Reyna Natividad

List of Publications by Year
in descending order

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91 papers	1,891 citations	236925 25 h-index	302126 39 g-index
92 all docs	92 docs citations	92 times ranked	2409 citing authors

#	Article	IF	Citations
1	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
2	Solar CO2hydrogenation by photocatalytic foams. Chemical Engineering Journal, 2022, 435, 134864.	12.7	16
3	E-peroxone process of a chlorinated compound: Oxidant species, degradation pathway and phytotoxicity. Journal of Environmental Chemical Engineering, 2022, 10, 108148.	6.7	6
4	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
5	Al/Cu-PILC as a Photo-Fenton Catalyst: Paracetamol Mineralization. ACS Omega, 2022, 7, 23821-23832.	3.5	5
6	Glycerol oxidation by fluorinated and platinized Titania. Ciencia En Desarrollo, 2021, 12, 135-142.	0.1	0
7	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
8	Toward more sustainable photovoltaic solar electrochemical oxidation treatments: Influence of hydraulic and electrical distribution. Journal of Environmental Management, 2021, 285, 112064.	7.8	16
9	REMOVAL OF METOPROLOL BY MEANS OF PHOTO-OXIDATION PROCESSES. Catalysis Today, 2021, , .	4.4	3
10	Downflow bubble column electrochemical reactor (DBCER): In-situ production of H2O2 and O3 to conduct electroperoxone process. Journal of Environmental Chemical Engineering, 2021, 9, 105148.	6.7	7
11	Electrocoagulation of a chocolate industry wastewater in a Downflow column electrochemical reactor. Journal of Water Process Engineering, 2021, 42, 102057.	5.6	13
12	Biodiesel Production from Waste Cooking Oil Catalyzed by a Bifunctional Catalyst. ACS Omega, 2021, 6, 24092-24105.	3.5	20
13	Fluorinated and Platinized Titania for Glycerol Oxidation. Materials Proceedings, 2021, 4, 37.	0.2	1
14	Selective production of dihydroxyacetone and glyceraldehyde by photo-assisted oxidation of glycerol. Catalysis Today, 2020, 358, 149-154.	4.4	15
15	Electrochemical Mineralization of Ibuprofen on BDD Electrodes in an Electrochemical Flow Reactor: Numerical Optimization Approach. Processes, 2020, 8, 1666.	2.8	5
16	Photo-Fenton Treatment of a Pharmaceutical Industrial Effluent Under Safe pH Conditions. Handbook of Environmental Chemistry, 2020, , 241-259.	0.4	0
17	Enzymatic preparation of structured triacylglycerides containing Î³-linolenic acid. Biocatalysis and Agricultural Biotechnology, 2020, 28, 101680.	3.1	0
18	Importance of Electrode Tailoring in the Coupling of Electrolysis with Renewable Energy. ChemElectroChem, 2020, 7, 2925-2932.	3.4	4

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19	Bionanotechnology: Silver Nanoparticles Supported on Bovine Bone Powder Used as Bactericide. Materials, 2020, 13, 462.	2.9	4
20	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
21	CFD analysis of bed textural characteristics on TBR behaviour: Kinetics, scalingâ€up, multiscale analysis, and wall effects. Canadian Journal of Chemical Engineering, 2019, 97, 485-499.	1.7	3
22	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
23	17-Î²-Estradiol: Significant reduction of its toxicity in water treated by photocatalysis. Science of the Total Environment, 2019, 669, 955-963.	8.0	31
24	Predicting healthcare expenditure by multimorbidity groups. Health Policy, 2019, 123, 427-434.	3.0	12
25	Nanostructured Metallic Oxides for Water Remediation. Engineering Materials, 2019, , 91-119.	0.6	1
26	Paracetamol mineralization by Photo Fenton process catalyzed by a Cu/Fe-PILC under circumneutral pH conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 373, 162-170.	3.9	38
27	Advanced Oxidation Processes II: Removal of Pharmaceuticals by Photocatalysis. Handbook of Environmental Chemistry, 2018, , 143-155.	0.4	2
28	17Î²-Estradiol induces cyto-genotoxicity on blood cells of common carp (Cyprinus carpio). Chemosphere, 2018, 191, 118-127.	8.2	17
29	Enhanced Photocatalytic Activity of Titania by Co-Doping with Mo and W. Catalysts, 2018, 8, 631.	3.5	41
30	Towards Sustainability: Photochemical and Electrochemical Processes Applied for Environmental Protection. International Journal of Photoenergy, 2018, 2018, 1-3.	2.5	0
31	Synthesis, Characterization, and Catalytic Activity of Platinum Nanoparticles on Bovine-Bone Powder: A Novel Support. Journal of Nanomaterials, 2018, 2018, 1-8.	2.7	19
32	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
33	Kinetic modeling of canola oil transesterification catalyzed by quicklime. Journal of Applied Research and Technology, 2018, 16, .	0.9	5
34	Ozonation enhancement by Feâ€“Cu biometallic particles. Journal of the Taiwan Institute of Chemical Engineers, 2017, 74, 225-232.	5.3	14
35	CFD Analysis of BED Textural Characteristics on TBR Behavior: Hydrodynamics and Scaling-up. International Journal of Chemical Reactor Engineering, 2017, 15, .	1.1	2
36	W and Mo doped TiO2: Synthesis, characterization and photocatalytic activity. Fuel, 2017, 198, 31-41.	6.4	76

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37	Synergic effect of ozonation and electrochemical methods on oxidation and toxicity reduction: Phenol degradation. Fuel, 2017, 198, 82-90.	6.4	54
38	Water Remediation. Journal of Chemistry, 2017, 2017, 1-2.	1.9	2
39	Thermal Hydrolysis of Orange Peel and its Fermentation with Alginate Beads to Produce Ethanol. BioResources, 2017, 12, .	1.0	0
40	Electrochemical Advanced Oxidation Processes: An Overview of the Current Applications to Actual Industrial Effluents. Journal of the Mexican Chemical Society, 2017, 58, .	0.6	22
41	Biodiesel Production by Reactive Flash: A Numerical Simulation. International Journal of Chemical Engineering, 2016, 2016, 1-8.	2.4	2
42	Comparison of AOPs Efficiencies on Phenolic Compounds Degradation. Journal of Chemistry, 2016, 2016, 1-8.	1.9	17
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	Plant-Wide Control of a Reactive Distillation Column on Biodiesel Production. Advances in Intelligent Systems and Computing, 2016, , 107-117.	0.6	2
45	Photocatalytic activity of Cu2O supported on multi layers graphene for CO2 reduction by water under batch and continuous flow. Catalysis Communications, 2016, 84, 30-35.	3.3	33
46	Multiphase photo-capillary reactors coated with TiO2 films: Preparation, characterization and photocatalytic performance. Chemical Engineering Journal, 2016, 304, 39-47.	12.7	13
47	Oxidative stress induced in Hyalella azteca by an effluent from a NSAID-manufacturing plant in Mexico. Ecotoxicology, 2016, 25, 1288-1304.	2.4	15
48	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
49	Enhancing the ozonation of industrial wastewater with electrochemically generated copper(II) ions. Separation Science and Technology, 2016, 51, 542-549.	2.5	1
50	Electro-Fenton and Electro-Fenton-like with in situ electrogeneration of H 2 O 2 and catalyst applied to 4-chlorophenol mineralization. Electrochimica Acta, 2016, 195, 246-256.	5.2	55
51	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
52	Oxidation kinetics and thermodynamic analysis of chia oil microencapsulated in a whey protein concentrate-polysaccharide matrix. Journal of Food Engineering, 2016, 175, 93-103.	5.2	41
53	Deactivation study of K2O/NaX and Na2O/NaX catalysts for biodiesel production. Catalysis Today, 2016, 271, 220-226.	4.4	23
54	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

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55	Ozonation of Indigo Carmine Enhanced by Fe/Pimenta dioicaL. Merrill Particles. International Journal of Photoenergy, 2015, 2015, 1-9.	2.5	9
56	Correlating the photocatalytic activity and the optical properties of LiVMoO6 photocatalyst under the UV and the visible region of the solar radiation spectrum. Chemical Engineering Journal, 2015, 262, 1284-1291.	12.7	18
57	4-chlorophenol removal from water using graphite and graphene oxides as photocatalysts. Journal of Environmental Health Science & Engineering, 2015, 13, 33.	3.0	38
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	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
60	Optimization of biodiesel production from sunflower oil by transesterification using Na2O/NaX and methanol. Catalysis Today, 2014, 220-222, 12-20.	4.4	28
61	Hydroxyl Radicals quantification by UV spectrophotometry. Electrochimica Acta, 2014, 129, 137-141.	5.2	82
62	Photo-Fenton oxidation of phenolic compounds catalyzed by iron-PILC. Fuel, 2014, 138, 149-155.	6.4	27
63	Biodiesel production from used cooking oil and sea sand as heterogeneous catalyst. Fuel, 2014, 138, 143-148.	6.4	56
64	Characterization of KNO3/NaX catalyst for sunflower oil transesterification. Fuel, 2013, 110, 63-69.	6.4	27
65	Photocatalytic performance of Li1â^'xAgxVMoO6 (0â©½xâ©½1) compounds. Chemical Engineering Journal, 2013, 234, 327-337.	12.7	8
66	Photocatalytically enhanced Cr(VI) removal by mixed oxides derived from MeAl (Me:Mg and/or Zn) layered double hydroxides. Applied Catalysis B: Environmental, 2013, 140-141, 546-551.	20.2	50
67	Effect of the continuous and pulse in situ iron addition onto the performance of an integrated electrochemicalâ€“ozone reactor for wastewater treatment. Fuel, 2013, 110, 133-140.	6.4	30
68	Ozonation of Indigo Carmine Catalyzed with Fe-Pillared Clay. International Journal of Photoenergy, 2013, 2013, 1-7.	2.5	18
69	Synergy of Electrochemical/O₃ Process with Aluminum Electrodes in Industrial Wastewater Treatment. Industrial & Engineering Chemistry Research, 2012, 51, 9335-9342.	3.7	21
70	Wastewater Ozonation Catalyzed by Iron. Industrial & Engineering Chemistry Research, 2011, 50, 2488-2494.	3.7	32
71	4-Chlorophenol Oxidation Photocatalyzed by a Calcined Mgâ€“Alâ€“Zn Layered Double Hydroxide in a Co-current Downflow Bubble Column. Industrial & Engineering Chemistry Research, 2011, 50, 11544-11552.	3.7	30
72	Preparation and Characterization of CaO Nanoparticles/NaX Zeolite Catalysts for the Transesterification of Sunflower Oil. Industrial & Engineering Chemistry Research, 2011, 50, 2665-2670.	3.7	236

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73	Enhancing the electrochemical Cr(VI) reduction in aqueous solution. Journal of Hazardous Materials, 2011, 185, 1362-1368.	12.4	39
74	Thermodynamical and analytical evidence of lead ions chemisorption onto Pimenta dioica. Chemical Engineering Journal, 2011, 166, 814-821.	12.7	16
75	Synergy of electrochemical and ozonation processes in industrial wastewater treatment. Chemical Engineering Journal, 2010, 165, 71-77.	12.7	84
76	Treatment of industrial effluents by a continuous system: Electrocoagulation â€“ Activated sludge. Bioresource Technology, 2010, 101, 7761-7766.	9.6	20
77	Transesterification of Castor Oil: Effect of Catalyst and Co-Solvent. Industrial & Engineering Chemistry Research, 2009, 48, 1186-1189.	3.7	71
78	Hydrogenation of naphthalene on NiMo- Ni- and Ru/Al2O3 catalysts: Langmuirâ€“Hinshelwood kinetic modelling. Catalysis Today, 2008, 130, 471-485.	4.4	26
79	Selective hydrogenation reactions: A comparative study of monolith CDC, stirred tank and trickle bed reactors. Catalysis Today, 2007, 128, 108-114.	4.4	41
80	Scaling-out selective hydrogenation reactions: From single capillary reactor to monolith. Fuel, 2007, 86, 1304-1312.	6.4	18
81	Multiphase hydrogenation reactors-past, present and future. Special Publication - Royal Society of Chemistry, 2007, , 153-160.	0.0	2
82	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
83	Experimental Evaluation of a Three-Phase Downflow Capillary Reactor. Industrial & Engineering Chemistry Research, 2005, 44, 6295-6303.	3.7	28
84	Analysis of the performance of single capillary and multiple capillary (monolith) reactors for the multiphase Pd-catalyzed hydrogenation of 2-Butyne-1,4-Diol. Chemical Engineering Science, 2004, 59, 5431-5438.	3.8	24
85	The palladium catalysed hydrogenation of 2-butyne-1,4-diol in a monolith bubble column reactor. Catalysis Today, 2003, 79-80, 391-399.	4.4	26
86	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
87	Degradation of 4-Chlorophenol in a Batch Electrochemical Reactor Using BDD Electrodes. International Journal of Electrochemical Science, 0, , 4625-4639.	1.3	9
88	Biodiesel production as an alternative to reduce the environmental impact of University food courts. , 0, , 37-50.		0
89	Absorption and reaction of CO2 in capillaries. , 0, , 51-74.		1
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 Gestiòn Universitaria, 0, , 22-28.	0.0	0