

Macarena Muñoz

List of Publications by Year in descending order

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61
papers

2,797
citations

172207

29
h-index

174990

52
g-index

62
all docs

62
docs citations

62
times ranked

3321
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of magnetite-based catalysts and their application in heterogeneous Fenton oxidation – A review. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 249-265.	10.8	593
2	Trends in the Intensification of the Fenton Process for Wastewater Treatment: An Overview. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 2611-2692.	6.6	191
3	Accelerating Oxygen–Reduction Catalysts through Preventing Poisoning with Non–Reactive Species by Using Hydrophobic Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2257-2261.	7.2	125
4	Assessment of the generation of chlorinated byproducts upon Fenton-like oxidation of chlorophenols at different conditions. <i>Journal of Hazardous Materials</i> , 2011, 190, 993-1000.	6.5	109
5	Boosting Performance of Low Temperature Fuel Cell Catalysts by Subtle Ionic Liquid Modification. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3562-3570.	4.0	90
6	Tuning the Electrocatalytic Performance of Ionic Liquid Modified Pt Catalysts for the Oxygen Reduction Reaction via Cationic Chain Engineering. <i>ACS Catalysis</i> , 2018, 8, 8244-8254.	5.5	82
7	Adsorption of micropollutants onto realistic microplastics: Role of microplastic nature, size, age, and NOM fouling. <i>Chemosphere</i> , 2021, 283, 131085.	4.2	79
8	A ferromagnetic γ -alumina-supported iron catalyst for CWPO. Application to chlorophenols. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 218-224.	10.8	77
9	Triclosan breakdown by Fenton-like oxidation. <i>Chemical Engineering Journal</i> , 2012, 198-199, 275-281.	6.6	64
10	Ionic liquids breakdown by Fenton oxidation. <i>Catalysis Today</i> , 2015, 240, 16-21.	2.2	64
11	Application of CWPO to the treatment of pharmaceutical emerging pollutants in different water matrices with a ferromagnetic catalyst. <i>Journal of Hazardous Materials</i> , 2017, 331, 45-54.	6.5	64
12	Naturally-occurring iron minerals as inexpensive catalysts for CWPO. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 166-173.	10.8	61
13	Application of Fenton-like oxidation as pre-treatment for carbamazepine biodegradation. <i>Chemical Engineering Journal</i> , 2015, 264, 856-862.	6.6	60
14	Application of intensified Fenton oxidation to the treatment of sawmill wastewater. <i>Chemosphere</i> , 2014, 109, 34-41.	4.2	57
15	Synthesis of high surface area carbon adsorbents prepared from pine sawdust- <i>Onopordum acanthium</i> L. for nonsteroidal anti-inflammatory drugs adsorption. <i>Journal of Environmental Management</i> , 2016, 183, 294-305.	3.8	56
16	Degradation of imidazolium–based ionic liquids in aqueous solution by Fenton oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1197-1202.	1.6	53
17	Effective Adsorption of Methylene Blue dye onto Magnetic Nanocomposites. <i>Modeling and Reuse Studies. Applied Sciences (Switzerland)</i> , 2019, 9, 4563.	1.3	48
18	A comparative study among catalytic wet air oxidation, Fenton, and Photo-Fenton technologies for the on-site treatment of hospital wastewater. <i>Journal of Environmental Management</i> , 2021, 290, 112624.	3.8	47

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19	Chlorophenols breakdown by a sequential hydrodechlorination-oxidation treatment with a magnetic Pd-Fe/Al ₂ O ₃ catalyst. <i>Water Research</i> , 2013, 47, 3070-3080.	5.3	45
20	Application of intensified Fenton oxidation to the treatment of hospital wastewater: Kinetics, ecotoxicity and disinfection. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4107-4112.	3.3	45
21	Size-controlled PtNi nanoparticles as highly efficient catalyst for hydrodechlorination reactions. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 1-7.	10.8	45
22	Deducing kinetic constants for the hydrodechlorination of 4-chlorophenol using high adsorption capacity catalysts. <i>Chemical Engineering Journal</i> , 2016, 285, 228-235.	6.6	37
23	Chlorinated Byproducts from the Fenton-like Oxidation of Polychlorinated Phenols. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13092-13099.	1.8	36
24	Role of the chemical structure of ionic liquids in their ecotoxicity and reactivity towards Fenton oxidation. <i>Separation and Purification Technology</i> , 2015, 150, 252-256.	3.9	36
25	Improved γ -alumina-supported Pd and Rh catalysts for hydrodechlorination of chlorophenols. <i>Applied Catalysis A: General</i> , 2014, 488, 78-85.	2.2	35
26	Treatment of hospital wastewater through the CWPO-Photoassisted process catalyzed by ilmenite. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4337-4343.	3.3	35
27	Highly efficient removal of pharmaceuticals from water by well-defined carbide-derived carbons. <i>Chemical Engineering Journal</i> , 2018, 347, 595-606.	6.6	34
28	Antibiotics abatement in synthetic and real aqueous matrices by H ₂ O ₂ /natural magnetite. <i>Catalysis Today</i> , 2018, 313, 142-147.	2.2	32
29	Polymer-based spherical activated carbon as catalytic support for hydrodechlorination reactions. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 498-505.	10.8	31
30	Boosting the Activity in Supported Ionic Liquid-Phase-Catalyzed Hydroformylation via Surface Functionalization of the Carbon Support. <i>ACS Catalysis</i> , 2016, 6, 2280-2286.	5.5	30
31	Degradation of widespread cyanotoxins with high impact in drinking water (microcystins.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf</i>	5.3	30
32	Overview of toxic cyanobacteria and cyanotoxins in Ibero-American freshwaters: Challenges for risk management and opportunities for removal by advanced technologies. <i>Science of the Total Environment</i> , 2021, 761, 143197.	3.9	30
33	Carbon-encapsulated iron nanoparticles as reusable adsorbents for micropollutants removal from water. <i>Separation and Purification Technology</i> , 2021, 257, 117974.	3.9	29
34	Fast degradation of diclofenac by catalytic hydrodechlorination. <i>Chemosphere</i> , 2018, 213, 141-148.	4.2	28
35	Improved wet peroxide oxidation strategies for the treatment of chlorophenols. <i>Chemical Engineering Journal</i> , 2013, 228, 646-654.	6.6	25
36	Fast oxidation of the neonicotinoid pesticides listed in the EU Decision 2018/840 from aqueous solutions. <i>Separation and Purification Technology</i> , 2020, 235, 116168.	3.9	25

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37	Palladium-based Catalytic Membrane Reactor for the continuous flow hydrodechlorination of chlorinated micropollutants. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120235.	10.8	23
38	Combining efficiently catalytic hydrodechlorination and wet peroxide oxidation (HDC+CWPO) for the abatement of organochlorinated water pollutants. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 197-203.	10.8	22
39	Polymer-Based Spherical Activated Carbon as Easy-to-Handle Catalyst Support for Hydrogenation Reactions. <i>Chemical Engineering and Technology</i> , 2016, 39, 276-284.	0.9	22
40	Degradation of imidazolium-based ionic liquids by catalytic wet peroxide oxidation with carbon and magnetic iron catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2882-2887.	1.6	18
41	CWPO intensification by induction heating using magnetite as catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104085.	3.3	17
42	Catalytic hydrodechlorination as polishing step in drinking water treatment for the removal of chlorinated micropollutants. <i>Separation and Purification Technology</i> , 2019, 227, 115717.	3.9	16
43	Exploring the role of the catalytic support sorption capacity on the hydrodechlorination kinetics by the use of carbide-derived carbons. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 591-598.	10.8	15
44	Efficient removal of the pharmaceutical pollutants included in the EU Watch List (Decision 2015/495) by modified magnetite/H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2019, 376, 120265.	6.6	15
45	Combining HDC and CWPO for the removal of p-chloro-m-cresol from water under ambient-like conditions. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 20-29.	10.8	13
46	Boosting the catalytic activity of natural magnetite for wet peroxide oxidation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1176-1185.	2.7	13
47	Nanoscale Fe/Ag particles activated persulfate: optimization using response surface methodology. <i>Water Science and Technology</i> , 2017, 75, 2216-2224.	1.2	12
48	Role of the pore structure of Fe/C catalysts on heterogeneous Fenton oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 102921.	3.3	11
49	Aktivitätssteigerung von Sauerstoffreduktionskatalysatoren durch Unterdrückung der Katalysatorvergiftung mittels hydrophober ionischer Flüssigkeiten. <i>Angewandte Chemie</i> , 2016, 128, 2298-2302.	1.6	10
50	Kinetics of imidazolium-based ionic liquids degradation in aqueous solution by Fenton oxidation. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34811-34817.	2.7	10
51	Stable Immobilization of Size-Controlled Bimetallic Nanoparticles in Photonic Crystal Fiber Microreactor. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 653-659.	0.4	8
52	Condensation By-Products in Wet Peroxide Oxidation: Fouling or Catalytic Promotion? Part I. Evidences of an Autocatalytic Process. <i>Catalysts</i> , 2019, 9, 516.	1.6	7
53	Catalytic Hydrodehalogenation of Haloacetic Acids: A Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17779-17785.	1.8	7
54	Catalytic Wet Peroxide Oxidation of Cylindrospermopsin over Magnetite in a Continuous Fixed-Bed Reactor. <i>Catalysts</i> , 2020, 10, 1250.	1.6	6

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55	On the deactivation and regeneration of Pd/Al ₂ O ₃ catalyst for aqueous-phase hydrodechlorination of diluted chlorpromazine solution. <i>Catalysis Today</i> , 2020, 356, 255-259.	2.2	5
56	Innovative iron oxide foams for the removal of micropollutants by Catalytic Wet Peroxide Oxidation: Assessment of long-term operation under continuous mode. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105914.	3.3	5
57	Condensation By-Products in Wet Peroxide Oxidation: Fouling or Catalytic Promotion? Part II: Activity, Nature and Stability. <i>Catalysts</i> , 2019, 9, 518.	1.6	3
58	Editorial Catalysts: Special Issue on Trends in Catalytic Wet Peroxide Oxidation Processes. <i>Catalysts</i> , 2019, 9, 918.	1.6	3
59	Catalyst deactivation in the hydrodechlorination of micropollutants. A case of study with neonicotinoid pesticides. <i>Journal of Water Process Engineering</i> , 2020, 38, 101550.	2.6	3
60	Catalytic hydrodehalogenation of the flame retardant tetrabromobisphenol A by alumina-supported Pd, Rh and Pt catalysts. <i>Chemical Engineering Journal Advances</i> , 2022, 9, 100212.	2.4	2
61	Application of catalytic hydrodehalogenation in drinking water treatment for organohalogenated micropollutants removal: A review. <i>Journal of Hazardous Materials Advances</i> , 2022, 5, 100047.	1.2	1