

Aracely Hernández-Ramírez

List of Publications by Year in descending order

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107
papers

3,980
citations

101496

36
h-index

143943

57
g-index

111
all docs

111
docs citations

111
times ranked

4875
citing authors

#	ARTICLE	IF	CITATIONS
1	Mineralization of Acid Yellow 36 azo dye by electro-Fenton and solar photoelectro-Fenton processes with a boron-doped diamond anode. <i>Chemosphere</i> , 2011, 82, 495-501.	4.2	196
2	Determination of optimum operating parameters for Acid Yellow 36 decolorization by electro-Fenton process using BDD cathode. <i>Chemical Engineering Journal</i> , 2010, 160, 199-206.	6.6	186
3	Solar photocatalytic activity of TiO ₂ modified with WO ₃ on the degradation of an organophosphorus pesticide. <i>Journal of Hazardous Materials</i> , 2013, 263, 36-44.	6.5	163
4	Application of solar photoelectro-Fenton technology to azo dyes mineralization: Effect of current density, Fe ²⁺ and dye concentrations. <i>Chemical Engineering Journal</i> , 2011, 171, 385-392.	6.6	153
5	Sol-gel synthesis, characterization and photocatalytic activity of mixed oxide ZnO-Fe ₂ O ₃ . <i>Journal of Sol-Gel Science and Technology</i> , 2007, 42, 71-78.	1.1	139
6	Optimization of electro-Fenton/BDD process for decolorization of a model azo dye wastewater by means of response surface methodology. <i>Desalination</i> , 2012, 286, 63-68.	4.0	120
7	Synthesis by sol-gel of WO ₃ /TiO ₂ for solar photocatalytic degradation of malathion pesticide. <i>Catalysis Today</i> , 2013, 209, 35-40.	2.2	115
8	Arsenic accumulation in maize crop (<i>Zea mays</i>): A review. <i>Science of the Total Environment</i> , 2014, 488-489, 176-187.	3.9	113
9	Synthesis of nitrogen-doped ZnO by sol-gel method: characterization and its application on visible photocatalytic degradation of 2,4-D and picloram herbicides. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 536-542.	1.6	81
10	Comparative efficiencies of the decolourisation of Methylene Blue using Fenton [™] s and photo-Fenton [™] s reactions. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 596-599.	1.6	75
11	Supported TiO ₂ solar photocatalysis at semi-pilot scale: degradation of pesticides found in citrus processing industry wastewater, reactivity and influence of photogenerated species. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 149-157.	1.6	75
12	Salicylic acid degradation by advanced oxidation processes. Coupling of solar photoelectro-Fenton and solar heterogeneous photocatalysis. <i>Journal of Hazardous Materials</i> , 2016, 319, 34-42.	6.5	74
13	Coupling of solar photoelectro-Fenton with a BDD anode and solar heterogeneous photocatalysis for the mineralization of the herbicide atrazine. <i>Chemosphere</i> , 2014, 97, 26-33.	4.2	70
14	Activity of the ZnO-Fe ₂ O ₃ catalyst on the degradation of Dicamba and 2,4-D herbicides using simulated solar light. <i>Ceramics International</i> , 2014, 40, 8701-8708.	2.3	68
15	Air diffusion electrodes based on synthesized mesoporous carbon for application in amoxicillin degradation by electro-Fenton and solar photo electro-Fenton. <i>Electrochimica Acta</i> , 2018, 269, 232-240.	2.6	68
16	An evaluation of the migration of antimony from polyethylene terephthalate (PET) plastic used for bottled drinking water. <i>Science of the Total Environment</i> , 2016, 565, 511-518.	3.9	64
17	Comparison of two synthesis methods on the preparation of Fe, N-Co-doped TiO ₂ materials for degradation of pharmaceutical compounds under visible light. <i>Ceramics International</i> , 2017, 43, 5068-5079.	2.3	63
18	Photocatalytic degradation of trichloroethylene in a continuous annular reactor using Cu-doped TiO ₂ catalysts by sol-gel synthesis. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 249-261.	10.8	59

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19	Determination of phthalates in bottled water by automated on-line solid phase extraction coupled to liquid chromatography with uv detection. <i>Talanta</i> , 2017, 168, 291-297.	2.9	57
20	Remediation of agro-food industry effluents by biotreatment combined with supported TiO ₂ /H ₂ O ₂ solar photocatalysis. <i>Chemical Engineering Journal</i> , 2015, 273, 205-213.	6.6	55
21	Applicability of multisyringe chromatography coupled to cold-vapor atomic fluorescence spectrometry for mercury speciation analysis. <i>Analytica Chimica Acta</i> , 2011, 708, 11-18.	2.6	53
22	Effect of carbon doping on WO ₃ /TiO ₂ coupled oxide and its photocatalytic activity on diclofenac degradation. <i>Ceramics International</i> , 2016, 42, 9796-9803.	2.3	53
23	Low Concentration Fe-Doped Alumina Catalysts Using Sol-Gel and Impregnation Methods: The Synthesis, Characterization and Catalytic Performance during the Combustion of Trichloroethylene. <i>Materials</i> , 2014, 7, 2062-2086.	1.3	52
24	Advanced oxidation of real sulfamethoxazole+ trimethoprim formulations using different anodes and electrolytes. <i>Chemosphere</i> , 2018, 192, 225-233.	4.2	50
25	Enhancing the electrochemical oxidation of acid-yellow 36 azo dye using boron-doped diamond electrodes by addition of ferrous ion. <i>Journal of Hazardous Materials</i> , 2009, 167, 1226-1230.	6.5	48
26	Enhancement of the oxidative removal of diclofenac and of the TiO ₂ rate of photon absorption in dye-sensitized solar pilot scale CPC photocatalytic reactors. <i>Chemical Engineering Journal</i> , 2020, 381, 122520.	6.6	48
27	Photocatalytic elimination of bisphenol A under visible light using Ni-doped TiO ₂ synthesized by microwave assisted sol-gel method. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 275-282.	1.9	47
28	Spray deposited Bi ₂ O ₃ nanostructured films with visible photocatalytic activity for solar water treatment. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1110-1119.	1.6	45
29	Synthesis, characterization, photocatalytic evaluation, and toxicity studies of TiO ₂ @Fe ³⁺ nanocatalyst. <i>Journal of Materials Science</i> , 2014, 49, 5309-5323.	1.7	42
30	Comparison of the solar photocatalytic activity of ZnO-Fe ₂ O ₃ and ZnO-FeO on 2,4-D degradation in a CPC reactor. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 543-549.	1.6	42
31	Photocatalytic removal of inorganic and organic arsenic species from aqueous solution using zinc oxide semiconductor. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 653-659.	1.6	41
32	Performance of the photo-Fenton process in the degradation of a model azo dye mixture. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 332-337.	1.6	40
33	Determination of phthalate acid esters plasticizers in polyethylene terephthalate bottles and its correlation with some physicochemical properties. <i>Polymer Testing</i> , 2018, 68, 87-94.	2.3	39
34	Photocatalytic degradation and toxicity reduction of isoniazid using Bi ₂ O ₃ in real wastewater. <i>Catalysis Today</i> , 2020, 341, 82-89.	2.2	39
35	Solar photo-Fenton degradation of herbicides partially dissolved in water. <i>Catalysis Today</i> , 2011, 161, 214-220.	2.2	38
36	Degradation of anti-inflammatory drugs in municipal wastewater by heterogeneous photocatalysis and electro-Fenton process. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 2436-2445.	1.2	37

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37	Degradation and Loss of Antibacterial Activity of Commercial Amoxicillin with TiO ₂ /WO ₃ -Assisted Solar Photocatalysis. <i>Catalysts</i> , 2018, 8, 222.	1.6	36
38	Synthesis and photocatalytic activity of ZnO-CuPc for methylene blue and potassium cyanide degradation. <i>Materials Science in Semiconductor Processing</i> , 2018, 77, 74-82.	1.9	35
39	Sulfamethoxazole mineralization by solar photo electro-Fenton process in a pilot plant. <i>Catalysis Today</i> , 2018, 313, 175-181.	2.2	35
40	Coupling of heterogeneous photocatalysis and photosensitized oxidation for diclofenac degradation: role of the oxidant species. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 383, 112015.	2.0	35
41	A novel P-doped Fe ₂ O ₃ -TiO ₂ mixed oxide: Synthesis, characterization and photocatalytic activity under visible radiation. <i>Catalysis Today</i> , 2019, 328, 91-98.	2.2	35
42	Cyanide degradation in aqueous solution by heterogeneous photocatalysis using boron-doped zinc oxide. <i>Catalysis Today</i> , 2019, 328, 202-209.	2.2	33
43	Visible light photocatalytic activity of sol-gel Ni-doped TiO ₂ on p-arsanilic acid degradation. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 85, 723-731.	1.1	32
44	Sol-gel synthesis and characterization of novel La, Mn and Fe doped zirconia: Catalytic combustion activity of trichloroethylene. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 315, 147-155.	2.3	31
45	An evaluation of the bioaccessibility of arsenic in corn and rice samples based on cloud point extraction and hydride generation coupled to atomic fluorescence spectrometry. <i>Food Chemistry</i> , 2016, 204, 475-482.	4.2	31
46	Evaluation of the transfer of soil arsenic to maize crops in suburban areas of San Luis Potosi, Mexico. <i>Science of the Total Environment</i> , 2014, 497-498, 153-162.	3.9	30
47	Recent Developments in the Photocatalytic Treatment of Cyanide Wastewater: An Approach to Remediation and Recovery of Metals. <i>Processes</i> , 2019, 7, 225.	1.3	30
48	Experimental data on the production and characterization of biochars derived from coconut-shell wastes obtained from the Colombian Pacific Coast at low temperature pyrolysis. <i>Data in Brief</i> , 2020, 28, 104855.	0.5	29
49	Effective radiation field model to scattering absorption applied in heterogeneous photocatalytic reactors. <i>Chemical Engineering Journal</i> , 2015, 279, 442-451.	6.6	28
50	Photocatalytic behaviour of WO ₃ /TiO ₂ -N for diclofenac degradation using simulated solar radiation as an activation source. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4613-4624.	2.7	28
51	Phthalates in Beverages and Plastic Bottles: Sample Preparation and Determination. <i>Food Analytical Methods</i> , 2018, 11, 48-61.	1.3	28
52	Solar photocatalytic degradation of diclofenac aqueous solution using fluorine doped zinc oxide as catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 391, 112364.	2.0	28
53	Enhancement of cyanide photocatalytic degradation using sol-gel ZnO sensitized with cobalt phthalocyanine. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 54, 1-7.	1.1	27
54	Synthesis and characterization of Fe doped mesoporous Al ₂ O ₃ by sol-gel method and its use in trichloroethylene combustion. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 374-384.	1.1	27

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55	Speciation analysis of organoarsenic compounds in livestock feed by microwave-assisted extraction and high performance liquid chromatography coupled to atomic fluorescence spectrometry. <i>Food Chemistry</i> , 2017, 232, 493-500.	4.2	27
56	UV and visible activation of Cr(III)-doped TiO ₂ catalyst prepared by a microwave-assisted sol-gel method during MCPA degradation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12673-12682.	2.7	25
57	Microwave assisted extraction for mercury speciation analysis. <i>Mikrochimica Acta</i> , 2011, 172, 3-14.	2.5	24
58	Evaluation of the Nickel Titanate-Modified Pt Nanostructured Catalyst for the ORR in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2016, 163, F16-F24.	1.3	24
59	Photocatalytic degradation of ibuprofen using TiO ₂ sensitized by Ru(II) polypyridyl complexes. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 31-37.	1.6	24
60	Photo-assisted electrochemical degradation of polychlorinated biphenyls with boron-doped diamond electrodes. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1-10.	1.2	23
61	Characterization of ferrate ion electrogeneration in acidic media by voltammetry and scanning electrochemical microscopy. Assessment of its reactivity on 2,4-dichlorophenoxyacetic acid degradation. <i>Electrochimica Acta</i> , 2012, 64, 196-204.	2.6	22
62	La-, Mn- and Fe-doped zirconia catalysts by sol-gel synthesis: TEM characterization, mass-transfer evaluation and kinetic determination in the catalytic combustion of trichloroethylene. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 371, 81-90.	2.3	21
63	Antibacterial properties, in vitro bioactivity and cell proliferation of titania-wollastonite composites. <i>Ceramics International</i> , 2010, 36, 513-519.	2.3	20
64	Arsenic fractionation in agricultural soil using an automated three-step sequential extraction method coupled to hydride generation-atomic fluorescence spectrometry. <i>Analytica Chimica Acta</i> , 2015, 874, 1-10.	2.6	20
65	Potential of multisyringe chromatography for the on-line monitoring of the photocatalytic degradation of antituberculosis drugs in aqueous solution. <i>Chemosphere</i> , 2015, 121, 68-75.	4.2	20
66	Effect of OMC and MWNTC support on mass activity of Pd Co catalyst for formic acid electro-oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 30349-30358.	3.8	20
67	Comparative Study of the Photocatalytic Degradation of the Herbicide 2,4-D Using WO ₃ /TiO ₂ and Fe ₂ O ₃ /TiO ₂ as Catalysts. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	20
68	Magnetic porous carbons derived from cobalt-based metal-organic frameworks for the solid-phase extraction of sulfonamides. <i>Dalton Transactions</i> , 2020, 49, 8959-8966.	1.6	20
69	Preparation of ternary compound Ba ₃ Li ₂ Ti ₈ O ₂₀ by the sol-gel process. <i>Materials Letters</i> , 2000, 45, 340-344.	1.3	19
70	Analysis of two dye-sensitized methods for improving the sunlight absorption of TiO ₂ using CPC photoreactor at pilot scale. <i>Materials Science in Semiconductor Processing</i> , 2019, 103, 104640.	1.9	18
71	Automated on-line monitoring of the TiO ₂ -based photocatalytic degradation of dimethyl phthalate and diethyl phthalate. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 863-870.	1.6	18
72	Evaluation of B-ZnO on photocatalytic inactivation of <i>Escherichia coli</i> and <i>Enterococcus</i> sp. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104940.	3.3	18

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73	Coupled heterogeneous photocatalysis using a P-TiO ₂ -Fe ₂ O ₃ catalyst and K ₂ S ₂ O ₈ for the efficient degradation of a sulfonamide mixture. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 394, 112485.	2.0	18
74	Performance of Ag-Cu/TiO ₂ photocatalyst prepared by sol-gel method on the inactivation of <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> . <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104539.	3.3	16
75	Sensitive determination of chromium (VI) in paint samples using a membrane optode coupled to a multisyringe flow injection system. <i>Talanta</i> , 2012, 99, 730-736.	2.9	15
76	Photocatalytic reduction of Cr(VI) from agricultural soil column leachates using zinc oxide under UV light irradiation. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 2673-2680.	1.2	15
77	On-line monitoring of the photocatalytic degradation of 2,4-D and dicamba using a solid-phase extraction-multisyringe flow injection system. <i>Journal of Environmental Management</i> , 2013, 129, 377-383.	3.8	15
78	Synthesis of Cr ³⁺ -doped TiO ₂ nanoparticles: characterization and evaluation of their visible photocatalytic performance and stability. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 1505-1517.	1.5	15
79	Conductivity and Viscosity Behavior of Asymmetric Phosphonium Iodides. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4271-4275.	1.2	14
80	Applicability of multisyringe chromatography coupled to on-line solid-phase extraction to the simultaneous determination of dicamba, 2,4-D, and atrazine. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2705-2714.	1.9	14
81	Synthesis, characterization, and photocatalytic performance of FeTiO ₃ /ZnO on ciprofloxacin degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 411, 113186.	2.0	14
82	Performance of Bi ₂ O ₃ /TiO ₂ prepared by sol-gel on p-Cresol degradation under solar and visible light. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4215-4223.	2.7	13
83	Synthesis of Fe ²⁺ -BiOBr ⁻ N by microwave-assisted solvothermal method: Characterization and evaluation of its photocatalytic properties. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105499.	1.9	13
84	Synthesis of Ba ₃ Li ₂ Ti ₈ O ₂₀ sol-gel at basic conditions. <i>Materials Letters</i> , 2002, 54, 62-69.	1.3	12
85	Synthesis, characterization, and visible light-induced photocatalytic evaluation of WO ₃ /NaNbO ₃ composites for the degradation of 2,4-D herbicide. <i>Materials Today Chemistry</i> , 2021, 19, 100406.	1.7	12
86	Optimization of solid-phase extraction of parabens and benzophenones in water samples using a combination of Plackett-Burman and Box-Behnken designs. <i>Journal of Separation Science</i> , 2018, 41, 4488-4497.	1.3	11
87	Comparison of photocatalytic activity of Fe ₂ O ₃ -TiO ₂ /P on the removal of pollutants on liquid and gaseous phase. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104828.	3.3	11
88	Different Iron Oxalate Sources as Catalysts on Pyrazinamide Degradation by the Photo-Fenton Process at Different pH Values. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	10
89	Automated SPE-HPLC-UV methodology for the on-line determination of plasticisers in wastewater samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, , 1-14.	1.8	10
90	Saline irrigation and Zn amendment effect on Cd phytoavailability to Swiss chard (<i>Beta vulgaris</i> L.) grown on a long-term amended agricultural soil: a human risk assessment. <i>Environmental Science and Pollution Research</i> , 2014, 21, 5909-5916.	2.7	9

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91	Modeling of transport phenomena in fixed-bed reactors for the Fischer-Tropsch reaction: a brief literature review. <i>Reviews in Chemical Engineering</i> , 2017, 33, 109-142.	2.3	9
92	Solar Photocatalysis for Degradation of Pharmaceuticals in Hospital Wastewater: Influence of the Type of Catalyst, Aqueous Matrix, and Toxicity Evaluation. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	1.1	9
93	Conductivity studies on $\text{Li}^+\text{Li}_2\text{S}^-\text{Sb}_2\text{S}_3^-\text{P}_2\text{S}_5$ ($\text{X}^{\circ}=\text{Li}$ or Li_3PO_4) glassy system. <i>Ionics</i> , 2006, 12, 325-322.	3.25	8
94	Determination of Pharmaceuticals Discharged in Wastewater from a Public Hospital Using LC-MS/MS Technique. <i>Journal of the Mexican Chemical Society</i> , 2021, 65, .	0.2	8
95	Síntesis y caracterización de nanopartículas de CdS obtenidas por microondas. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2007, 46, 97-101.	0.9	8
96	Preparation and electrochemical behavior of sol-gel $\text{LiNi}_{0.3}\text{Co}_{0.7}\text{M}_x\text{O}_2$ (M=Mn, Al). <i>Ceramics International</i> , 2008, 34, 225-229.	2.3	7
97	Decolorization of Synthetic Azo Dyes by Electrochemically Generated $\cdot\text{OH}$ Radicals in Acidic Medium using Boron Doped Diamond (BDD) Electrodes. <i>ECS Transactions</i> , 2009, 20, 283-290.	0.3	6
98	A multisyringe flow injection method for the determination of thorium in water samples using spectrophotometric detection. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 289, 67-73.	0.7	6
99	Atrazine and 2, 4-D determination in corn samples using microwave assisted extraction and on-line solid-phase extraction coupled to liquid chromatography. <i>Journal of the Mexican Chemical Society</i> , 2018, 62, .	0.2	5
100	Sol-gel titania modified with Ba and Li atoms for catalytic combustion. <i>Journal of Materials Science</i> , 2004, 39, 565-570.	1.7	4
101	In-situ Electrochemical Generation of Ferrate Ion $[\text{Fe(VI)}]$ in Acidic Conditions: A Potential Wastewater Decontamination Process. <i>ECS Transactions</i> , 2008, 15, 411-416.	0.3	4
102	Sensitization of TiO_2 with novel Cu(II) and Ni(II) polypyridine complexes: Evaluation of its photocatalytic activity. <i>Ceramics International</i> , 2014, 40, 14207-14214.	2.3	3
103	A PRELIMINARY STUDY OF THE DISTRIBUTION AND MOBILITY OF MERCURY IN WATER AND SEDIMENTS FROM THE SAN JUAN RIVER WATERSHED, NUEVO LEON MEXICO. <i>Journal of the Chilean Chemical Society</i> , 2010, 55, 486-490.	0.5	2
104	Rapid prediction of hydrogen peroxide concentration electrogenerated with boron doped diamond electrodes. <i>Journal of Advanced Oxidation Technologies</i> , 2017, 20, .	0.5	2
105	Estimation of the radiation field for CPC photocatalytic reactors using a novel six-flux model in two dimensions (SFM-2D). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106392.	3.3	2
106	Nanomaterials for Arsenic Remediation with Boosted Adsorption and Photocatalytic Properties. , 2021, , 2681-2722.		0
107	Nanomaterials for Arsenic Remediation with Boosted Adsorption and Photocatalytic Properties. , 2020, , 1-42.		0