

Angel F Mohedano

List of Publications by Year in descending order

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123
papers

6,021
citations

61984

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79698

73
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128
all docs

128
docs citations

128
times ranked

5865
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of ionic liquid degradation by advanced oxidation processes. Critical Reviews in Environmental Science and Technology, 2022, 52, 2844-2887.	12.8	7
2	Energy recovery from garden and park waste by hydrothermal carbonisation and anaerobic digestion. Waste Management, 2022, 140, 100-109.	7.4	25
3	Improved energy recovery from food waste through hydrothermal carbonization and anaerobic digestion. Waste Management, 2022, 142, 9-18.	7.4	39
4	Integration of hydrothermal carbonization and aqueous phase reforming for energy recovery from sewage sludge. Chemical Engineering Journal, 2022, 442, 136301.	12.7	36
5	Nitrate reduction with bimetallic catalysts. A stability-addressed overview. Separation and Purification Technology, 2022, 290, 120750.	7.9	23
6	Energy recovery from food waste and garden and park waste: Anaerobic co-digestion versus hydrothermal treatment and anaerobic co-digestion. Chemosphere, 2022, 297, 134223.	8.2	34
7	Activated Carbons from Hydrothermal Carbonization and Chemical Activation of Olive Stones: Application in Sulfamethoxazole Adsorption. Resources, 2022, 11, 43.	3.5	11
8	Acid-mediated hydrothermal treatment of sewage sludge for nutrient recovery. Science of the Total Environment, 2022, 838, 156494.	8.0	17
9	Activity and Stability of Pd Bimetallic Catalysts for Catalytic Nitrate Reduction. Catalysts, 2022, 12, 729.	3.5	3
10	Effect of water composition on catalytic reduction of nitrate. Separation and Purification Technology, 2021, 255, 117766.	7.9	12
11	Integration of Hydrothermal Carbonization and Anaerobic Digestion for Energy Recovery of Biomass Waste: An Overview. Energy & Fuels, 2021, 35, 17032-17050.	5.1	53
12	Fate of nutrients during hydrothermal treatment of food waste. Bioresource Technology, 2021, 342, 125954.	9.6	29
13	Pretreatment of Lignocellulosic Biomass with 1-Ethyl-3-methylimidazolium Acetate for Its Eventual Valorization by Anaerobic Digestion. Resources, 2021, 10, 118.	3.5	5
14	Thiamethoxam removal by Fenton and biological oxidation. Journal of Chemical Technology and Biotechnology, 2020, 95, 913-921.	3.2	11
15	Biological oxidation of choline-based ionic liquids in sequencing batch reactors. Journal of Chemical Technology and Biotechnology, 2020, 95, 922-931.	3.2	7
16	Cation and anion effect on the biodegradability and toxicity of imidazolium- and choline-based ionic liquids. Chemosphere, 2020, 240, 124947.	8.2	73
17	Anaerobic co-digestion of the process water from waste activated sludge hydrothermally treated with primary sewage sludge. A new approach for sewage sludge management. Renewable Energy, 2020, 146, 435-443.	8.9	45
18	Contamination of N-poor wastewater with emerging pollutants does not affect the performance of purple phototrophic bacteria and the subsequent resource recovery potential. Journal of Hazardous Materials, 2020, 385, 121617.	12.4	21

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19	Toxicity and inhibition assessment of ionic liquids by activated sludge. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109836.	6.0	25
20	Anaerobic digestion for methane and hydrogen production. , 2020, , 67-83.		1
21	Technologies for wastewater sludge utilization and energy production: Hydrothermal carbonization of lignocellulosic biomass and sewage sludge. , 2020, , 133-153.		2
22	Ionic liquids removal by sequential photocatalytic and biological oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1926-1935.	3.2	15
23	Techno-economic and life cycle assessment of an integrated hydrothermal carbonization system for sewage sludge. <i>Journal of Cleaner Production</i> , 2020, 277, 122930.	9.3	99
24	Potential Use of Waste Activated Sludge Hydrothermally Treated as a Renewable Fuel or Activated Carbon Precursor. <i>Molecules</i> , 2020, 25, 3534.	3.8	20
25	Energy valorization of cow manure by hydrothermal carbonization and anaerobic digestion. <i>Renewable Energy</i> , 2020, 160, 623-632.	8.9	76
26	Factors Affecting Solubilization of Phosphorus and Nitrogen through Hydrothermal Carbonization of Animal Manure. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12462-12470.	6.7	36
27	Energy and phosphorous recovery through hydrothermal carbonization of digested sewage sludge. <i>Waste Management</i> , 2020, 105, 566-574.	7.4	93
28	Co-application of activated carbon and compost to contaminated soils: toxic elements mobility and PAH degradation and availability. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 1057-1068.	3.5	20
29	Low-Cost Activated Grape Seed-Derived Hydrochar through Hydrothermal Carbonization and Chemical Activation for Sulfamethoxazole Adsorption. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5127.	2.5	33
30	Anaerobic co-digestion of the aqueous phase from hydrothermally treated waste activated sludge with primary sewage sludge. A kinetic study. <i>Journal of Environmental Management</i> , 2019, 231, 726-733.	7.8	48
31	Removal of imidazolium-based ionic liquid by coupling Fenton and biological oxidation. <i>Journal of Hazardous Materials</i> , 2019, 365, 289-296.	12.4	28
32	Catalytic wet peroxide oxidation of imidazolium-based ionic liquids: Catalyst stability and biodegradability enhancement. <i>Chemical Engineering Journal</i> , 2019, 376, 120431.	12.7	13
33	Valorization of microalgal biomass by hydrothermal carbonization and anaerobic digestion. <i>Bioresource Technology</i> , 2019, 274, 395-402.	9.6	66
34	Sono- and photoelectrocatalytic processes for the removal of ionic liquids based on the 1-butyl-3-methylimidazolium cation. <i>Journal of Hazardous Materials</i> , 2019, 372, 77-84.	12.4	16
35	Mesophilic anaerobic co-digestion of the organic fraction of municipal solid waste with the liquid fraction from hydrothermal carbonization of sewage sludge. <i>Waste Management</i> , 2018, 76, 315-322.	7.4	72
36	Electrolysis with diamond anodes: Eventually, there are refractory species!. <i>Chemosphere</i> , 2018, 195, 771-776.	8.2	18

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37	Removal of imidazolium- and pyridinium-based ionic liquids by Fenton oxidation. Environmental Science and Pollution Research, 2018, 25, 34930-34937.	5.3	33
38	Effect of inoculum source and initial concentration on the anaerobic digestion of the liquid fraction from hydrothermal carbonisation of sewage sludge. Renewable Energy, 2018, 127, 697-704.	8.9	69
39	Influence of the supporting electrolyte on the removal of ionic liquids by electrolysis with diamond anodes. Catalysis Today, 2018, 313, 203-210.	4.4	17
40	Valorisation of the liquid fraction from hydrothermal carbonisation of sewage sludge by anaerobic digestion. Journal of Chemical Technology and Biotechnology, 2018, 93, 450-456.	3.2	59
41	Stability of carbon-supported iron catalysts for catalytic wet peroxide oxidation of ionic liquids. Journal of Environmental Chemical Engineering, 2018, 6, 6444-6450.	6.7	7
42	Assessment the ecotoxicity and inhibition of imidazolium ionic liquids by respiration inhibition assays. Ecotoxicology and Environmental Safety, 2018, 162, 29-34.	6.0	31
43	Anaerobic Co-digestion of the Organic Fraction of Municipal Solid Waste and the Liquid Fraction From the Hydrothermal Carbonization of Industrial Sewage Sludge Under Thermophilic Conditions. Frontiers in Sustainable Food Systems, 2018, 2, .	3.9	13
44	CWPO of bisphenol A with iron catalysts supported on microporous carbons from grape seeds activation. Chemical Engineering Journal, 2017, 318, 153-160.	12.7	25
45	Enhanced anaerobic degradability of highly polluted pesticides-bearing wastewater under thermophilic conditions. Journal of Hazardous Materials, 2017, 339, 320-329.	12.4	30
46	Efficient Treatment of Synthetic Wastewater Contaminated with Emerging Pollutants by Anaerobic Purple Phototrophic Bacteria. Lecture Notes in Civil Engineering, 2017, , 324-330.	0.4	2
47	Iron catalysts by chemical activation of sewage sludge with FeCl ₃ for CWPO. Chemical Engineering Journal, 2017, 318, 224-230.	12.7	72
48	Fouling control in membrane bioreactors with sewage-sludge based adsorbents. Water Research, 2016, 105, 65-75.	11.3	18
49	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.	20.2	19
50	Assessment of toxicity and biodegradability on activated sludge of priority and emerging pollutants. Environmental Technology (United Kingdom), 2016, 37, 713-721.	2.2	35
51	Degradation of organochlorinated pollutants in water by catalytic hydrodechlorination and photocatalysis. Catalysis Today, 2016, 266, 168-174.	4.4	23
52	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.	20.2	31
53	Colloidal and microemulsion synthesis of rhenium nanoparticles in aqueous medium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 469, 202-210.	4.7	16
54	Short-term fouling control by cyclic aeration in membrane bioreactors for cosmetic wastewater treatment. Desalination and Water Treatment, 2015, 56, 3599-3606.	1.0	11

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55	Application of Fenton-like oxidation as pre-treatment for carbamazepine biodegradation. Chemical Engineering Journal, 2015, 264, 856-862.	12.7	60
56	Catalytic hydrodechlorination of p-chloro-m-cresol and 2,4,6-trichlorophenol with Pd and Rh supported on Al-pillared clays. Chemical Engineering Journal, 2015, 273, 363-370.	12.7	19
57	Harmonization of the quantitative determination of volatile fatty acids profile in aqueous matrix samples by direct injection using gas chromatography and high-performance liquid chromatography techniques: Multi-laboratory validation study. Journal of Chromatography A, 2015, 1413, 94-106.	3.7	25
58	Deactivation of a Pd/AC catalyst in the hydrodechlorination of chlorinated herbicides. Catalysis Today, 2015, 241, 86-91.	4.4	30
59	Comparison of bioaugmented EGSB and GAC-FBB reactors and their combination with aerobic SBR for the abatement of chlorophenols. Chemical Engineering Journal, 2015, 259, 277-285.	12.7	25
60	Treatment of cosmetic wastewater by a full-scale membrane bioreactor (MBR). Environmental Science and Pollution Research, 2014, 21, 12662-12670.	5.3	17
61	Anaerobic biodegradability of mixtures of pesticides in an expanded granular sludge bed reactor. Water Science and Technology, 2014, 69, 532-538.	2.5	13
62	Comparison of Fenton and Fenton-like oxidation for the treatment of cosmetic wastewater. Water Science and Technology, 2014, 70, 472-478.	2.5	13
63	Highly stable iron catalysts from sewage sludge for CWPO. Journal of Environmental Chemical Engineering, 2014, 2, 2359-2364.	6.7	30
64	Strategies to evaluate biodegradability: application to chlorinated herbicides. Environmental Science and Pollution Research, 2014, 21, 9445-9452.	5.3	28
65	Coupling Fenton and biological oxidation for the removal of nitrochlorinated herbicides from water. Water Research, 2014, 49, 197-206.	11.3	43
66	ANALYSIS OF THE OPERATING CONDITIONS IN THE TREATMENT OF COSMETIC WASTEWATER BY SEQUENCING BATCH REACTORS. Environmental Engineering and Management Journal, 2014, 13, 2955-2962.	0.6	7
67	Low-temperature anaerobic treatment of low-strength pentachlorophenol-bearing wastewater. Bioresource Technology, 2013, 140, 349-356.	9.6	24
68	Degradation of chlorophenoxy herbicides by coupled Fenton and biological oxidation. Chemosphere, 2013, 93, 115-122.	8.2	53
69	Identification of by-products and toxicity assessment in aqueous-phase hydrodechlorination of diuron with palladium on activated carbon catalysts. Chemosphere, 2013, 91, 1317-1323.	8.2	13
70	Adsorption of 4-chlorophenol by inexpensive sewage sludge-based adsorbents. Chemical Engineering Research and Design, 2012, 90, 1807-1814.	5.6	58
71	Catalytic behavior of size-controlled palladium nanoparticles in the hydrodechlorination of 4-chlorophenol in aqueous phase. Journal of Catalysis, 2012, 293, 85-93.	6.2	107
72	Inhibition of methanogenesis by chlorophenols: a kinetic approach. New Biotechnology, 2012, 30, 51-61.	4.4	27

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73	Intensification of sequencing batch reactors by cometabolism and bioaugmentation with <i>Pseudomonas putida</i> for the biodegradation of 4-chlorophenol. Journal of Chemical Technology and Biotechnology, 2012, 87, 1270-1275.	3.2	22
74	On the biodegradability of nitrophenols and their reaction products by catalytic hydrogenation*. Journal of Chemical Technology and Biotechnology, 2012, 87, 1263-1269.	3.2	6
75	Enhancement of cometabolic biodegradation of 4-chlorophenol induced with phenol and glucose as carbon sources by <i>Comamonas testosteroni</i> . Journal of Environmental Management, 2012, 95, S116-S121.	7.8	75
76	Anaerobic treatment of wastewater from used industrial oil recovery. Journal of Chemical Technology and Biotechnology, 2012, 87, 1320-1328.	3.2	18
77	Effect of 2,4,6-trichlorophenol on the microbial activity of adapted anaerobic granular sludge bioaugmented with <i>Desulfitobacterium</i> strains. New Biotechnology, 2011, 29, 79-89.	4.4	26
78	Comparison of experimental methods for determination of toxicity and biodegradability of xenobiotic compounds. Biodegradation, 2011, 22, 751-761.	3.0	49
79	Cosmetic wastewater treatment by upflow anaerobic sludge blanket reactor. Journal of Hazardous Materials, 2011, 185, 1059-1065.	12.4	46
80	Highly stable $\text{Fe}/\text{Al}_2\text{O}_3$ catalyst for catalytic wet peroxide oxidation. Journal of Chemical Technology and Biotechnology, 2011, 86, 497-504.	3.2	63
81	Activated carbons from sewage sludge. Desalination, 2011, 277, 377-382.	8.2	124
82	Compared activity and stability of Pd/Al ₂ O ₃ and Pd/AC catalysts in 4-chlorophenol hydrodechlorination in different pH media. Applied Catalysis B: Environmental, 2011, 103, 128-135.	20.2	89
83	Comparison of activated carbon-supported Pd and Rh catalysts for aqueous-phase hydrodechlorination. Applied Catalysis B: Environmental, 2011, 106, 469-475.	20.2	81
84	Anaerobic biodegradation of 2,4,6-trichlorophenol in expanded granular sludge bed and fluidized bed biofilm reactors bioaugmented with <i>Desulfitobacterium</i> spp.. Water Science and Technology, 2011, 64, 293-299.	2.5	7
85	Catalytic wet peroxide oxidation of cosmetic wastewaters with Fe-bearing catalysts. Catalysis Today, 2010, 151, 148-152.	4.4	81
86	Hydrodechlorination of diuron in aqueous solution with Pd, Cu and Ni on activated carbon catalysts. Chemical Engineering Journal, 2010, 163, 212-218.	12.7	24
87	Denitrification of Water with Activated Carbon-Supported Metallic Catalysts. Industrial & Engineering Chemistry Research, 2010, 49, 5603-5609.	3.7	51
88	Oxidation of cosmetic wastewaters with H ₂ O ₂ using a $\text{Fe}/\text{Al}_2\text{O}_3$ catalyst. Water Science and Technology, 2010, 61, 1631-1636.	2.5	30
89	Integrated CWPO and Biological Treatment for the Removal of 4-Chlorophenol From Water. Separation Science and Technology, 2010, 45, 1595-1602.	2.5	23
90	Anaerobic biodegradation of 2,4,6-trichlorophenol by methanogenic granular sludge: role of co-substrates and methanogenic inhibition. Water Science and Technology, 2009, 59, 1449-1456.	2.5	9

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91	Unstructured kinetic model for reuterin and 1,3- α -propanediol production by <i>Lactobacillus reuteri</i> from glycerol/glucose cofermentation. Journal of Chemical Technology and Biotechnology, 2009, 84, 675-680.	3.2	17
92	Hydrodechlorination of 4-chlorophenol in water with formic acid using a Pd/activated carbon catalyst. Journal of Hazardous Materials, 2009, 161, 842-847.	12.4	52
93	Cometabolic biodegradation of 4-chlorophenol by sequencing batch reactors at different temperatures. Bioresource Technology, 2009, 100, 4572-4578.	9.6	83
94	Kinetics of 4-Chlorophenol Hydrodechlorination with Alumina and Activated Carbon-Supported Pd and Rh Catalysts. Industrial & Engineering Chemistry Research, 2009, 48, 3351-3358.	3.7	64
95	Comparison of UASB and EGSB performance on the anaerobic biodegradation of 2,4-dichlorophenol. Chemosphere, 2009, 76, 1192-1198.	8.2	58
96	Semicontinuous Fenton oxidation of phenol in aqueous solution. A kinetic study. Water Research, 2009, 43, 4063-4069.	11.3	74
97	An overview of the application of Fenton oxidation to industrial wastewaters treatment. Journal of Chemical Technology and Biotechnology, 2008, 83, 1323-1338.	3.2	546
98	Hydrodechlorination of alachlor in water using Pd, Ni and Cu catalysts supported on activated carbon. Applied Catalysis B: Environmental, 2008, 78, 259-266.	20.2	45
99	Kinetics of the Hydrodechlorination of 4-Chlorophenol in Water Using Pd, Pt, and Rh/Al ₂ O ₃ Catalysts. Industrial & Engineering Chemistry Research, 2008, 47, 3840-3846.	3.7	113
100	Detoxification of Kraft pulp ECF bleaching effluents by catalytic hydrotreatment. Water Research, 2007, 41, 915-923.	11.3	17
101	Hydrogenation of phenol in aqueous phase with palladium on activated carbon catalysts. Chemical Engineering Journal, 2007, 131, 65-71.	12.7	95
102	A kinetic study of reuterin production by <i>Lactobacillus reuteri</i> PRO 137 in resting cells. Biochemical Engineering Journal, 2007, 35, 218-225.	3.6	21
103	Application of Fenton oxidation to cosmetic wastewaters treatment. Journal of Hazardous Materials, 2007, 143, 128-134.	12.4	233
104	Wet air oxidation of phenol at mild conditions with a Fe/activated carbon catalyst. Applied Catalysis B: Environmental, 2006, 62, 115-120.	20.2	62
105	Catalytic wet peroxide oxidation of phenol with a Fe/active carbon catalyst. Applied Catalysis B: Environmental, 2006, 65, 261-268.	20.2	290
106	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.	20.2	105
107	Reaction pathway of the catalytic wet air oxidation of phenol with a Fe/activated carbon catalyst. Applied Catalysis B: Environmental, 2006, 67, 206-216.	20.2	62
108	Chemical Pathway and Kinetics of Phenol Oxidation by Fenton's Reagent. Environmental Science & Technology, 2005, 39, 9295-9302.	10.0	545

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109	Effects of Support Surface Composition on the Activity and Selectivity of Pd/C Catalysts in Aqueous-Phase Hydrodechlorination Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 6661-6667.	3.7	65
110	Treatment of chlorophenols-bearing wastewaters through hydrodechlorination using Pd/activated carbon catalysts. <i>Carbon</i> , 2004, 42, 1377-1381.	10.3	98
111	Purification and characterization of an extracellular tributyrin esterase produced by a cheese isolate, <i>Micrococcus</i> sp. INIA 528. <i>International Dairy Journal</i> , 2004, 14, 135-142.	3.0	15
112	Volatile Fraction of Ewe's Milk Semi-Hard Cheese Manufactured with and without the Addition of a Cysteine Proteinase. <i>Food Science and Technology International</i> , 2001, 7, 131-139.	2.2	19
113	Modeling the Influence of pH, Temperature and Culture Medium Composition on the Kinetics of Growth and Cysteine Proteinase Production by <i>Micrococcus</i> sp. INIA 528 in Batch Culture. <i>Food Science and Technology International</i> , 2001, 7, 49-57.	2.2	0
114	Modeling the Influence of pH, Temperature and Culture Medium Composition on the Kinetics of Growth and Cysteine Proteinase Production by <i>Micrococcus</i> sp. INIA 528 in Batch Culture. <i>Food Science and Technology International</i> , 2001, 7, 49-57.	2.2	0
115	Volatile Fraction of Ewes Milk Semi-Hard Cheese Manufactured. <i>Food Science and Technology International</i> , 2001, 7, 131-139.	2.2	0
116	Viscosity of guar gum and xanthan/guar gum mixture solutions. <i>Journal of the Science of Food and Agriculture</i> , 2000, 80, 1722-1727.	3.5	163
117	Purification and properties of two intracellular aminopeptidases produced by <i>Brevibacterium linens</i> SR3. <i>International Dairy Journal</i> , 2000, 10, 241-248.	3.0	16
118	Purification and Characterization of Three Extracellular Proteinases Produced by <i>Pseudomonas fluorescens</i> INIA 745, an Isolate from Ewe's Milk. <i>Journal of Food Protection</i> , 1999, 62, 543-546.	1.7	7
119	The Effect of the Cysteine Proteinase from <i>Micrococcus</i> sp. INIA 528 on the Ripening Process of Manchego Cheese. <i>Enzyme and Microbial Technology</i> , 1998, 22, 391-396.	3.2	14
120	Effect of the cysteine proteinase from <i>Micrococcus</i> sp. INIA 528 on the ripening process of Hispanico cheese. <i>Journal of Dairy Research</i> , 1998, 65, 621-630.	1.4	7
121	Effect of pH, temperature and culture medium composition on the production of an extracellular cysteine proteinase by <i>Micrococcus</i> sp. INIA 528. <i>Journal of Applied Microbiology</i> , 1997, 82, 81-86.	3.1	9
122	Purification and characterization of an extracellular cysteine proteinase produced by <i>Micrococcus</i> sp. INIA 528. <i>Journal of Applied Bacteriology</i> , 1996, 81, 27-34.	1.1	24
123	Xanthan Precipitation from Solutions and Fermentation Broths. <i>Separation Science and Technology</i> , 1993, 28, 1303-1313.	2.5	34