

# Fernando Martinez

## List of Publications by Citations

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93  
papers

3,373  
citations

36  
h-index

56  
g-index

96  
ext. papers

3,767  
ext. citations

7.9  
avg, IF

5.36  
L-index

#	Paper	IF	Citations
93	Synthesis of a honeycomb-like Cu-based metal-organic framework and its carbon dioxide adsorption behaviour. <i>Dalton Transactions</i> , <b>2013</b> , 42, 2392-8	4.3	143
92	Heterogeneous photo-Fenton degradation of phenolic aqueous solutions over iron-containing SBA-15 catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2005</b> , 60, 181-190	21.8	141
91	Nanocomposite Fe <sub>2</sub> O <sub>3</sub> /SBA-15: An efficient and stable catalyst for the catalytic wet peroxidation of phenolic aqueous solutions. <i>Chemical Engineering Journal</i> , <b>2007</b> , 131, 245-256	14.7	118
90	Heterogeneous catalytic wet peroxide oxidation systems for the treatment of an industrial pharmaceutical wastewater. <i>Water Research</i> , <b>2009</b> , 43, 4010-8	12.5	115
89	Effective pharmaceutical wastewater degradation by Fenton oxidation with zero-valent iron. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 136-137, 64-69	21.8	110
88	Degradation of phenolic aqueous solutions by high frequency sono-Fenton systems (USFe <sub>2</sub> O <sub>3</sub> /SBA-15/H <sub>2</sub> O <sub>2</sub> ). <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 90, 380-388	21.8	109
87	Iron species incorporated over different silica supports for the heterogeneous photo-Fenton oxidation of phenol. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 70, 452-460	21.8	104
86	Integrated heterogeneous sono-photo Fenton processes for the degradation of phenolic aqueous solutions. <i>Ultrasonics Sonochemistry</i> , <b>2009</b> , 16, 417-24	8.9	97
85	Heterogeneous photo-Fenton oxidation of benzoic acid in water: Effect of operating conditions, reaction by-products and coupling with biological treatment. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 85, 24-32	21.8	94
84	Zero valent iron (ZVI) mediated Fenton degradation of industrial wastewater: Treatment performance and characterization of final composites. <i>Chemical Engineering Journal</i> , <b>2015</b> , 269, 298-305	14.7	93
83	Copper-based MOF-74 material as effective acid catalyst in Friedel-Crafts acylation of anisole. <i>Catalysis Today</i> , <b>2014</b> , 227, 130-137	5.3	91
82	Mineralization of phenol by a heterogeneous ultrasound/Fe-SBA-15/H <sub>2</sub> O <sub>2</sub> process: Multivariate study by factorial design of experiments. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 66, 198-207	21.8	90
81	Enhancement of the advanced Fenton process (Fe <sup>0</sup> /H <sub>2</sub> O <sub>2</sub> ) by ultrasound for the mineralization of phenol. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 113-114, 100-106	21.8	88
80	Amino-impregnated MOF materials for CO <sub>2</sub> capture at post-combustion conditions. <i>Chemical Engineering Science</i> , <b>2016</b> , 142, 55-61	4.4	83
79	Coupling membrane separation and photocatalytic oxidation processes for the degradation of pharmaceutical pollutants. <i>Water Research</i> , <b>2013</b> , 47, 5647-58	12.5	83
78	Treatment of Phenolic Effluents by Catalytic Wet Hydrogen Peroxide Oxidation over Fe <sub>2</sub> O <sub>3</sub> /SBA-15 Extruded Catalyst in a Fixed-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 4396-4405	3.9	82
77	The beneficial role of use of ultrasound in heterogeneous Fenton-like system over supported copper catalysts for degradation of p-chlorophenol. <i>Catalysis Today</i> , <b>2007</b> , 124, 224-231	5.3	81

76	Assessment of Fe <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> catalysts for the continuous treatment of phenol aqueous solutions in a fixed bed reactor. <i>Catalysis Today</i> , <b>2010</b> , 149, 334-340	5.3	75
75	Activity and resistance of iron-containing amorphous, zeolitic and mesostructured materials for wet peroxide oxidation of phenol. <i>Water Research</i> , <b>2005</b> , 39, 1741-50	12.5	72
74	Catalytic wet peroxide oxidation of phenolic solutions over a LaTi <sub>1-x</sub> Cu <sub>x</sub> O <sub>3</sub> perovskite catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 47, 281-294	21.8	70
73	Drugs of abuse in surface and tap waters of the Tagus River basin: heterogeneous photo-Fenton process is effective in their degradation. <i>Environment International</i> , <b>2012</b> , 41, 35-43	12.9	67
72	Comparative life cycle assessment (LCA) study of heterogeneous and homogenous Fenton processes for the treatment of pharmaceutical wastewater. <i>Journal of Cleaner Production</i> , <b>2016</b> , 124, 21-29	10.3	61
71	Wet Peroxide Oxidation of Phenolic Solutions over Different Iron-Containing Zeolitic Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 3921-3928	3.9	60
70	Heterogeneous photo-Fenton treatment for the reduction of pharmaceutical contamination in Madrid rivers and ecotoxicological evaluation by a miniaturized fern spores bioassay. <i>Chemosphere</i> , <b>2010</b> , 80, 381-8	8.4	59
69	Acid hybrid catalysts from poly(styrenesulfonic acid) grafted onto ultra-large-pore SBA-15 silica using atom transfer radical polymerization. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8026		56
68	Nanocomposite of crystalline Fe <sub>2</sub> O <sub>3</sub> and CuO particles and mesostructured SBA-15 silica as an active catalyst for wet peroxide oxidation processes. <i>Catalysis Communications</i> , <b>2006</b> , 7, 478-483	3.2	56
67	Toxicity assessment of pharmaceutical compounds on mixed culture from activated sludge using respirometric technique: The role of microbial community structure. <i>Science of the Total Environment</i> , <b>2018</b> , 630, 809-819	10.2	55
66	Biological removal of pharmaceutical and personal care products by a mixed microbial culture: Sorption, desorption and biodegradation. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 81, 108-119	4.2	50
65	Elimination of drugs of abuse and their toxicity from natural waters by photo-Fenton treatment. <i>Science of the Total Environment</i> , <b>2015</b> , 520, 198-205	10.2	47
64	Catalytic advantages of NH <sub>2</sub> -modified MIL-53(Al) materials for Knoevenagel condensation reaction. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 246, 43-50	5.3	43
63	Biological removal of pharmaceutical compounds using white-rot fungi with concomitant FAME production of the residual biomass. <i>Journal of Environmental Management</i> , <b>2016</b> , 180, 228-37	7.9	43
62	Perfluorinated Nafion-modified SBA-15 materials for catalytic acylation of anisole. <i>Applied Catalysis A: General</i> , <b>2008</b> , 347, 169-178	5.1	43
61	Sustainable Fe-BTC catalyst for efficient removal of methylene blue by advanced fenton oxidation. <i>Catalysis Today</i> , <b>2018</b> , 313, 6-11	5.3	41
60	Crystallization mechanism of Fe-MFI from wetness impregnated Fe <sub>2</sub> O <sub>3</sub> /BiO <sub>2</sub> amorphous xerogels: Role of iron species in Fenton-like processes. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 74, 11-21	5.3	41
59	Exploring the effects of ZVI addition on resource recovery in the anaerobic digestion process. <i>Chemical Engineering Journal</i> , <b>2018</b> , 335, 703-711	14.7	38

58	Techno-economical assessment of coupling Fenton/biological processes for the treatment of a pharmaceutical wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 485-494	6.8	36
57	Experimental and modeling study on removal of pharmaceutically active compounds in rotating biological contactors. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 274, 473-82	12.8	33
56	Treatment of an agrochemical wastewater by integration of heterogeneous catalytic wet hydrogen peroxide oxidation and rotating biological contactors. <i>Chemical Engineering Journal</i> , <b>2013</b> , 226, 409-415	14.7	31
55	Sulfonated polystyrene-modified mesoporous organosilicas for acid-catalyzed processes. <i>Chemical Engineering Journal</i> , <b>2010</b> , 161, 388-396	14.7	31
54	Immobilization of active and stable goethite coated-films by a dip-coating process and its application for photo-Fenton systems. <i>Chemical Engineering Journal</i> , <b>2012</b> , 203, 212-222	14.7	28
53	Synthesis and characterisation of iron-containing SBA-15 mesoporous silica. <i>Studies in Surface Science and Catalysis</i> , <b>2002</b> , 142, 1109-1116	1.8	26
52	Biodiesel and biogas production from <i>Isochrysis galbana</i> using dry and wet lipid extraction: A biorefinery approach. <i>Renewable Energy</i> , <b>2020</b> , 146, 188-195	8.1	26
51	Low-cost Fe/SiO <sub>2</sub> catalysts for continuous Fenton processes. <i>Catalysis Today</i> , <b>2017</b> , 280, 176-183	5.3	24
50	Highly Efficient Synthesis of New $\alpha$ -Arylamino- $\beta$ -chloropropan-2-ones via Oxidative Hydrolysis of Vinyl Chlorides Promoted by Calcium Hypochlorite. <i>Advanced Synthesis and Catalysis</i> , <b>2009</b> , 351, 3199-3206	5.6	22
49	Influence of preoxidizing treatments on the preparation of iron-containing activated carbons for catalytic wet peroxide oxidation of phenol. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2012</b> , 87, 880-886	3.5	21
48	Influence of synthesis routes on the state of Fe-species in SBA-15 mesoporous materials. <i>Studies in Surface Science and Catalysis</i> , <b>2004</b> , 154, 805-812	1.8	21
47	Understanding the role of mediators in the efficiency of advanced oxidation processes using white-rot fungi. <i>Chemical Engineering Journal</i> , <b>2019</b> , 359, 1427-1435	14.7	21
46	Highly Active Anti-Diabetic Metal-Organic Framework. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 537-540	3.5	20
45	<i>Trametes versicolor</i> immobilized on rotating biological contactors as alternative biological treatment for the removal of emerging concern micropollutants. <i>Water Research</i> , <b>2020</b> , 170, 115313	12.5	19
44	A Recyclable Cu-MOF-74 Catalyst for the Ligand-Free O-Arylation Reaction of 4-Nitrobenzaldehyde and Phenol. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	18
43	Removal of pharmaceutical compounds from urban wastewater by an advanced bio-oxidation process based on fungi <i>Trametes versicolor</i> immobilized in a continuous RBC system. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 34884-34892	5.1	17
42	Biological and Bioelectrochemical Systems for Hydrogen Production and Carbon Fixation Using Purple Phototrophic Bacteria. <i>Frontiers in Energy Research</i> , <b>2018</b> , 6,	3.8	17
41	Novel heterogeneous catalysts in the wet peroxide oxidation of phenol. <i>Water Science and Technology</i> , <b>2001</b> , 44, 153-160	2.2	16

40	Chemical surface modified-activated carbon cloth for catalytic wet peroxide oxidation of phenol. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 1182-1188	3.5	15
39	Resource Recovery Potential From Lignocellulosic Feedstock Upon Lysis With Ionic Liquids. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2018</b> , 6, 119	5.8	15
38	Alkaline-earth metal based MOFs with second scale long-lasting phosphor behavior. <i>CrystEngComm</i> , <b>2018</b> , 20, 4793-4803	3.3	14
37	Fenton-like catalyst based on a reticulated porous perovskite material: Activity and stability for the on-site removal of pharmaceutical micropollutants in a hospital wastewater. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126113	14.7	13
36	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> , <b>2021</b> , 290, 112624	7.9	13
35	Wastewater sludges pretreated by different oxidation systems at mild conditions to promote the biogas formation in anaerobic processes. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 24393-24401	5.1	13
34	URJC-1-MOF as New Heterogeneous Recyclable Catalyst for C-Heteroatom Coupling Reactions. <i>ChemCatChem</i> , <b>2019</b> , 11, 3376-3380	5.2	11
33	A double basic Sr-amino containing MOF as a highly stable heterogeneous catalyst. <i>Dalton Transactions</i> , <b>2019</b> , 48, 11556-11564	4.3	11
32	Treatment of an agrochemical wastewater by combined coagulation and Fenton oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 1189-1196	3.5	11
31	Contamination of N-poor wastewater with emerging pollutants does not affect the performance of purple phototrophic bacteria and the subsequent resource recovery potential. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 385, 121617	12.8	11
30	Exploring the inhibition boundaries of mixed cultures of purple phototrophic bacteria for wastewater treatment in anaerobic conditions. <i>Water Research</i> , <b>2020</b> , 183, 116057	12.5	10
29	Intensified-Fenton process for the treatment of phenol aqueous solutions. <i>Water Science and Technology</i> , <b>2015</b> , 71, 359-65	2.2	9
28	Catalytic wet peroxidation of phenol in a fixed bed reactor. <i>Water Science and Technology</i> , <b>2007</b> , 55, 75-81	2.2	9
27	Strontium-Based MOFs Showing Dual Emission: Luminescence Thermometers and Toluene Sensors. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 18432-18443	5.1	9
26	Extrusion of Fe <sub>2</sub> O <sub>3</sub> /SBA-15 mesoporous material for application as heterogeneous Fenton-like catalyst. <i>AIMS Environmental Science</i> , <b>2015</b> , 2, 154-168	1.9	8
25	Nafion-Modified Large-Pore Silicas for the Catalytic Acylation of Anisole with Acetic Anhydride. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 10145-10151	3.9	7
24	Catalytic wet hydrogen peroxide oxidation of a petrochemical wastewater. <i>Water Science and Technology</i> , <b>2010</b> , 61, 1829-36	2.2	7
23	KBR (Kinetics in Batch Reactors): a MATLAB-based application with a friendly Graphical User Interface for chemical kinetic model simulation and parameter estimation. <i>Education for Chemical Engineers</i> , <b>2019</b> , 28, 80-89	2.4	7

22	New URJC-1 Material with Remarkable Stability and Acid-Base Catalytic Properties. <i>Polymers</i> , <b>2016</b> , 8,	4.5	6
21	Direct Oxidation of ketones efficiently catalyzed by Cu-MOF-74. <i>Catalysis Today</i> , <b>2020</b> , 345, 251-257	5.3	6
20	Catalytic activity of LaCu <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> perovskite at circumneutral/basic pH conditions in electro-Fenton processes. <i>Catalysis Today</i> , <b>2021</b> , 361, 159-164	5.3	5
19	Advanced bio-oxidation of fungal mixed cultures immobilized on rotating biological contactors for the removal of pharmaceutical micropollutants in a real hospital wastewater.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 425, 128002	12.8	4
18	Wastewater treatment as a process and a resource <b>2020</b> , 19-45		4
17	Simple and efficient treatment of high-strength industrial waste water using commercial zero-valent iron. <i>Chemical Papers</i> , <b>2016</b> , 70,	1.9	4
16	Novel and Versatile Cobalt Azobenzene-Based Metal-Organic Framework as Hydrogen Adsorbent. <i>ChemPhysChem</i> , <b>2019</b> , 20, 1334-1339	3.2	4
15	Modeling the integrated heterogeneous catalytic fixed-bed reactor and rotating biological contactor system for the treatment of poorly biodegradable industrial agrochemical wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 2313-2321	6.8	3
14	An enantiomeric pair of alkaline-earth metal based coordination polymers showing room temperature phosphorescence and circularly polarized luminescence. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5544-5553	7.1	3
13	Assessment of Voltage Influence in Carbon Dioxide Fixation Process by a Photo-Bioelectrochemical System under Photoheterotrophy. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	3
12	Anaerobic digestion of purple phototrophic bacteria - The release step of the partition-release-recover concept. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123125	11	2
11	Catalytic Wet Peroxide Oxidation Process for the Continuous Treatment of Polluted Effluents on a Pilot Plant Scale. <i>Journal of Advanced Oxidation Technologies</i> , <b>2008</b> , 11,		2
10	Stabilization of iron in micro-and mesoporous ferrisilicates (MFI, MCM-22, SBA-15, and MCM-41) as detected by in situ Mössbauer spectroscopy. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 158, 733-740	1.8	2
9	Siting and redox properties of iron in porous ferrisilicates. <i>European Physical Journal D</i> , <b>2006</b> , 56, E109-E121		2
8	ZVI Addition in Continuous Anaerobic Digestion Systems Dramatically Decreases P Recovery Potential: Dynamic Modelling. <i>Lecture Notes in Civil Engineering</i> , <b>2017</b> , 211-217	0.3	2
7	Two Isostructural URJC-4 Materials: From Hydrogen Physisorption to Heterogeneous Reductive Amination through Hydrogen Molecule Activation at Low Pressure. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 15733-15740 <sup>1</sup>	5.1	0
6	Pharmaceutical wastewater degradation: effective and economical treatment using waste-metallic iron shavings. <i>International Journal of Environmental Studies</i> , <b>2014</b> , 71, 200-208	1.8	0
5	Application of a Fenton process for the pretreatment of an iron-containing oily sludge: A sustainable management for refinery wastes. <i>Journal of Environmental Management</i> , <b>2021</b> , 304, 114244 <sup>7.9</sup>	7.9	0

- 4 Alkalinity, and Not the Oxidation State of the Organic Substrate, Is the Key Factor in Domestic Wastewater Treatment by Mixed Cultures of Purple Phototrophic Bacteria. *Resources*, **2020**, 9, 88 3.7 0
- 3 Polystyrene modified hybrid materials based on ordered mesoporous silica. *Studies in Surface Science and Catalysis*, **2008**, 345-348 1.8
- 2 Optimization of H<sub>2</sub> Production through Minimization of CO<sub>2</sub> Emissions by Mixed Cultures of Purple Phototrophic Bacteria in Aqueous Samples. *Water (Switzerland)*, **2020**, 12, 2015 3
- 1 Inhibition of the metabolism of mixed cultures of purple phototrophic bacteria by typical refinery and petrochemistry wastewater pollutants. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 1893-1901 3.5