Macarena Muoz

List of Publications by Citations

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Version: 2024-04-19

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60 papers	2,045 citations	23 h-index	44 g-index
62 ext. papers	2,439 ext. citations	9.9 avg, IF	5.35 L-index

#	Paper	IF	Citations
60	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
59	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
58	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
57	Accelerating Oxygen-Reduction Catalysts through Preventing Poisoning with Non-Reactive Species by Using Hydrophobic Ionic Liquids. *Angewandte Chemie - International Edition*, **2016**, 55, 2257-61	16.4	85
56	A ferromagnetic �alumina-supported iron catalyst for CWPO. Application to chlorophenols. *Applied Catalysis B: Environmental*, **2013**, 136-137, 218-224	21.8	71
55	Boosting performance of low temperature fuel cell catalysts by subtle ionic liquid modification. *ACS Applied Materials & Interfaces*, **2015**, 7, 3562-70	9.5	65
54	Tuning the Electrocatalytic Performance of Ionic Liquid Modified Pt Catalysts for the Oxygen Reduction Reaction via Cationic Chain Engineering. *ACS Catalysis*, **2018**, 8, 8244-8254	13.1	53
53	Ionic liquids breakdown by Fenton oxidation. *Catalysis Today*, **2015**, 240, 16-21	5.3	52
52	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
51	Triclosan breakdown by Fenton-like oxidation. *Chemical Engineering Journal*, **2012**, 198-199, 275-281	14.7	50
50	Application of intensified Fenton oxidation to the treatment of sawmill wastewater. *Chemosphere*, **2014**, 109, 34-41	8.4	49
49	Naturally-occurring iron minerals as inexpensive catalysts for CWPO. *Applied Catalysis B: Environmental*, **2017**, 203, 166-173	21.8	48
48	Application of Fenton-like oxidation as pre-treatment for carbamazepine biodegradation. *Chemical Engineering Journal*, **2015**, 264, 856-862	14.7	48
47	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
46	Chlorophenols breakdown by a sequential hydrodechlorination-oxidation treatment with a magnetic Pd-Fe/�Al2O3 catalyst. *Water Research*, **2013**, 47, 3070-80	12.5	41
45	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
44	Size-controlled PtNi nanoparticles as highly efficient catalyst for hydrodechlorination reactions. *Applied Catalysis B: Environmental*, **2016**, 192, 1-7	21.8	36

43	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
42	Deducing kinetic constants for the hydrodechlorination of 4-chlorophenol using high adsorption capacity catalysts. *Chemical Engineering Journal*, **2016**, 285, 228-235	14.7	34
41	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
40	Improved □alumina-supported Pd and Rh catalysts for hydrodechlorination of chlorophenols. *Applied Catalysis A: General*, **2014**, 488, 78-85	5.1	33
39	Chlorinated Byproducts from the Fenton-like Oxidation of Polychlorinated Phenols. *Industrial & Engineering Chemistry Research*, **2012**, 51, 13092-13099	3.9	32
38	Highly efficient removal of pharmaceuticals from water by well-defined carbide-derived carbons. *Chemical Engineering Journal*, **2018**, 347, 595-606	14.7	27
37	Treatment of hospital wastewater through the CWPO-Photoassisted process catalyzed by ilmenite. *Journal of Environmental Chemical Engineering*, **2017**, 5, 4337-4343	6.8	23
36	Improved wet peroxide oxidation strategies for the treatment of chlorophenols. *Chemical Engineering Journal*, **2013**, 228, 646-654	14.7	22
35	Effective Adsorption of Methylene Blue dye onto Magnetic Nanocomposites. Modeling and Reuse Studies. *Applied Sciences (Switzerland)*, **2019**, 9, 4563	2.6	22
34	Antibiotics abatement in synthetic and real aqueous matrices by H2O2/natural magnetite. *Catalysis Today*, **2018**, 313, 142-147	5.3	21
33	Polymer-based spherical activated carbon as catalytic support for hydrodechlorination reactions. *Applied Catalysis B: Environmental*, **2017**, 218, 498-505	21.8	21
32	Boosting the Activity in Supported Ionic Liquid-Phase-Catalyzed Hydroformylation via Surface Functionalization of the Carbon Support. *ACS Catalysis*, **2016**, 6, 2280-2286	13.1	21
31	Fast degradation of diclofenac by catalytic hydrodechlorination. *Chemosphere*, **2018**, 213, 141-148	8.4	20
30	Combining efficiently catalytic hydrodechlorination and wet peroxide oxidation (HDC□WPO) for the abatement of organochlorinated water pollutants. *Applied Catalysis B: Environmental*, **2014**, 150-151, 197-203	21.8	19
29	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
28	Polymer-Based Spherical Activated Carbon as Easy-to-Handle Catalyst Support for□Hydrogenation Reactions. *Chemical Engineering and Technology*, **2016**, 39, 276-284	2	17
27	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
26	Exploring the role of the catalytic support sorption capacity on the hydrodechlorination kinetics by the use of carbide-derived carbons. *Applied Catalysis B: Environmental*, **2017**, 203, 591-598	21.8	15

25	Carbon-encapsulated iron nanoparticles as reusable adsorbents for micropollutants removal from water. *Separation and Purification Technology*, **2021**, 257, 117974	8.3	15
24	Adsorption of micropollutants onto realistic microplastics: Role of microplastic nature, size, age, and NOM fouling. *Chemosphere*, **2021**, 283, 131085	8.4	15
23	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
22	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
21	Combining HDC and CWPO for the removal of p -chloro- m -cresol from water under ambient-like conditions. *Applied Catalysis B: Environmental*, **2017**, 216, 20-29	21.8	11
20	CWPO intensification by induction heating using magnetite as catalyst. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104085	6.8	9
19	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
18	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
17	Nanoscale Fe/Ag particles activated persulfate: optimization using response surface methodology. *Water Science and Technology*, **2017**, 75, 2216-2224	2.2	8
16	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
15	Role of the pore structure of Fe/C catalysts on heterogeneous Fenton oxidation. *Journal of Environmental Chemical Engineering*, **2020**, 8, 102921	6.8	7
14	Boosting the catalytic activity of natural magnetite for wet peroxide oxidation. *Environmental Science and Pollution Research*, **2020**, 27, 1176-1185	5.1	7
13	Stable Immobilization of Size-Controlled Bimetallic Nanoparticles in Photonic Crystal Fiber Microreactor. *Chemie-Ingenieur-Technik*, **2018**, 90, 653-659	0.8	7
12	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
11	Condensation By-Products in Wet Peroxide Oxidation: Fouling or Catalytic Promotion? Part I. Evidences of an Autocatalytic Process. *Catalysts*, **2019**, 9, 516	4	6
10	Aktivit�ssteigerung von Sauerstoffreduktionskatalysatoren durch Unterdr�kung der Katalysatorvergiftung mittels hydrophober ionischer Fl�sigkeiten. *Angewandte Chemie*, **2016**, 128, 2298-2302	3.6	5
9	Catalytic Hydrodehalogenation of Haloacetic Acids: A Kinetic Study. *Industrial & Engineering Chemistry Research*, **2020**, 59, 17779-17785	3.9	4
8	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

7	Palladium-based Catalytic Membrane Reactor for the continuous flow hydrodechlorination of chlorinated micropollutants. *Applied Catalysis B: Environmental*, **2021**, 293, 120235	21.8	4
6	Catalytic Wet Peroxide Oxidation of Cylindrospermopsin over Magnetite in a Continuous Fixed-Bed Reactor. *Catalysts*, **2020**, 10, 1250	4	3
5	Catalyst deactivation in the hydrodechlorination of micropollutants. A case of study with neonicotinoid pesticides. *Journal of Water Process Engineering*, **2020**, 38, 101550	6.7	3
4	Condensation By-Products in Wet Peroxide Oxidation: Fouling or Catalytic Promotion? Part II: Activity, Nature and Stability. *Catalysts*, **2019**, 9, 518	4	2
3	Catalytic hydrodehalogenation of the flame retardant tetrabromobisphenol A by alumina-supported Pd, Rh and Pt catalysts. *Chemical Engineering Journal Advances*, **2022**, 9, 100212	3.6	0
2	Innovative iron oxide foams for the removal of micropollutants by Catalytic Wet Peroxide Oxidation: Assessment of long-term operation under continuous mode. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105914	6.8	0
1	Application of catalytic hydrodehalogenation in drinking water treatment for organohalogenated micropollutants removal: A review. *Journal of Hazardous Materials Advances*, **2022**, 5, 100047		