

Jorge A Aburto

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6359012/jorge-a-aburto-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66
papers

2,082
citations

24
h-index

45
g-index

69
ext. papers

2,345
ext. citations

4
avg, IF

4.81
L-index

#	Paper	IF	Citations
66	Two Environmentally Friendly Alkyl-o-Glucoside-Based Formulations for Hole Cleaning during Heavy and Extra-Heavy Oilfield Drilling. <i>SPE Drilling and Completion</i> , 2022 , 1-10	1.4	
65	Agave and Opuntia Species as Sustainable Feedstocks for Bioenergy and Byproducts. <i>Sustainability</i> , 2021 , 13, 12263	3.6	0
64	Molecular Graph Modularity as a Descriptor for Property Estimation Application to the Viscosity of Biomass-Derived Molecules. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7044-7052	8.3	1
63	Assessing the Cost of Biomass and Bioenergy Production in Agroindustrial Processes. <i>Energies</i> , 2021 , 14, 4181	3.1	4
62	Perspectives on Climate Change Global Challenges for Sustainable 21st Century: Plant-Based Diet, Unavoidable Food Waste Biorefining, and Circular Economy. <i>Sustainability</i> , 2020 , 12, 1976	3.6	30
61	Ultra-low loading of Ni in catalysts supported on mesoporous SiO ₂ and their performance in hydrodeoxygenation of palmitic acid. <i>New Journal of Chemistry</i> , 2020 , 44, 2435-2441	3.6	2
60	Ni-Based heterogeneous catalysts for the transformation of fatty acids into higher yields of O-free hydrocarbons. <i>Green Chemistry</i> , 2020 , 22, 3470-3480	10	5
59	Development of bio-inspired supports based on CaSiO ₂ and their use in hydrodeoxygenation of palmitic acid. <i>Renewable Energy</i> , 2020 , 148, 1034-1040	8.1	3
58	Effect of confinement space on adsorption energy and electronic structure of molecule-metal pairs. <i>Structural Chemistry</i> , 2020 , 31, 233-241	1.8	1
57	Techno-economic analysis and life cycle assessment for energy generation from sugarcane bagasse: Case study for a sugar mill in Mexico. <i>Food and Bioproducts Processing</i> , 2019 , 118, 281-292	4.9	17
56	Economic and environmental impact evaluation of various biomass feedstock for bioethanol production and correlations to lignocellulosic composition. <i>Bioresource Technology Reports</i> , 2019 , 7, 100230	4.1	31
55	Paving the way towards green catalytic materials for green fuels: impact of chemical species on Mo-based catalysts for hydrodeoxygenation.. <i>RSC Advances</i> , 2019 , 9, 18292-18301	3.7	5
54	MoO ₃ -based catalysts supported on SiO ₂ and their performance in hydrodeoxygenation. <i>Materials Letters</i> , 2019 , 251, 226-229	3.3	6
53	Techno-economic and greenhouse gas analyses of lignin valorization to eugenol and phenolic products in integrated ethanol biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 978-993	5.3	20
52	Process simulation and techno-economic analysis of bio-jet fuel and green diesel production Minimum selling prices. <i>Chemical Engineering Research and Design</i> , 2019 , 146, 60-70	5.5	35
51	Tuning redox and chemical characteristics of Mo-based catalysts for bioenergy applications The case of catalysts supported on TiO ₂ or ZrO ₂ . <i>Materials Today Communications</i> , 2019 , 20, 100543	2.5	1
50	Energy-water nexus strategies for the energetic valorization of orange peels based on techno-economic and environmental impact assessment. <i>Food and Bioproducts Processing</i> , 2019 , 117, 380-387	4.9	7

49	Unravelling the chemical reactions of fatty acids and triacylglycerides under hydrodeoxygenation conditions based on a comprehensive thermodynamic analysis. <i>Biomass and Bioenergy</i> , 2018 , 112, 37-44	5.3	15
48	The effect of non-ionic surfactant on the internal corrosion for X52 steel in extra-heavy crude oil-in-water emulsions. <i>Anti-Corrosion Methods and Materials</i> , 2018 , 65, 234-248	0.8	5
47	Refractory Character of 4,6-Dialkyldibenzothiophenes: Structural and Electronic Instabilities Reign Deep Hydrodesulfurization. <i>ChemistrySelect</i> , 2018 , 3, 8849-8856	1.8	7
46	Adsorption of Biomass-Derived Products on MoO: Hydrogen Bonding Interactions under the Spotlight. <i>ACS Omega</i> , 2018 , 3, 14165-14172	3.9	7
45	Conversion of Lignin to Heat and Power, Chemicals or Fuels into the Transition Energy Strategy 2018 ,		3
44	Screening of Ionic Liquids for Pretreatment of Taiwan Grass in Q-Tube Minireactors for Improving Bioethanol Production. <i>Waste and Biomass Valorization</i> , 2017 , 8, 733-742	3.2	12
43	A Study of the Effect of Surfactants on the Aggregation Behavior of Crude Oil Aqueous Dispersions through Steady-State Fluorescence Spectrometry. <i>Applied Spectroscopy</i> , 2017 , 71, 1519-1529	3.1	6
42	A combined theoretical-experimental investigation on the mechanism of lignin pyrolysis: Role of heating rates and residence times. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 128, 208-216	6	28
41	Demulsification of crude oil-in-water emulsions by means of fungal spores. <i>PLoS ONE</i> , 2017 , 12, e0170985	3.7	13
40	Study of Chemical and Enzymatic Hydrolysis of Cellulosic Material to Obtain Fermentable Sugars. <i>Journal of Chemistry</i> , 2017 , 2017, 1-9	2.3	24
39	Technical and economical evaluation of bioethanol production from lignocellulosic residues in Mexico: Case of sugarcane and blue agave bagasses. <i>Chemical Engineering Research and Design</i> , 2016 , 107, 91-101	5.5	60
38	Ozonolysis of alkaline lignin and sugarcane bagasse: Structural changes and their effect on saccharification. <i>Biomass and Bioenergy</i> , 2016 , 94, 167-172	5.3	14
37	Study of the formation and breaking of extra-heavy-crude-oil-in-water emulsions: A proposed strategy for transporting extra heavy crude oils. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 98, 112-122	3.7	46
36	Relative performance of several surfactants used for heavy crude oil emulsions as studied by AFM and force spectroscopy. <i>Journal of Petroleum Science and Engineering</i> , 2015 , 135, 652-659	4.4	1
35	Ionic Liquids as Surfactants: Applications as Demulsifiers of Petroleum Emulsions 2015 ,		10
34	Non-isothermal pyrolysis of pectin: A thermochemical and kinetic approach. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 112, 94-104	6	82
33	Quantitative Analysis of Sulfur in Diesel by Enzymatic Oxidation, Steady-State Fluorescence, and Linear Regression Analysis. <i>Energy & Fuels</i> , 2014 , 28, 403-408	4.1	10
32	Microbial treatment of sulfur-contaminated industrial wastes. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014 , 49, 228-32	2.3	9

31	Amphiphilic Choline Carboxylates as Demulsifiers of Water-in-Crude Oil Emulsions. <i>Tenside, Surfactants, Detergents</i> , 2014 , 51, 313-317	1	13
30	Enhanced Functionality of Peroxidases by Its Immobilization at the Solid-Liquid Interface of Mesoporous Materials and Nanoparticles 2013 , 335-351		1
29	Topological and Electronic Structure of Heterocyclic Compounds Adsorbed on Hydrotreating Catalysts. <i>Catalysis Letters</i> , 2013 , 143, 1354-1361	2.8	5
28	Synergistic effect of alkyl-O-glucoside and -cellobioside biosurfactants as effective emulsifiers of crude oil in water. A proposal for the transport of heavy crude oil by pipeline. <i>Fuel</i> , 2013 , 110, 310-317	7.1	40
27	Microwave-assisted organic synthesis versus conventional heating. A comparative study for Fisher glycosidation of monosaccharides. <i>Comptes Rendus Chimie</i> , 2013 , 16, 427-432	2.7	11
26	Demulsification of heavy crude oil-in-water emulsions: A comparative study between microwave and thermal heating. <i>Fuel</i> , 2013 , 113, 407-414	7.1	132
25	Electronic structure and mesoscopic simulations of nonylphenol ethoxylate surfactants. a combined DFT and DPD study. <i>Molecules</i> , 2013 , 18, 9441-50	4.8	7
24	Enzymatic modification of chitosan with quercetin and its application as antioxidant edible films. <i>Applied Biochemistry and Microbiology</i> , 2012 , 48, 151-158	1.1	35
23	Efficient Microwave-Assisted Synthesis of Ionic Esterified Amino Acids. <i>Molecules</i> , 2011 , 16, 8733-8744	4.8	10
22	Transportation of heavy and extra-heavy crude oil by pipeline: A review. <i>Journal of Petroleum Science and Engineering</i> , 2011 , 75, 274-282	4.4	384
21	Synthesis of silica spheres with neutral and ionic amphiphiles and their interaction with photosensitive spiropyrans. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 121-133	5.3	5
20	Aggregation Behavior of Heavy Crude Oil in Aqueous Solutions by Fluorescence Spectroscopy. <i>Energy & Fuels</i> , 2009 , 23, 4584-4592	4.1	42
19	Transportation of Heavy and Extra-Heavy Crude Oil by Pipeline: A Patent Review for Technological Options. <i>Recent Patents on Chemical Engineering</i> , 2009 , 2, 86-97		6
18	Atypical kinetic behavior of chloroperoxidase-mediated oxidative halogenation of polycyclic aromatic hydrocarbons. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 480, 33-40	4.1	18
17	Semi-continuous biodegradation of carbazole in fuels by biofilm-immobilised cells of Burkholderia sp. strain IMP5GC. <i>Process Biochemistry</i> , 2008 , 43, 1318-1321	4.8	18
16	Immobilization of chloroperoxidase on silica-based materials for 4,6-dimethyl dibenzothiophene oxidation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007 , 48, 90-98		45
15	Ligand recognition by chloroperoxidase using molecular interaction fields and quantum chemistry calculations. <i>Molecular Simulation</i> , 2007 , 33, 649-654	2	14
14	Carbazole biodegradation in gas oil/water biphasic media by a new isolated bacterium Burkholderia sp. strain IMP5GC. <i>Journal of Applied Microbiology</i> , 2006 , 100, 739-45	4.7	27

13	Chloroperoxidase-catalyzed oxidation of 4,6-dimethyldibenzothiophene as dimer complexes: evidence for kinetic cooperativity. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 437, 224-32	4.1	22
12	Stability and catalytic properties of chloroperoxidase immobilized on SBA-16 mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2005 , 83, 193-200	5.3	90
11	Organic Solvent-free Transesterification of Various Starches with Lauric Acid Methyl Ester and Triacyl Glycerides. <i>Starch/Staerke</i> , 2005 , 57, 145-152	2.3	28
10	Hydrogels as adsorbents of organosulphur compounds currently found in diesel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004 , 43, 1587-1595	3.7	39
9	Selective Adsorption of Dibenzothiophene Sulfone by an Imprinted and Stimuli-Responsive Chitosan Hydrogel. <i>Macromolecules</i> , 2004 , 37, 2938-2943	5.5	75
8	Synthesis, characterization, and biodegradability of fatty-acid esters of amylose and starch. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 1440-1451	2.9	142
7	Preparation of Long-chain Esters of Starch Using Fatty Acid Chlorides in the Absence of an Organic Solvent. <i>Starch/Staerke</i> , 1999 , 51, 132-135	2.3	58
6	Free-solvent Synthesis and Properties of Higher Fatty Esters of Starch [Part 2. <i>Starch/Staerke</i> , 1999 , 51, 302-307	2.3	45
5	Preparation of Long-chain Esters of Starch Using Fatty Acid Chlorides in the Absence of an Organic Solvent 1999 , 51, 132		6
4	Properties of octanoated starch and its blends with polyethylene. <i>Carbohydrate Polymers</i> , 1997 , 34, 101-103	2.3	109
3	Properties of fatty-acid esters of starch and their blends with LDPE. <i>Journal of Applied Polymer Science</i> , 1997 , 65, 705-721	2.9	130
2	Techno-Economic Feasibility of Steam and Electric Power Generation from the Gasification of Several Biomass in a Sugarcane Mill. <i>Bioenergy Research</i> ,1	3.1	2
1	Modelling to analyse the process and sustainability performance of forestry-based bioenergy systems. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	2