations	136950 32 h-index	161849 54 g-index
84 all docs	84 docs citations	84 times ranked	4384 citing authors

#	Article	IF	Citations
1	Photogenerated Defects in Shape-Controlled TiO₂ Anatase Nanocrystals: A Probe To Evaluate the Role of Crystal Facets in Photocatalytic Processes. Journal of the American Chemical Society, 2011, 133, 17652-17661.	13.7	319
2	Structure and activity of nanosized iron-doped anatase TiO2 catalysts for phenol photocatalytic degradation. Applied Catalysis B: Environmental, 2007, 72, 11-17.	20.2	254
3	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
4	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
5	Influence of the structural and surface characteristics of activated carbon on the catalytic decomposition of hydrogen peroxide. Applied Catalysis A: General, 2011, 402, 146-155.	4.3	122
6	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
7	Environmental applications of titania-graphene photocatalysts. Catalysis Today, 2017, 285, 13-28.	4.4	95
8	TiO2 and TiO2â€“SiO2 coated cement: Comparison of mechanic and photocatalytic properties. Applied Catalysis B: Environmental, 2015, 178, 155-164.	20.2	88
9	Ilmenite (FeTiO 3) as low cost catalyst for advanced oxidation processes. Journal of Environmental Chemical Engineering, 2016, 4, 542-548.	6.7	72
10	Optimizing calcination temperature of Fe/activated carbon catalysts for CWPO. Catalysis Today, 2009, 143, 341-346.	4.4	66
11	Gas-phase photo-assisted mineralization of volatile organic compounds by monolithic titania catalysts. Applied Catalysis B: Environmental, 1998, 17, 75-88.	20.2	62
12	Photocatalytic destruction of toluene and xylene at gas phase on a titania based monolithic catalyst. Catalysis Today, 1996, 29, 437-442.	4.4	61
13	Role of the Activated Carbon Surface on Catalytic Wet Peroxide Oxidation. Industrial & Engineering Chemistry Research, 2008, 47, 8166-8174.	3.7	61
14	Influence of TIO2-rGO optical properties on the photocatalytic activity and efficiency to photodegrade an emerging pollutant. Applied Catalysis B: Environmental, 2019, 246, 1-11.	20.2	60
15	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
16	Solar photocatalytic degradation of pesticides over TiO2-rGO nanocomposites at pilot plant scale. Science of the Total Environment, 2020, 737, 140286.	8.0	56
17	Antimicrobial surfaces with self-cleaning properties functionalized by photocatalytic ZnO electrosprayed coatings. Journal of Hazardous Materials, 2019, 369, 665-673.	12.4	54
18	Influence of temperature on gas-phase photo-assisted mineralization of TCE using tubular and monolithic catalysts. Catalysis Today, 1999, 54, 369-377.	4.4	53

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19	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
20	Influence of TiO2 optical parameters in a slurry photocatalytic reactor: Kinetic modelling. Applied Catalysis B: Environmental, 2017, 200, 164-173.	20.2	52
21	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
22	Kinetic study of the selective reduction of nitric oxide over vanadiaâ€"tungstaâ€"titania/sepiolite catalyst. Applied Catalysis B: Environmental, 1994, 5, 117-131.	20.2	44
23	Photocatalyst performance in wastewater treatment applications: Towards the role of TiO2 properties. Molecular Catalysis, 2017, 434, 167-174.	2.0	44
24	Antibacterial surfaces prepared by electrospray coating of photocatalytic nanoparticles. Chemical Engineering Journal, 2018, 334, 1108-1118.	12.7	42
25	Nature and photoreactivity of TiO2-rGO nanocomposites in aqueous suspensions under UV-A irradiation. Applied Catalysis B: Environmental, 2019, 241, 375-384.	20.2	41
26	Phenol photodegradation with oxygen and hydrogen peroxide over TiO2 and Fe-doped TiO2. Catalysis Today, 2009, 143, 247-252.	4.4	39
27	Influence of phosphorus in vanadium-containing catalysts for NOx removal. Applied Catalysis, 1989, 55, 151-164.	0.8	37
28	Pillared clay and zirconia-based monolithic catalysts for selective catalytic reduction of nitric oxide by methane. Catalysis Today, 2001, 69, 233-239.	4.4	37
29	Improved mineralization by combined advanced oxidation processes. Chemical Engineering Journal, 2011, 174, 134-142.	12.7	37
30	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
31	Treatment of hospital wastewater through the CWPO-Photoassisted process catalyzed by ilmenite. Journal of Environmental Chemical Engineering, 2017, 5, 4337-4343.	6.7	35
32	Influence of iron leaching and oxidizing agent employed on solar photodegradation of phenol over nanostructured iron-doped titania catalysts. Applied Catalysis B: Environmental, 2014, 144, 269-276.	20.2	34
33	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
34	Influence of the binder on the properties of catalysts based on titanium-vanadium oxides. Journal of Materials Science, 1993, 28, 4113-4118.	3.7	31
35	Modified ilmenite as catalyst for CWPO-Photoassisted process under LED light. Chemical Engineering Journal, 2017, 318, 89-94.	12.7	31
36	Optimization of H2O2 use during the photocatalytic degradation of ethidium bromide with TiO2 and iron-doped TiO2 catalysts. Applied Catalysis B: Environmental, 2011, 102, 85-93.	20.2	30

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37	Sulfonamides photoassisted oxidation treatments catalyzed by ilmenite. Chemosphere, 2017, 180, 523-530.	8.2	29
38	Photocatalytic degradation of ethidium bromide over titania in aqueous solutions. Applied Catalysis B: Environmental, 2007, 76, 395-402.	20.2	27
39	An Experimental and Theoretical Investigation of the Behavior of a Monolithic Tiâˆ'Vâˆ'Wâˆ'Sepiolite Catalyst in the Reduction of NOxwith NH3. Industrial & Engineering Chemistry Research, 1996, 35, 2516-2521.	3.7	25
40	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
41	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
42	Solar light assisted photodegradation of ethidium bromide over titania-based catalysts. Catalysis Today, 2007, 129, 79-85.	4.4	24
43	High surface area monoliths based on pillared clay materials as carriers for catalytic processes. Applied Clay Science, 2005, 29, 125-136.	5.2	23
44	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
45	Degradation of organochlorinated pollutants in water by catalytic hydrodechlorination and photocatalysis. Catalysis Today, 2016, 266, 168-174.	4.4	23
46	Selective catalytic reduction of NOx by methane in excess oxygen over Rh based aluminium pillared clays. Applied Catalysis B: Environmental, 2006, 64, 161-170.	20.2	22
47	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
48	New insights on solar photocatalytic degradation of phenol over Fe-TiO2 catalysts: Photo-complex mechanism of iron lixiviates. Applied Catalysis B: Environmental, 2009, 93, 96-105.	20.2	20
49	Selectivity of hydrogen peroxide decomposition towards hydroxyl radicals in catalytic wet peroxide oxidation (CWPO) over Fe/AC catalysts. Water Science and Technology, 2010, 61, 2769-2778.	2.5	20
50	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
51	Solar light assisted photodegradation of phenol with hydrogen peroxide over iron-doped titania catalysts: Role of iron leached/readsorbed species. Applied Catalysis B: Environmental, 2011, 108-109, 168-176.	20.2	17
52	TiO2-rGO photocatalytic degradation of an emerging pollutant: kinetic modelling and determination of intrinsic kinetic parameters. Journal of Environmental Chemical Engineering, 2019, 7, 103406.	6.7	17
53	Measurement of the effective diffusivity for a vanadia-tungsta-titania/sepiolite catalyst for SCR of NOx. Applied Catalysis B: Environmental, 1996, 8, 299-314.	20.2	16
54	Optimizing P25-rGO composites for pesticides degradation: Elucidation of photo-mechanism. Catalysis Today, 2019, 328, 172-177.	4.4	15

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55	Two-bed catalytic system for NOx/SOx removal. Catalysis Today, 1998, 42, 85-92.	4.4	14
56	Characterization of alumina:sepiolite monoliths for use as industrial catalyst supports. Journal of Materials Science, 1994, 29, 5927-5933.	3.7	13
57	The use of sepiolite in the preparation of titania monoliths for the manufacture of industrial catalysts. Studies in Surface Science and Catalysis, 1995, 91, 755-764.	1.5	13
58	Influence of zirconia raw materials on the development of DeNOx monolithic catalysts. Applied Catalysis B: Environmental, 2003, 44, 333-346.	20.2	12
59	Influence of the operation time on the performance of a new SCR monolithic catalyst. Catalysis Today, 1996, 27, 9-13.	4.4	10
60	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
61	TiO2-reduced graphene oxide nanocomposites: Microsecond charge carrier kinetics. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 386, 112112.	3.9	9
62	Catalyst for NOx removal in nitric-acid plant gaseous effluents. Atmospheric Environment Part A General Topics, 1993, 27, 443-447.	1.3	8
63	PILC-based monolithic catalysts for the selective catalytic reduction of nitrogen oxides by methane in oxygen excess. Catalysis Today, 2005, 107-108, 192-199.	4.4	8
64	Elucidation of the photocatalytic-mechanism of phenolic compounds. Journal of Environmental Chemical Engineering, 2018, 6, 5712-5719.	6.7	8
65	Eco-friendly mechanochemical synthesis of titania-graphene nanocomposites for pesticide photodegradation. Separation and Purification Technology, 2022, 289, 120638.	7.9	8
66	Critical review on the use of photocatalysis and photoelectrocatalysis to create antimicrobial surfaces. Current Opinion in Chemical Engineering, 2021, 34, 100762.	7.8	8
67	Influence of the process parameters on the extrusion of ceramic catalysts.. Studies in Surface Science and Catalysis, 1996, 101, 1359-1368.	1.5	7
68	Mass transfer influences on the design of selective catalytic reduction (SCR) monolithic reactors. Chemical Engineering and Processing: Process Intensification, 1998, 37, 117-124.	3.6	7
69	High performance of electrosprayed graphene oxide/TiO2/Ce-TiO2 photoanodes for photoelectrocatalytic inactivation of S. aureus. Electrochimica Acta, 2021, 395, 139203.	5.2	7
70	Titania based platinum monolithic catalysts for lean-burn DeNOx process. Applied Catalysis B: Environmental, 1998, 19, 1-7.	20.2	6
71	Lead-free low-melting-point glass as bonding agent for TiO2 nanoparticles. Ceramics International, 2021, 47, 6114-6120.	4.8	5
72	Zirconium-based Metal-Organic Frameworks for highly efficient solar light-driven photoelectrocatalytic disinfection. Separation and Purification Technology, 2022, 285, 120351.	7.9	5

#	ARTICLE	IF	CITATIONS
73	Multifunctional photocatalytic coatings for construction materials. , 2019, , 557-589.		4
74	Role of surrounding crystallization media in TiO2 polymorphs coexistence and the effect on AOPs performance. Molecular Catalysis, 2020, 493, 111059.	2.0	4
75	Photo-mechanism of phenolic pollutants in natural water: Effect of salts. Separation and Purification Technology, 2020, , 116868.	7.9	4
76	Performance of Iron-Functionalized Activated Carbon Catalysts (Fe/AC-f) on CWPO Wastewater Treatment. Catalysts, 2021, 11, 337.	3.5	4
77	Solar-assisted photodegradation of isoproturon over easily recoverable titania catalysts. Environmental Science and Pollution Research, 2017, 24, 7821-7828.	5.3	3
78	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
79	Solarized photoreactors for degradation of chlorinated organics in air. European Physical Journal Special Topics, 1999, 09, Pr3-271-Pr3-276.	0.2	2
80	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
81	The performance of a new monolithic SCR catalyst in a life test with real exhaust gases. Effect on the textural nature. Coal Science and Technology, 1995, , 1807-1810.	0.0	0
82	Incorporated Ternary Monolithic Catalysts for Nitric Oxide Removal. Reaction Kinetics and Catalysis Letters, 2000, 69, 129-136.	0.6	0
83	Methodologies of synthesis of titania and titania-graphene photocatalysts. , 2021, , 83-94.		0