Jose A Casas

List of Publications by Citations

186 papers	8,838 citations	48 h-index	87 g-index
188 ext. papers	9,811 ext. citations	10 avg, IF	6.33 L-index

#	Paper	IF	Citations
186	Xanthan gum: production, recovery, and properties. *Biotechnology Advances*, **2000**, 18, 549-79	17.8	923
185	Chemical pathway and kinetics of phenol oxidation by Fenton's reagent. *Environmental Science & Technology*, **2005**, 39, 9295-302	10.3	491
184	Preparation of magnetite-based catalysts and their application in heterogeneous Fenton oxidation A review. *Applied Catalysis B: Environmental*, **2015**, 176-177, 249-265	21.8	470
183	An overview of the application of Fenton oxidation to industrial wastewaters treatment. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 1323-1338	3.5	467
182	Catalytic wet peroxide oxidation of phenol with a Fe/active carbon catalyst. *Applied Catalysis B: Environmental*, **2006**, 65, 261-268	21.8	269
181	Application of Fenton oxidation to cosmetic wastewaters treatment. *Journal of Hazardous Materials*, **2007**, 143, 128-34	12.8	202
180	Trends in the Intensification of the Fenton Process for Wastewater Treatment: An Overview. *Critical Reviews in Environmental Science and Technology*, **2015**, 45, 2611-2692	11.1	148
179	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	21.8	138
178	Evolution of toxicity upon wet catalytic oxidation of phenol. *Environmental Science & Technology*, **2004**, 38, 133-8	10.3	135
177	Intensification of the Fenton Process by Increasing the Temperature. *Industrial & Engineering Chemistry Research*, **2011**, 50, 866-870	3.9	131
176	Viscosity of guar gum and xanthan/guar gum mixture solutions. *Journal of the Science of Food and Agriculture*, **2000**, 80, 1722-1727	4.3	122
175	Xanthan gum production under several operational conditions: molecular structure and rheological properties*. *Enzyme and Microbial Technology*, **2000**, 26, 282-291	3.8	121
174	Evolution of ecotoxicity upon Fenton's oxidation of phenol in water. *Environmental Science & Technology*, **2007**, 41, 7164-70	10.3	110
173	Sophorolipid production by Candida bombicola: medium composition and culture methods. *Journal of Bioscience and Bioengineering*, **1999**, 88, 488-94	3.3	107
172	Hydrodechlorination of 4-chlorophenol in aqueous phase using Pd/AC catalysts prepared with modified active carbon supports. *Applied Catalysis B: Environmental*, **2006**, 67, 68-76	21.8	102
171	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	5.1	101
170	Kinetics of the Hydrodechlorination of 4-Chlorophenol in Water Using Pd, Pt, and Rh/Al2O3 Catalysts. *Industrial & Engineering Chemistry Research*, **2008**, 47, 3840-3846	3.9	101

169	Aqueous-phase hydrodechlorination of chlorophenols with pillared clays-supported Pt, Pd and Rh catalysts. *Applied Catalysis B: Environmental*, **2014**, 148-149, 330-338	21.8	95
168	Catalytic behavior of size-controlled palladium nanoparticles in the hydrodechlorination of 4-chlorophenol in aqueous phase. *Journal of Catalysis*, **2012**, 293, 85-93	7.3	95
167	Assessment of the generation of chlorinated byproducts upon Fenton-like oxidation of chlorophenols at different conditions. *Journal of Hazardous Materials*, **2011**, 190, 993-1000	12.8	95
166	Treatment of chlorophenols-bearing wastewaters through hydrodechlorination using Pd/activated carbon catalysts. *Carbon*, **2004**, 42, 1377-1381	10.4	93
165	A comparison of Al-Fe and Zr-Fe pillared clays for catalytic wet peroxide oxidation. *Chemical Engineering Journal*, **2006**, 118, 29-35	14.7	87
164	Highly efficient application of activated carbon as catalyst for wet peroxide oxidation. *Applied Catalysis B: Environmental*, **2013**, 140-141, 663-670	21.8	85
163	Compared activity and stability of Pd/Al2O3 and Pd/AC catalysts in 4-chlorophenol hydrodechlorination in different pH media. *Applied Catalysis B: Environmental*, **2011**, 103, 128-135	21.8	84
162	Hydrogenation of phenol in aqueous phase with palladium on activated carbon catalysts. *Chemical Engineering Journal*, **2007**, 131, 65-71	14.7	84
161	Cometabolic biodegradation of 4-chlorophenol by sequencing batch reactors at different temperatures. *Bioresource Technology*, **2009**, 100, 4572-8	11	76
160	Comparison of activated carbon-supported Pd and Rh catalysts for aqueous-phase hydrodechlorination. *Applied Catalysis B: Environmental*, **2011**, 106, 469-475	21.8	75
159	Catalytic wet peroxide oxidation of cosmetic wastewaters with Fe-bearing catalysts. *Catalysis Today*, **2010**, 151, 148-152	5.3	74
158	A ferromagnetic γ-alumina-supported iron catalyst for CWPO. Application to chlorophenols. *Applied Catalysis B: Environmental*, **2013**, 136-137, 218-224	21.8	71
157	Highly stable Fe on activated carbon catalysts for CWPO upon FeCl3 activation of lignin from black liquors. *Catalysis Today*, **2012**, 187, 115-121	5.3	69
156	Semicontinuous Fenton oxidation of phenol in aqueous solution. A kinetic study. *Water Research*, **2009**, 43, 4063-9	12.5	67
155	Catalytic wet air oxidation of phenol with modified activated carbons and Fe/activated carbon catalysts. *Applied Catalysis B: Environmental*, **2007**, 76, 135-145	21.8	65
154	Optimizing calcination temperature of Fe/activated carbon catalysts for CWPO. *Catalysis Today*, **2009**, 143, 341-346	5.3	63
153	Kinetics of 4-Chlorophenol Hydrodechlorination with Alumina and Activated Carbon-Supported Pd and Rh Catalysts. *Industrial & Engineering Chemistry Research*, **2009**, 48, 3351-3358	3.9	62
152	Effects of Support Surface Composition on the Activity and Selectivity of Pd/C Catalysts in Aqueous-Phase Hydrodechlorination Reactions. *Industrial & Engineering Chemistry Research*, **2005**, 44, 6661-6667	3.9	62

151	Highly stable Fe/Al2O3 catalyst for catalytic wet peroxide oxidation. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 497-504	3.5	61
150	Treatment of Highly Polluted Hazardous Industrial Wastewaters by Combined Coagulation–Adsorption and High-Temperature Fenton Oxidation. *Industrial & Engineering Chemistry Research*, **2012**, 51, 2888-2896	3.9	58
149	Viscosity of locust bean (Ceratonia siliqua) gum solutions. *Journal of the Science of Food and Agriculture*, **1992**, 59, 97-100	4.3	58
148	Wet air oxidation of phenol at mild conditions with a Fe/activated carbon catalyst. *Applied Catalysis B: Environmental*, **2006**, 62, 115-120	21.8	56
147	Reaction pathway of the catalytic wet air oxidation of phenol with a Fe/activated carbon catalyst. *Applied Catalysis B: Environmental*, **2006**, 67, 206-216	21.8	55
146	Role of the Activated Carbon Surface on Catalytic Wet Peroxide Oxidation. *Industrial & Engineering Chemistry Research*, **2008**, 47, 8166-8174	3.9	54
145	Hydrogen peroxide-promoted-CWAO of phenol with activated carbon. *Applied Catalysis B: Environmental*, **2010**, 93, 339-345	21.8	53
144	Ionic liquids breakdown by Fenton oxidation. *Catalysis Today*, **2015**, 240, 16-21	5.3	52
143	Application of CWPO to the treatment of pharmaceutical emerging pollutants in different water matrices with a ferromagnetic catalyst. *Journal of Hazardous Materials*, **2017**, 331, 45-54	12.8	51
142	Triclosan breakdown by Fenton-like oxidation. *Chemical Engineering Journal*, **2012**, 198-199, 275-281	14.7	50
141	Supported gold nanoparticle catalysts for wet peroxide oxidation. *Applied Catalysis B: Environmental*, **2012**, 111-112, 81-89	21.8	50
140	Ilmenite (FeTiO 3) as low cost catalyst for advanced oxidation processes. *Journal of Environmental Chemical Engineering*, **2016**, 4, 542-548	6.8	49
139	Application of intensified Fenton oxidation to the treatment of sawmill wastewater. *Chemosphere*, **2014**, 109, 34-41	8.4	49
138	Naturally-occurring iron minerals as inexpensive catalysts for CWPO. *Applied Catalysis B: Environmental*, **2017**, 203, 166-173	21.8	48
137	Application of Fenton-like oxidation as pre-treatment for carbamazepine biodegradation. *Chemical Engineering Journal*, **2015**, 264, 856-862	14.7	48
136	Graphite and carbon black materials as catalysts for wet peroxide oxidation. *Applied Catalysis B: Environmental*, **2014**, 144, 599-606	21.8	48
135	On the optimization of activated carbon-supported iron catalysts in catalytic wet peroxide oxidation process. *Applied Catalysis B: Environmental*, **2016**, 181, 249-259	21.8	46
134	3D-Printed Fe-doped silicon carbide monolithic catalysts for wet peroxide oxidation processes. *Applied Catalysis B: Environmental*, **2018**, 235, 246-255	21.8	46

133	Pd-Al pillared clays as catalysts for the hydrodechlorination of 4-chlorophenol in aqueous phase. *Journal of Hazardous Materials*, **2009**, 172, 214-23	12.8	46
132	Hydrodechlorination of 4-chlorophenol in water with formic acid using a Pd/activated carbon catalyst. *Journal of Hazardous Materials*, **2009**, 161, 842-7	12.8	44
131	Hydrodechlorination of dichloromethane with a Pd/AC catalyst: Reaction pathway and kinetics. *Applied Catalysis B: Environmental*, **2010**, 98, 79-85	21.8	44
130	Degradation of imidazolium-based ionic liquids in aqueous solution by Fenton oxidation. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 1197-1202	3.5	43
129	Hydrodechlorination of alachlor in water using Pd, Ni and Cu catalysts supported on activated carbon. *Applied Catalysis B: Environmental*, **2008**, 78, 259-266	21.8	43
128	Influence of TiO2 optical parameters in a slurry photocatalytic reactor: Kinetic modelling. *Applied Catalysis B: Environmental*, **2017**, 200, 164-173	21.8	42
127	UV-LED/ilmenite/persulfate for azo dye mineralization: The role of sulfate in the catalyst deactivation. *Applied Catalysis B: Environmental*, **2017**, 219, 314-321	21.8	41
126	Chlorophenols breakdown by a sequential hydrodechlorination-oxidation treatment with a magnetic Pd-Fe/Al2O3 catalyst. *Water Research*, **2013**, 47, 3070-80	12.5	41
125	The use of cyclic voltammetry to assess the activity of carbon materials for hydrogen peroxide decomposition. *Carbon*, **2013**, 60, 76-83	10.4	41
124	Synthesis of high surface area carbon adsorbents prepared from pine sawdust-Onopordum acanthium L. for nonsteroidal anti-inflammatory drugs adsorption. *Journal of Environmental Management*, **2016**, 183, 294-305	7.9	40
123	Denitrification of Water with Activated Carbon-Supported Metallic Catalysts. *Industrial & Engineering Chemistry Research*, **2010**, 49, 5603-5609	3.9	39
122	Surface modification of carbon-supported iron catalyst during the wet air oxidation of phenol: Influence on activity, selectivity and stability. *Applied Catalysis B: Environmental*, **2008**, 81, 105-114	21.8	39
121	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	21.8	38
120	Unstructured kinetic model for sophorolipid production by Candida bombicola. *Enzyme and Microbial Technology*, **1999**, 25, 613-621	3.8	37
119	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	21.8	36
118	Mineralization of naphtenic acids with thermally-activated persulfate: The important role of oxygen. *Journal of Hazardous Materials*, **2016**, 318, 355-362	12.8	35
117	Treatment of real winery wastewater by wet oxidation at mild temperature. *Separation and Purification Technology*, **2014**, 129, 121-128	8.3	35
116	Application of intensified Fenton oxidation to the treatment of hospital wastewater: Kinetics, ecotoxicity and disinfection. *Journal of Environmental Chemical Engineering*, **2016**, 4, 4107-4112	6.8	35

115	Case study of the application of Fenton process to highly polluted wastewater from power plant. *Journal of Hazardous Materials*, **2013**, 252-253, 180-5	12.8	34
114	Catalytic HDC/HDN of 4-chloronitrobenzene in water under ambient-like conditions with Pd supported on pillared clay. *Applied Catalysis B: Environmental*, **2014**, 158-159, 175-181	21.8	34
113	Role of the chemical structure of ionic liquids in their ecotoxicity and reactivity towards Fenton oxidation. *Separation and Purification Technology*, **2015**, 150, 252-256	8.3	33
112	Improved □alumina-supported Pd and Rh catalysts for hydrodechlorination of chlorophenols. *Applied Catalysis A: General*, **2014**, 488, 78-85	5.1	33
111	Kinetics of wet peroxide oxidation of phenol with a gold/activated carbon catalyst. *Chemical Engineering Journal*, **2014**, 253, 486-492	14.7	33
110	Microwave-assisted catalytic wet peroxide oxidation. Comparison of Fe catalysts supported on activated carbon and ?-alumina. *Applied Catalysis B: Environmental*, **2017**, 218, 637-642	21.8	33
109	Improved mineralization by combined advanced oxidation processes. *Chemical Engineering Journal*, **2011**, 174, 134-142	14.7	33
108	Optimization of a synthetic medium for Candida bombicola growth using factorial design of experiments. *Enzyme and Microbial Technology*, **1997**, 21, 221-229	3.8	33
107	Chlorinated Byproducts from the Fenton-like Oxidation of Polychlorinated Phenols. *Industrial & Engineering Chemistry Research*, **2012**, 51, 13092-13099	3.9	32
106	Phenol oxidation by a sequential CWPO-CWAO treatment with a Fe/AC catalyst. *Journal of Hazardous Materials*, **2007**, 146, 582-8	12.8	32
105	UV-LED assisted catalytic wet peroxide oxidation with a Fe(II)-Fe(III)/activated carbon catalyst. *Applied Catalysis B: Environmental*, **2016**, 192, 350-356	21.8	32
104	Hydrodechlorination of 4-chlorophenol in water using Rh□l pillared clays. *Chemical Engineering Journal*, **2010**, 160, 578-585	14.7	31
103	Indirect decolorization of azo dye Disperse Blue 3 by electro-activated persulfate. *Electrochimica Acta*, **2017**, 258, 927-932	6.7	30
102	Nature and photoreactivity of TiO2-rGO nanocomposites in aqueous suspensions under UV-A irradiation. *Applied Catalysis B: Environmental*, **2019**, 241, 375-384	21.8	30
101	Deactivation of a Pd/AC catalyst in the hydrodechlorination of chlorinated herbicides. *Catalysis Today*, **2015**, 241, 86-91	5.3	28
100	Highly efficient removal of pharmaceuticals from water by well-defined carbide-derived carbons. *Chemical Engineering Journal*, **2018**, 347, 595-606	14.7	27
99	Landfill leachate treatment by sequential combination of activated persulfate and Fenton oxidation. *Waste Management*, **2018**, 81, 220-225	8.6	27
98	Evaluation of photoassisted treatments for norfloxacin removal in water using mesoporous FeO-TiO materials. *Journal of Environmental Management*, **2019**, 238, 243-250	7.9	26

97	Analysis of the deactivation of Pd, Pt and Rh on activated carbon catalysts in the hydrodechlorination of the MCPA herbicide. *Applied Catalysis B: Environmental*, **2016**, 181, 429-435	21.8	24
96	Modified ilmenite as catalyst for CWPO-Photoassisted process under LED light. *Chemical Engineering Journal*, **2017**, 318, 89-94	14.7	24
95	Oxidation of cosmetic wastewaters with H(2)O(2) using a Fe/gamma-Al(2)O(3) catalyst. *Water Science and Technology*, **2010**, 61, 1631-6	2.2	24
94	Treatment of hospital wastewater through the CWPO-Photoassisted process catalyzed by ilmenite. *Journal of Environmental Chemical Engineering*, **2017**, 5, 4337-4343	6.8	23
93	Sulfonamides photoassisted oxidation treatments catalyzed by ilmenite. *Chemosphere*, **2017**, 180, 523-530	8.4	22
92	Cyclohexanoic acid breakdown by two-step persulfate and heterogeneous Fenton-like oxidation. *Applied Catalysis B: Environmental*, **2018**, 232, 429-435	21.8	22
91	Intensification of catalytic wet peroxide oxidation with microwave radiation: Activity and stability of carbon materials. *Separation and Purification Technology*, **2019**, 209, 301-306	8.3	22
90	Improved wet peroxide oxidation strategies for the treatment of chlorophenols. *Chemical Engineering Journal*, **2013**, 228, 646-654	14.7	22
89	Hydrodechlorination of diuron in aqueous solution with Pd, Cu and Ni on activated carbon catalysts. *Chemical Engineering Journal*, **2010**, 163, 212-218	14.7	22
88	Degradation of polychlorinated biphenyls by extracellular enzymes of Phanerochaete chrysosporium produced in a perforated plate bioreactor. *World Journal of Microbiology and Biotechnology*, **1999**, 15, 269-276	4.4	22
87	Antibiotics abatement in synthetic and real aqueous matrices by H2O2/natural magnetite. *Catalysis Today*, **2018**, 313, 142-147	5.3	21
86	Polymer-based spherical activated carbon as catalytic support for hydrodechlorination reactions. *Applied Catalysis B: Environmental*, **2017**, 218, 498-505	21.8	21
85	Microwave-assisted catalytic wet peroxide oxidation: Energy optimization. *Separation and Purification Technology*, **2019**, 215, 62-69	8.3	21
84	Degradation of organochlorinated pollutants in water by catalytic hydrodechlorination and photocatalysis. *Catalysis Today*, **2016**, 266, 168-174	5.3	20
83	An overview on the application of advanced oxidation processes for the removal of naphthenic acids from water. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 1337-1370	11.1	20
82	Hydrodechlorination of 4-chlorophenol in aqueous phase with Pt/Al pillared clays using formic acid as hydrogen source. *Applied Clay Science*, **2009**, 45, 206-212	5.2	20
81	Fast degradation of diclofenac by catalytic hydrodechlorination. *Chemosphere*, **2018**, 213, 141-148	8.4	20
80	Combining efficiently catalytic hydrodechlorination and wet peroxide oxidation (HDC-CWPO) for the abatement of organochlorinated water pollutants. *Applied Catalysis B: Environmental*, **2014**, 150-151, 197-203	21.8	19

79	Kinetic modeling of wet peroxide oxidation with a carbon black catalyst. *Applied Catalysis B: Environmental*, **2017**, 209, 701-710	21.8	18
78	Degradation of widespread cyanotoxins with high impact in drinking water (microcystins, cylindrospermopsin, anatoxin-a and saxitoxin) by CWPO. *Water Research*, **2019**, 163, 114853	12.5	18
77	A kinetic study of reuterin production by Lactobacillus reuteri PRO 137 in resting cells. *Biochemical Engineering Journal*, **2007**, 35, 218-225	4.2	18
76	On the performance of Pd and Rh catalysts over different supports in the hydrodechlorination of the MCPA herbicide. *Applied Catalysis B: Environmental*, **2016**, 186, 151-156	21.8	17
75	Coupled fenton-denitrification process for the removal of organic matter and total nitrogen from coke plant wastewater. *Chemosphere*, **2019**, 224, 653-657	8.4	17
74	Application of high-temperature Fenton oxidation for the treatment of sulfonation plant wastewater. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1839-1846	3.5	16
73	Degradation of imidazolium-based ionic liquids by catalytic wet peroxide oxidation with carbon and magnetic iron catalysts. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 2882-2887	3.5	16
72	Defining the role of substituents on adsorption and photocatalytic degradation of phenolic compounds. *Journal of Environmental Chemical Engineering*, **2017**, 5, 4612-4620	6.8	16
71	Selectivity of hydrogen peroxide decomposition towards hydroxyl radicals in catalytic wet peroxide oxidation (CWPO) over Fe/AC catalysts. *Water Science and Technology*, **2010**, 61, 2769-78	2.2	16
70	Unstructured kinetic model for reuterin and 1,3-propanediol production by Lactobacillus reuteri from glycerol/glucose cofermentation. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 675-680	3.5	16
69	P-, B- and N-doped carbon black for the catalytic wet peroxide oxidation of phenol: Activity, stability and kinetic studies. *Catalysis Communications*, **2017**, 102, 131-135	3.2	15
68	Detoxification of kraft pulp ECF bleaching effluents by catalytic hydrotreatment. *Water Research*, **2007**, 41, 915-23	12.5	15
67	Use of flow cytometry for growth structured kinetic model development. *Enzyme and Microbial Technology*, **2004**, 34, 399-406	3.8	15
66	Carbon-encapsulated iron nanoparticles as reusable adsorbents for micropollutants removal from water. *Separation and Purification Technology*, **2021**, 257, 117974	8.3	15
65	Adsorption of micropollutants onto realistic microplastics: Role of microplastic nature, size, age, and NOM fouling. *Chemosphere*, **2021**, 283, 131085	8.4	15
64	Direct Hydroxylation of Phenol to Dihydroxybenzenes by H2O2 and Fe-based Metal-Organic Framework Catalyst at Room Temperature. *Catalysts*, **2020**, 10, 172	4	14
63	Optimization of Disperse Blue 3 mineralization by UV-LED/FeTiO3 activated persulfate using response surface methodology. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 85, 66-73	5.3	14
62	Assessment of carbon monoxide formation in Fenton oxidation process: The critical role of pollutant nature and operating conditions. *Applied Catalysis B: Environmental*, **2018**, 232, 55-59	21.8	14

61	Fate of iron oxalates in aqueous solution: The role of temperature, iron species and dissolved oxygen. *Journal of Environmental Chemical Engineering*, **2014**, 2, 2236-2241	6.8	14
60	CWPO of 4-CP and industrial wastewater with Al-Fe pillared clays. *Water Science and Technology*, **2010**, 61, 2161-8	2.2	14
59	The pH effect on the kinetics of 4-nitrophenol removal by CWPO with doped carbon black catalysts. *Catalysis Today*, **2020**, 356, 216-225	5.3	14
58	Complete degradation of the persistent anti-depressant sertraline in aqueous solution by solar photo-Fenton oxidation. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 814-818	3.5	13
57	Colloidal and microemulsion synthesis of rhenium nanoparticles in aqueous medium. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 469, 202-210	5.1	13
56	A comparative study among catalytic wet air oxidation, Fenton, and Photo-Fenton technologies for the on-site treatment of hospital wastewater. *Journal of Environmental Management*, **2021**, 290, 112624	7.9	13
55	Activated carbon as catalyst for microwave-assisted wet peroxide oxidation of aromatic hydrocarbons. *Environmental Science and Pollution Research*, **2018**, 25, 27748-27755	5.1	13
54	Cucurbit[7]uril-stabilized gold nanoparticles as catalysts of the nitro compound reduction reaction. *RSC Advances*, **2016**, 6, 86309-86315	3.7	12
53	Improving the Fenton process by visible LED irradiation. *Environmental Science and Pollution Research*, **2016**, 23, 23449-23455	5.1	12
52	Fast oxidation of the neonicotinoid pesticides listed in the EU Decision 2018/840 from aqueous solutions. *Separation and Purification Technology*, **2020**, 235, 116168	8.3	12
51	Coupled heat-activated persulfate - Electrolysis for the abatement of organic matter and total nitrogen from landfill leachate. *Waste Management*, **2019**, 97, 47-51	8.6	11
50	Enhanced cork-boiling wastewater treatment by electro-assisted processes. *Separation and Purification Technology*, **2020**, 241, 116748	8.3	11
49	Selective reduction of nitrate to N2 using ilmenite as a low cost photo-catalyst. *Applied Catalysis B: Environmental*, **2020**, 273, 118930	21.8	10
48	Two-step persulfate and Fenton oxidation of naphthenic acids in water. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 2262-2270	3.5	10
47	Cutting oil-water emulsion wastewater treatment by microwave assisted catalytic wet peroxide oxidation. *Separation and Purification Technology*, **2021**, 257, 117940	8.3	10
46	CWPO intensification by induction heating using magnetite as catalyst. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104085	6.8	9
45	Catalytic efficiency of macrocyclic-capped gold nanoparticles: cucurbit[n]urils versus cyclodextrins. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	9
44	Electro activation of persulfate using iron sheet as low-cost electrode: the role of the operating conditions. *Environmental Technology (United Kingdom)*, **2018**, 39, 1208-1216	2.6	9

43	Catalytic hydrodechlorination as polishing step in drinking water treatment for the removal of chlorinated micropollutants. *Separation and Purification Technology*, **2019**, 227, 115717	8.3	9
42	Enhanced Pd pillared clays by Rh inclusion for the catalytic hydrodechlorination of chlorophenols in water. *Water Science and Technology*, **2012**, 65, 653-60	2.2	9
41	Efficient removal of the pharmaceutical pollutants included in the EU Watch List (Decision 2015/495) by modified magnetite/H2O2. *Chemical Engineering Journal*, **2019**, 376, 120265	14.7	9
40	Iron-based metal-organic frameworks integrated into 3D printed ceramic architectures. *Open Ceramics*, **2021**, 5, 100047	3.3	9
39	Nanoscale Fe/Ag particles activated persulfate: optimization using response surface methodology. *Water Science and Technology*, **2017**, 75, 2216-2224	2.2	8
38	TiO2-rGO photocatalytic degradation of an emerging pollutant: kinetic modelling and determination of intrinsic kinetic parameters. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103406	6.8	8
37	On the Role of the Cathode for the Electro-Oxidation of Perfluorooctanoic Acid. *Catalysts*, **2020**, 10, 902	4	8
36	Overview of toxic cyanobacteria and cyanotoxins in Ibero-American freshwaters: Challenges for risk management and opportunities for removal by advanced technologies. *Science of the Total Environment*, **2021**, 761, 143197	10.2	8
35	Comparison of Fenton and Fenton-like oxidation for the treatment of cosmetic wastewater. *Water Science and Technology*, **2014**, 70, 472-8	2.2	7
34	Apparent yield stress in xanthan gum solutions at low concentrations. *The Chemical Engineering Journal and the Biochemical Engineering Journal*, **1994**, 53, B41-B46		7
33	Development and application of scoring rubrics for evaluating students competencies and learning outcomes in Chemical Engineering experimental courses. *Education for Chemical Engineers*, **2019**, 26, 80-88	2.4	7
32	Graphene-based nanostructures as catalysts for wet peroxide oxidation treatments: From nanopowders to 3D printed porous monoliths. *Catalysis Today*, **2020**, 356, 197-204	5.3	7
31	Boosting the catalytic activity of natural magnetite for wet peroxide oxidation. *Environmental Science and Pollution Research*, **2020**, 27, 1176-1185	5.1	7
30	UV-assisted Catalytic Wet Peroxide Oxidation and adsorption as efficient process for arsenic removal in groundwater. *Catalysis Today*, **2021**, 361, 176-182	5.3	7
29	Simulation and Optimization of the CWPO Process by Combination of Aspen Plus and 6-Factor Doehlert Matrix: Towards Autothermal Operation. *Catalysts*, **2020**, 10, 548	4	6
28	Kinetics of imidazolium-based ionic liquids degradation in aqueous solution by Fenton oxidation. *Environmental Science and Pollution Research*, **2018**, 25, 34811-34817	5.1	6
27	Condensation By-Products in Wet Peroxide Oxidation: Fouling or Catalytic Promotion? Part I. Evidences of an Autocatalytic Process. *Catalysts*, **2019**, 9, 516	4	6
26	Influence of the nitrogen source on the production and rheological properties of scleroglucan produced by Sclerotium rolfsii ATCC 201126. *World Journal of Microbiology and Biotechnology*, **1999**, 15, 309-316	4.4	6

25	Photocatalytic wet peroxide oxidation process at circumneutral pH using ilmenite as catalyst. *Journal of Environmental Chemical Engineering*, **2018**, 6, 7312-7317	6.8	6
24	3D honeycomb monoliths with interconnected channels for the sustainable production of dihydroxybenzenes: towards the intensification of selective oxidation processes. *Chemical Engineering and Processing: Process Intensification*, **2021**, 165, 108437	3.7	6
23	On the biodegradability of nitrophenols and their reaction products by catalytic hydrogenation*. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1263-1269	3.5	5
22	Elucidation of the photocatalytic-mechanism of phenolic compounds. *Journal of Environmental Chemical Engineering*, **2018**, 6, 5712-5719	6.8	5
21	Treatment of Cork Boiling Wastewater by thermal wet oxidation processes. *Separation and Purification Technology*, **2021**, 119806	8.3	5
20	Catalytic Hydrodehalogenation of Haloacetic Acids: A Kinetic Study. *Industrial & Engineering Chemistry Research*, **2020**, 59, 17779-17785	3.9	4
19	On the deactivation and regeneration of Pd/Al2O3 catalyst for aqueous-phase hydrodechlorination of diluted chlorpromazine solution. *Catalysis Today*, **2020**, 356, 255-259	5.3	4
18	Palladium-based Catalytic Membrane Reactor for the continuous flow hydrodechlorination of chlorinated micropollutants. *Applied Catalysis B: Environmental*, **2021**, 293, 120235	21.8	4
17	Characterization of the gas effluent in the treatment of nitrogen containing pollutants in water by Fenton process. *Separation and Purification Technology*, **2019**, 221, 269-274	8.3	3
16	Catalytic Wet Peroxide Oxidation of Cylindrospermopsin over Magnetite in a Continuous Fixed-Bed Reactor. *Catalysts*, **2020**, 10, 1250	4	3
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