Ana Rey

List of Publications by Year
in descending order

40 papers	1,761 citations	201575 27 h-index	289141 40 g-index
40 all docs	40 docs citations	40 times ranked	2319 citing authors

#	Article	IF	Citations
1	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.	10.8	149
2	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.	2.2	122
3	Boron doped TiO2 catalysts for photocatalytic ozonation of aqueous mixtures of common pesticides: Diuron, o-phenylphenol, MCPA and terbuthylazine. Applied Catalysis B: Environmental, 2015, 178, 74-81.	10.8	103
4	Treatment of highly polluted industrial wastewater by means of sequential aerobic biological oxidation-ozone based AOPs. Chemical Engineering Journal, 2019, 361, 89-98.	6.6	91
5	WO3â€“TiO2 based catalysts for the simulated solar radiation assisted photocatalytic ozonation of emerging contaminants in a municipal wastewater treatment plant effluent. Applied Catalysis B: Environmental, 2014, 154-155, 274-284.	10.8	87
6	Enhanced activity and reusability of TiO2 loaded magnetic activated carbon for solar photocatalytic ozonation. Applied Catalysis B: Environmental, 2014, 144, 96-106.	10.8	82
7	Optimizing calcination temperature of Fe/activated carbon catalysts for CWPO. Catalysis Today, 2009, 143, 341-346.	2.2	66
8	Role of the Activated Carbon Surface on Catalytic Wet Peroxide Oxidation. Industrial & Engineering Chemistry Research, 2008, 47, 8166-8174.	1.8	61
9	Application of solar photocatalytic ozonation for the degradation of emerging contaminants in water in a pilot plant. Chemical Engineering Journal, 2015, 260, 399-410.	6.6	59
10	Simulated solar-light assisted photocatalytic ozonation of metoprolol over titania-coated magnetic activated carbon. Applied Catalysis B: Environmental, 2012, 111-112, 246-253.	10.8	55
11	On the optimization of activated carbon-supported iron catalysts in catalytic wet peroxide oxidation process. Applied Catalysis B: Environmental, 2016, 181, 249-259.	10.8	53
12	On ozone-photocatalysis synergism in black-light induced reactions: Oxidizing species production in photocatalytic ozonation versus heterogeneous photocatalysis. Chemical Engineering Journal, 2012, 204-206, 131-140.	6.6	52
13	Reaction mechanism and kinetics of DEET visible light assisted photocatalytic ozonation with WO3 catalyst. Applied Catalysis B: Environmental, 2017, 202, 460-472.	10.8	49
14	Critical aspects of the stability and catalytic activity of MIL-100(Fe) in different advanced oxidation processes. Separation and Purification Technology, 2021, 255, 117660.	3.9	49
15	Removal of emerging contaminants from municipal WWTP secondary effluents by solar photocatalytic ozonation. A pilot-scale study. Separation and Purification Technology, 2015, 149, 132-139.	3.9	48
16	Influence of structural properties on the activity of WO 3 catalysts for visible light photocatalytic ozonation. Chemical Engineering Science, 2015, 126, 80-90.	1.9	44
17	Solar photo-ozonation: A novel treatment method for the degradation of water pollutants. Journal of Hazardous Materials, 2016, 317, 36-43.	6.5	44
18	Application of solar photocatalytic ozonation in water treatment using supported TiO2. Applied Catalysis B: Environmental, 2019, 254, 237-245.	10.8	44

#	Article	IF	Citations
19	Insights into the removal of terbuthylazine from aqueous solution by several treatment methods. Water Research, 2016, 98, 334-343.	5.3	40
20	Solar or UVA-Visible Photocatalytic Ozonation of Water Contaminants. Molecules, 2017, 22, 1177.	1.7	38
21	Improved mineralization by combined advanced oxidation processes. Chemical Engineering Journal, 2011, 174, 134-142.	6.6	37
22	Pd/TiO2-WO3 photocatalysts for hydrogen generation from water-methanol mixtures. Applied Surface Science, 2018, 455, 570-580.	3.1	37
23	Nanostructured CeO 2 as catalysts for different AOPs based in the application of ozone and simulated solar radiation. Catalysis Today, 2017, 280, 74-79.	2.2	34
24	TiO2 photocatalytic oxidation of a mixture of emerging contaminants: A kinetic study independent of radiation absorption based on the direct-indirect model. Chemical Engineering Journal, 2018, 339, 369-380.	6.6	32
25	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.	10.8	30
26	Kinetic Studies on Black Light Photocatalytic Ozonation of Diclofenac and Sulfamethoxazole in Water. Industrial & Engineering Chemistry Research, 2012, 51, 4533-4544.	1.8	29
27	Free Radical and Direct Ozone Reaction Competition to Remove Priority and Pharmaceutical Water Contaminants with Single and Hydrogen Peroxide Ozonation Systems. Ozone: Science and Engineering, 2018, 40, 251-265.	1.4	29
28	Visible light photocatalytic ozonation of DEET in the presence of different forms of WO3. Catalysis Today, 2015, 252, 100-106.	2.2	28
29	Simulated solar photocatalytic ozonation of contaminants of emerging concern and effluent organic matter in secondary effluents by a reusable magnetic catalyst. Chemical Engineering Journal, 2020, 398, 125642.	6.6	25
30	Removal of Organic Micropollutants from a Municipal Wastewater Secondary Effluent by UVA-LED Photocatalytic Ozonation. Catalysts, 2019, 9, 472.	1.6	22
31	Insights into the Stability and Activity of MIL-53(Fe) in Solar Photocatalytic Oxidation Processes in Water. Catalysts, 2021, 11, 448.	1.6	22
32	The Role of Catalytic Ozonation Processes on the Elimination of DBPs and Their Precursors in Drinking Water Treatment. Catalysts, 2021, 11, 521.	1.6	21
33	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.	1.2	20
34	Post-treatment of real municipal wastewater effluents by means of granular activated carbon (GAC) based catalytic processes: A focus on abatement of pharmaceutically active compounds. Water Research, 2021, 192, 116833.	5.3	18
35	Ozonation of 4â€chloroâ€2â€methylphenoxyacetic acid (<scp>MCPA</scp>) in an activated sludge system. Journal of Chemical Technology and Biotechnology, 2014, 89, 1219-1227.	1.6	12
36	Photocatalytic hydrogen production from water-methanol and -glycerol mixtures using Pd/TiO2(-WO3) catalysts and validation in a solar pilot plant. International Journal of Hydrogen Energy, 2021, 46, 36152-36166.	3.8	11

#	Article	IF	Citations
37	Impact of TiO2/UVA photocatalysis on THM formation potential. Catalysis Today, 2018, 313, 167-174.	2.2	7
38	Role of surrounding crystallization media in TiO2 polymorphs coexistence and the effect on AOPs performance. Molecular Catalysis, 2020, 493, 111059.	1.0	4
39	Performance of Iron-Functionalized Activated Carbon Catalysts (Fe/AC-f) on CWPO Wastewater Treatment. Catalysts, 2021, 11, 337.	1.6	4
40	Green Synthesis of Magnetite-Based Catalysts for Solar-Assisted Catalytic Wet Peroxide Oxidation. Catalysts, 2022, 12, 271.	1.6	3