

Reyna Natividad

List of Publications by Year in descending order

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91
papers

1,891
citations

236925

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302126

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docs citations

92
times ranked

2409
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and Characterization of CaO Nanoparticles/NaX Zeolite Catalysts for the Transesterification of Sunflower Oil. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 2665-2670.	3.7	236
2	Synergy of electrochemical and ozonation processes in industrial wastewater treatment. <i>Chemical Engineering Journal</i> , 2010, 165, 71-77.	12.7	84
3	Hydroxyl Radicals quantification by UV spectrophotometry. <i>Electrochimica Acta</i> , 2014, 129, 137-141.	5.2	82
4	W and Mo doped TiO ₂ : Synthesis, characterization and photocatalytic activity. <i>Fuel</i> , 2017, 198, 31-41.	6.4	76
5	Transesterification of Castor Oil: Effect of Catalyst and Co-Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1186-1189.	3.7	71
6	Biodiesel production from used cooking oil and sea sand as heterogeneous catalyst. <i>Fuel</i> , 2014, 138, 143-148.	6.4	56
7	Electro-Fenton and Electro-Fenton-like with in situ electrogeneration of H ₂ O ₂ and catalyst applied to 4-chlorophenol mineralization. <i>Electrochimica Acta</i> , 2016, 195, 246-256.	5.2	55
8	Synergic effect of ozonation and electrochemical methods on oxidation and toxicity reduction: Phenol degradation. <i>Fuel</i> , 2017, 198, 82-90.	6.4	54
9	Photocatalytically enhanced Cr(VI) removal by mixed oxides derived from MeAl (Me:Mg and/or Zn) layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 546-551.	20.2	50
10	Selective hydrogenation reactions: A comparative study of monolith CDC, stirred tank and trickle bed reactors. <i>Catalysis Today</i> , 2007, 128, 108-114.	4.4	41
11	Oxidation kinetics and thermodynamic analysis of chia oil microencapsulated in a whey protein concentrate-polysaccharide matrix. <i>Journal of Food Engineering</i> , 2016, 175, 93-103.	5.2	41
12	Enhanced Photocatalytic Activity of Titania by Co-Doping with Mo and W. <i>Catalysts</i> , 2018, 8, 631.	3.5	41
13	Enhancing the electrochemical Cr(VI) reduction in aqueous solution. <i>Journal of Hazardous Materials</i> , 2011, 185, 1362-1368.	12.4	39
14	4-chlorophenol removal from water using graphite and graphene oxides as photocatalysts. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 33.	3.0	38
15	Paracetamol mineralization by Photo Fenton process catalyzed by a Cu/Fe-PILC under circumneutral pH conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 373, 162-170.	3.9	38
16	Photocatalytic activity of Cu ₂ O supported on multi layers graphene for CO ₂ reduction by water under batch and continuous flow. <i>Catalysis Communications</i> , 2016, 84, 30-35.	3.3	33
17	Wastewater Ozonation Catalyzed by Iron. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 2488-2494.	3.7	32
18	17- β -Estradiol: Significant reduction of its toxicity in water treated by photocatalysis. <i>Science of the Total Environment</i> , 2019, 669, 955-963.	8.0	31

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19	4-Chlorophenol Oxidation Photocatalyzed by a Calcined Mg-Al-Zn Layered Double Hydroxide in a Co-current Downflow Bubble Column. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11544-11552.	3.7	30
20	Effect of the continuous and pulse in situ iron addition onto the performance of an integrated electrochemical-ozone reactor for wastewater treatment. <i>Fuel</i> , 2013, 110, 133-140.	6.4	30
21	Experimental Evaluation of a Three-Phase Downflow Capillary Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 6295-6303.	3.7	28
22	Optimization of biodiesel production from sunflower oil by transesterification using Na ₂ O/NaX and methanol. <i>Catalysis Today</i> , 2014, 220-222, 12-20.	4.4	28
23	Characterization of KNO ₃ /NaX catalyst for sunflower oil transesterification. <i>Fuel</i> , 2013, 110, 63-69.	6.4	27
24	Photo-Fenton oxidation of phenolic compounds catalyzed by iron-PILC. <i>Fuel</i> , 2014, 138, 149-155.	6.4	27
25	The palladium catalysed hydrogenation of 2-butyne-1,4-diol in a monolith bubble column reactor. <i>Catalysis Today</i> , 2003, 79-80, 391-399.	4.4	26
26	Hydrogenation of naphthalene on NiMo- Ni- and Ru/Al ₂ O ₃ catalysts: Langmuir-Hinshelwood kinetic modelling. <i>Catalysis Today</i> , 2008, 130, 471-485.	4.4	26
27	Analysis of the performance of single capillary and multiple capillary (monolith) reactors for the multiphase Pd-catalyzed hydrogenation of 2-Butyne-1,4-Diol. <i>Chemical Engineering Science</i> , 2004, 59, 5431-5438.	3.8	24
28	Deactivation study of K ₂ O/NaX and Na ₂ O/NaX catalysts for biodiesel production. <i>Catalysis Today</i> , 2016, 271, 220-226.	4.4	23
29	Electrochemical Advanced Oxidation Processes: An Overview of the Current Applications to Actual Industrial Effluents. <i>Journal of the Mexican Chemical Society</i> , 2017, 58, .	0.6	22
30	Synergy of Electrochemical/O ₃ Process with Aluminum Electrodes in Industrial Wastewater Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9335-9342.	3.7	21
31	Treatment of industrial effluents by a continuous system: Electrocoagulation + Activated sludge. <i>Bioresource Technology</i> , 2010, 101, 7761-7766.	9.6	20
32	Biodiesel Production from Waste Cooking Oil Catalyzed by a Bifunctional Catalyst. <i>ACS Omega</i> , 2021, 6, 24092-24105.	3.5	20
33	Synthesis, Characterization, and Catalytic Activity of Platinum Nanoparticles on Bovine-Bone Powder: A Novel Support. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-8.	2.7	19
34	Scaling-out selective hydrogenation reactions: From single capillary reactor to monolith. <i>Fuel</i> , 2007, 86, 1304-1312.	6.4	18
35	Ozonation of Indigo Carmine Catalyzed with Fe-Pillared Clay. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-7.	2.5	18
36	Correlating the photocatalytic activity and the optical properties of LiVMoO ₆ photocatalyst under the UV and the visible region of the solar radiation spectrum. <i>Chemical Engineering Journal</i> , 2015, 262, 1284-1291.	12.7	18

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37	Comparison of AOPs Efficiencies on Phenolic Compounds Degradation. Journal of Chemistry, 2016, 2016, 1-8.	1.9	17
38	17 β -Estradiol induces cyto-genotoxicity on blood cells of common carp (Cyprinus carpio). Chemosphere, 2018, 191, 118-127.	8.2	17
39	Thermodynamical and analytical evidence of lead ions chemisorption onto Pimenta dioica. Chemical Engineering Journal, 2011, 166, 814-821.	12.7	16
40	Toward more sustainable photovoltaic solar electrochemical oxidation treatments: Influence of hydraulic and electrical distribution. Journal of Environmental Management, 2021, 285, 112064.	7.8	16
41	Solar CO ₂ hydrogenation by photocatalytic foams. Chemical Engineering Journal, 2022, 435, 134864.	12.7	16
42	Selectivity, Hydrodynamics and Solvent Effects in a Monolith Cocurrent Downflow Contactor (CDC) Reactor. Canadian Journal of Chemical Engineering, 2003, 81, 838-845.	1.7	15
43	Biological hazard evaluation of a pharmaceutical effluent before and after a photo-Fenton treatment. Science of the Total Environment, 2016, 569-570, 830-840.	8.0	15
44	Oxidative stress induced in Hyalella azteca by an effluent from a NSAID-manufacturing plant in Mexico. Ecotoxicology, 2016, 25, 1288-1304.	2.4	15
45	Selective production of dihydroxyacetone and glyceraldehyde by photo-assisted oxidation of glycerol. Catalysis Today, 2020, 358, 149-154.	4.4	15
46	A comparative study of residence time distribution and selectivity in a monolith CDC reactor and a trickle bed reactor. Catalysis Today, 2005, 105, 455-463.	4.4	14
47	Ozonation enhancement by Fe-Cu biometallic particles. Journal of the Taiwan Institute of Chemical Engineers, 2017, 74, 225-232.	5.3	14
48	Multiphase photo-capillary reactors coated with TiO ₂ films: Preparation, characterization and photocatalytic performance. Chemical Engineering Journal, 2016, 304, 39-47.	12.7	13
49	Electrocoagulation of a chocolate industry wastewater in a Downflow column electrochemical reactor. Journal of Water Process Engineering, 2021, 42, 102057.	5.6	13
50	Predicting healthcare expenditure by multimorbidity groups. Health Policy, 2019, 123, 427-434.	3.0	12
51	Kinetic modelling of paracetamol degradation by photocatalysis: Incorporating the competition for photons by the organic molecule and the photocatalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 412, 113252.	3.9	12
52	Modelling and Simulation of the Radiant Field in an Annular Heterogeneous Photoreactor Using a Four-Flux Model. International Journal of Photoenergy, 2018, 2018, 1-16.	2.5	11
53	Kinetics of Transesterification of Safflower Oil to Obtain Biodiesel Using Heterogeneous Catalysis. International Journal of Chemical Reactor Engineering, 2016, 14, 929-938.	1.1	10
54	Estimation of effective diffusion coefficient and its effect on effectiveness factor for HDS catalytic process: A multi-scale approach. Catalysis Today, 2014, 220-222, 113-123.	4.4	9

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55	Ozonation of Indigo Carmine Enhanced by Fe/Pimenta dioica L. Merrill Particles. International Journal of Photoenergy, 2015, 2015, 1-9.	2.5	9
56	Degradation of 4-Chlorophenol in a Batch Electrochemical Reactor Using BDD Electrodes. International Journal of Electrochemical Science, 0, , 4625-4639.	1.3	9
57	Photocatalytic performance of LiAgVMoO ₆ (O ^{1/2}) compounds. Chemical Engineering Journal, 2013, 234, 327-337.	12.7	8
58	Oxidation of 4-Chlorophenol by Mesoporous Titania: Effect of Surface Morphological Characteristics. International Journal of Photoenergy, 2014, 2014, 1-10.	2.5	8
59	Comparative Study of Quick Lime and CaO as Catalysts of Safflower Oil Transesterification. International Journal of Chemical Reactor Engineering, 2016, 14, 909-917.	1.1	8
60	Downflow bubble column electrochemical reactor (DBCER): In-situ production of H ₂ O ₂ and O ₃ to conduct electroperoxone process. Journal of Environmental Chemical Engineering, 2021, 9, 105148.	6.7	7
61	Ultra-Small Platinum Nanoparticles with High Catalytic Selectivity Synthesized by an Eco-friendly Method Supported on Natural Hydroxyapatite. Catalysis Letters, 2019, 149, 3447-3453.	2.6	6
62	E-peroxone process of a chlorinated compound: Oxidant species, degradation pathway and phytotoxicity. Journal of Environmental Chemical Engineering, 2022, 10, 108148.	6.7	6
63	Electrochemical Mineralization of Ibuprofen on BDD Electrodes in an Electrochemical Flow Reactor: Numerical Optimization Approach. Processes, 2020, 8, 1666.	2.8	5
64	Electro-oxidation of 2-chlorophenol with BDD electrodes in a continuous flow electrochemical reactor. Journal of Flow Chemistry, 2020, 10, 437-447.	1.9	5
65	Kinetic modeling of canola oil transesterification catalyzed by quicklime. Journal of Applied Research and Technology, 2018, 16, .	0.9	5
66	Al/Cu-PILC as a Photo-Fenton Catalyst: Paracetamol Mineralization. ACS Omega, 2022, 7, 23821-23832.	3.5	5
67	Importance of Electrode Tailoring in the Coupling of Electrolysis with Renewable Energy. ChemElectroChem, 2020, 7, 2925-2932.	3.4	4
68	Bionanotechnology: Silver Nanoparticles Supported on Bovine Bone Powder Used as Bactericide. Materials, 2020, 13, 462.	2.9	4
69	New material for arsenic (V) removal based on chitosan supported onto modified polypropylene membrane. Environmental Science and Pollution Research, 2022, 29, 1909-1916.	5.3	4
70	CFD analysis of bed textural characteristics on TBR behaviour: Kinetics, scaling, multiscale analysis, and wall effects. Canadian Journal of Chemical Engineering, 2019, 97, 485-499.	1.7	3
71	REMOVAL OF METOPROLOL BY MEANS OF PHOTO-OXIDATION PROCESSES. Catalysis Today, 2021, , .	4.4	3
72	Electrochemical reforming of glycerol into hydrogen in a batch-stirred electrochemical tank reactor equipped with stainless steel electrodes: Parametric optimization, total operating cost, and life cycle assessment. Journal of Environmental Chemical Engineering, 2022, 10, 108108.	6.7	3

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73	Biodiesel Production by Reactive Flash: A Numerical Simulation. International Journal of Chemical Engineering, 2016, 2016, 1-8.	2.4	2
74	Plant-Wide Control of a Reactive Distillation Column on Biodiesel Production. Advances in Intelligent Systems and Computing, 2016, , 107-117.	0.6	2
75	CFD Analysis of BED Textural Characteristics on TBR Behavior: Hydrodynamics and Scaling-up. International Journal of Chemical Reactor Engineering, 2017, 15, .	1.1	2
76	Water Remediation. Journal of Chemistry, 2017, 2017, 1-2.	1.9	2
77	Advanced Oxidation Processes II: Removal of Pharmaceuticals by Photocatalysis. Handbook of Environmental Chemistry, 2018, , 143-155.	0.4	2
78	Multiphase hydrogenation reactors-past, present and future. Special Publication - Royal Society of Chemistry, 2007, , 153-160.	0.0	2
79	Enhancing the ozonation of industrial wastewater with electrochemically generated copper(II) ions. Separation Science and Technology, 2016, 51, 542-549.	2.5	1
80	Nanostructured Metallic Oxides for Water Remediation. Engineering Materials, 2019, , 91-119.	0.6	1
81	Fluorinated and Platinized Titania for Glycerol Oxidation. Materials Proceedings, 2021, 4, 37.	0.2	1
82	Absorption and reaction of CO2 in capillaries. , 0, , 51-74.		1
83	Thermal Hydrolysis of Orange Peel and its Fermentation with Alginate Beads to Produce Ethanol. BioResources, 2017, 12, .	1.0	0
84	Towards Sustainability: Photochemical and Electrochemical Processes Applied for Environmental Protection. International Journal of Photoenergy, 2018, 2018, 1-3.	2.5	0
85	Photo-Fenton Treatment of a Pharmaceutical Industrial Effluent Under Safe pH Conditions. Handbook of Environmental Chemistry, 2020, , 241-259.	0.4	0
86	Enzymatic preparation of structured triacylglycerides containing $\hat{\imath}^3$ -linolenic acid. Biocatalysis and Agricultural Biotechnology, 2020, 28, 101680.	3.1	0
87	Glycerol oxidation by fluorinated and platinized Titania. Ciencia En Desarrollo, 2021, 12, 135-142.	0.1	0
88	IMPROVEMENT STRATEGIES FOR THE ENZYMATIC PRODUCTION OFBIODIESEL IN THE PRESENCE OF PRIMARY ALCOHOLS. Revista Mexicana De Ingeniera Quimica, 2016, 15, 935-942.	0.4	0
89	Biodiesel production as an alternative to reduce the environmental impact of University food courts. , 0, , 37-50.		0
90	Bifunctional catalysts applied to produce biodiesel from waste cooking oil. , 0, , 20-36.		0

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91	Carbon footprint of university food courts and its relationship with type of food consumed. Revista Gestión Universitaria, 0, , 22-28.	0.0	0