

Ana Rey

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,761
citations

201674

27
h-index

289244

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. <i>Applied Catalysis B: Environmental</i> , 2009, 86, 69-77.	20.2	149
2	Influence of the structural and surface characteristics of activated carbon on the catalytic decomposition of hydrogen peroxide. <i>Applied Catalysis A: General</i> , 2011, 402, 146-155.	4.3	122
3	Boron doped TiO ₂ catalysts for photocatalytic ozonation of aqueous mixtures of common pesticides: Diuron, o-phenylphenol, MCPA and terbuthylazine. <i>Applied Catalysis B: Environmental</i> , 2015, 178, 74-81.	20.2	103
4	Treatment of highly polluted industrial wastewater by means of sequential aerobic biological oxidation-ozone based AOPs. <i>Chemical Engineering Journal</i> , 2019, 361, 89-98.	12.7	91
5	WO ₃ -TiO ₂ based catalysts for the simulated solar radiation assisted photocatalytic ozonation of emerging contaminants in a municipal wastewater treatment plant effluent. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 274-284.	20.2	87
6	Enhanced activity and reusability of TiO ₂ loaded magnetic activated carbon for solar photocatalytic ozonation. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 96-106.	20.2	82
7	Optimizing calcination temperature of Fe/activated carbon catalysts for CWPO. <i>Catalysis Today</i> , 2009, 143, 341-346.	4.4	66
8	Role of the Activated Carbon Surface on Catalytic Wet Peroxide Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 8166-8174.	3.7	61
9	Application of solar photocatalytic ozonation for the degradation of emerging contaminants in water in a pilot plant. <i>Chemical Engineering Journal</i> , 2015, 260, 399-410.	12.7	59
10	Simulated solar-light assisted photocatalytic ozonation of metoprolol over titania-coated magnetic activated carbon. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 246-253.	20.2	55
11	On the optimization of activated carbon-supported iron catalysts in catalytic wet peroxide oxidation process. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 249-259.	20.2	53
12	On ozone-photocatalysis synergism in black-light induced reactions: Oxidizing species production in photocatalytic ozonation versus heterogeneous photocatalysis. <i>Chemical Engineering Journal</i> , 2012, 204-206, 131-140.	12.7	52
13	Reaction mechanism and kinetics of DEET visible light assisted photocatalytic ozonation with WO ₃ catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 460-472.	20.2	49
14	Critical aspects of the stability and catalytic activity of MIL-100(Fe) in different advanced oxidation processes. <i>Separation and Purification Technology</i> , 2021, 255, 117660.	7.9	49
15	Removal of emerging contaminants from municipal WWTP secondary effluents by solar photocatalytic ozonation. A pilot-scale study. <i>Separation and Purification Technology</i> , 2015, 149, 132-139.	7.9	48
16	Influence of structural properties on the activity of WO ₃ catalysts for visible light photocatalytic ozonation. <i>Chemical Engineering Science</i> , 2015, 126, 80-90.	3.8	44
17	Solar photo-ozonation: A novel treatment method for the degradation of water pollutants. <i>Journal of Hazardous Materials</i> , 2016, 317, 36-43.	12.4	44
18	Application of solar photocatalytic ozonation in water treatment using supported TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2019, 254, 237-245.	20.2	44

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19	Insights into the removal of terbuthylazine from aqueous solution by several treatment methods. <i>Water Research</i> , 2016, 98, 334-343.	11.3	40
20	Solar or UVA-Visible Photocatalytic Ozonation of Water Contaminants. <i>Molecules</i> , 2017, 22, 1177.	3.8	38
21	Improved mineralization by combined advanced oxidation processes. <i>Chemical Engineering Journal</i> , 2011, 174, 134-142.	12.7	37
22	Pd/TiO ₂ -WO ₃ photocatalysts for hydrogen generation from water-methanol mixtures. <i>Applied Surface Science</i> , 2018, 455, 570-580.	6.1	37
23	Nanostructured CeO ₂ as catalysts for different AOPs based in the application of ozone and simulated solar radiation. <i>Catalysis Today</i> , 2017, 280, 74-79.	4.4	34
24	TiO ₂ photocatalytic oxidation of a mixture of emerging contaminants: A kinetic study independent of radiation absorption based on the direct-indirect model. <i>Chemical Engineering Journal</i> , 2018, 339, 369-380.	12.7	32
25	Optimization of H ₂ O ₂ use during the photocatalytic degradation of ethidium bromide with TiO ₂ and iron-doped TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 85-93.	20.2	30
26	Kinetic Studies on Black Light Photocatalytic Ozonation of Diclofenac and Sulfamethoxazole in Water. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4533-4544.	3.7	29
27	Free Radical and Direct Ozone Reaction Competition to Remove Priority and Pharmaceutical Water Contaminants with Single and Hydrogen Peroxide Ozonation Systems. <i>Ozone: Science and Engineering</i> , 2018, 40, 251-265.	2.5	29
28	Visible light photocatalytic ozonation of DEET in the presence of different forms of WO ₃ . <i>Catalysis Today</i> , 2015, 252, 100-106.	4.4	28
29	Simulated solar photocatalytic ozonation of contaminants of emerging concern and effluent organic matter in secondary effluents by a reusable magnetic catalyst. <i>Chemical Engineering Journal</i> , 2020, 398, 125642.	12.7	25
30	Removal of Organic Micropollutants from a Municipal Wastewater Secondary Effluent by UVA-LED Photocatalytic Ozonation. <i>Catalysts</i> , 2019, 9, 472.	3.5	22
31	Insights into the Stability and Activity of MIL-53(Fe) in Solar Photocatalytic Oxidation Processes in Water. <i>Catalysts</i> , 2021, 11, 448.	3.5	22
32	The Role of Catalytic Ozonation Processes on the Elimination of DBPs and Their Precursors in Drinking Water Treatment. <i>Catalysts</i> , 2021, 11, 521.	3.5	21
33	Selectivity of hydrogen peroxide decomposition towards hydroxyl radicals in catalytic wet peroxide oxidation (CWPO) over Fe/AC catalysts. <i>Water Science and Technology</i> , 2010, 61, 2769-2778.	2.5	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. <i>Water Research</i> , 2021, 192, 116833.	11.3	18
35	Ozonation of 4-chloro-2-methylphenoxyacetic acid (MCPA) in an activated sludge system. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1219-1227.	3.2	12
36	Photocatalytic hydrogen production from water-methanol and -glycerol mixtures using Pd/TiO ₂ (-WO ₃) catalysts and validation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36152-36166.	7.1	11

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37	Impact of TiO ₂ /UVA photocatalysis on THM formation potential. Catalysis Today, 2018, 313, 167-174.	4.4	7
38	Role of surrounding crystallization media in TiO ₂ polymorphs coexistence and the effect on AOPs performance. Molecular Catalysis, 2020, 493, 111059.	2.0	4
39	Performance of Iron-Functionalized Activated Carbon Catalysts (Fe/AC-f) on CWPO Wastewater Treatment. Catalysts, 2021, 11, 337.	3.5	4
40	Green Synthesis of Magnetite-Based Catalysts for Solar-Assisted Catalytic Wet Peroxide Oxidation. Catalysts, 2022, 12, 271.	3.5	3