Jorge A Aburto

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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	Transportation of heavy and extra-heavy crude oil by pipeline: A review. *Journal of Petroleum Science and Engineering*, **2011**, 75, 274-282	4.4	384
65	Synthesis, characterization, and biodegradability of fatty-acid esters of amylose and starch. *Journal of Applied Polymer Science*, **1999**, 74, 1440-1451	2.9	142
64	Demulsification of heavy crude oil-in-water emulsions: A comparative study between microwave and thermal heating. *Fuel*, **2013**, 113, 407-414	7.1	132
63	Properties of fatty-acid esters of starch and their blends with LDPE. *Journal of Applied Polymer Science*, **1997**, 65, 705-721	2.9	130
62	Properties of octanoated starch and its blends with polyethylene. *Carbohydrate Polymers*, **1997**, 34, 101-112	10.3	109
61	Stability and catalytic properties of chloroperoxidase immobilized on SBA-16 mesoporous materials. *Microporous and Mesoporous Materials*, **2005**, 83, 193-200	5.3	90
60	Non-isothermal pyrolysis of pectin: A thermochemical and kinetic approach. *Journal of Analytical and Applied Pyrolysis*, **2015**, 112, 94-104	6	82
59	Selective Adsorption of Dibenzothiophene Sulfone by an Imprinted and Stimuli-Responsive Chitosan Hydrogel. *Macromolecules*, **2004**, 37, 2938-2943	5.5	75
58	Technical and economical evaluation of bioethanol production from lignocellulosic residues in Mexico: Case of sugarcane and blue agave bagasses. *Chemical Engineering Research and Design*, **2016**, 107, 91-101	5.5	60
57	Preparation of Long-chain Esters of Starch Using Fatty Acid Chlorides in the Absence of an Organic Solvent. *Starch/Staerke*, **1999**, 51, 132-135	2.3	58
56	Study of the formation and breaking of extra-heavy-crude-oil-in-water emulsions A proposed strategy for transporting extra heavy crude oils. *Chemical Engineering and Processing: Process Intensification*, **2015**, 98, 112-122	3.7	46
55	Immobilization of chloroperoxidase on silica-based materials for 4,6-dimethyl dibenzothiophene oxidation. *Journal of Molecular Catalysis B: Enzymatic*, **2007**, 48, 90-98		45
54	Free-solvent Synthesis and Properties of Higher Fatty Esters of Starch Part 2. *Starch/Staerke*, **1999**, 51, 302-307	2.3	45
53	Aggregation Behavior of Heavy Crude Oil onic Liquids Solutions by Fluorescence Spectroscopy. *Energy & Fuels*, **2009**, 23, 4584-4592	4.1	42
52	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. *Fuel*, **2013**, 110, 310-317	7.1	40
51	Hydrogels as adsorbents of organosulphur compounds currently found in diesel. *Chemical Engineering and Processing: Process Intensification*, **2004**, 43, 1587-1595	3.7	39
50	Process simulation and techno-economic analysis of bio-jet fuel and green diesel production Minimum selling prices. *Chemical Engineering Research and Design*, **2019**, 146, 60-70	5.5	35

49	Enzymatic modification of chitosan with quercetin and its application as antioxidant edible films. *Applied Biochemistry and Microbiology*, **2012**, 48, 151-158	1.1	35
48	Economic and environmental impact evaluation of various biomass feedstock for bioethanol production and correlations to lignocellulosic composition. *Bioresource Technology Reports*, **2019**, 7, 100230	4.1	31
47	Perspectives on Game Changer Global Challenges for Sustainable 21st Century: Plant-Based Diet, Unavoidable Food Waste Biorefining, and Circular Economy. *Sustainability*, **2020**, 12, 1976	3.6	30
46	A combined theoretical-experimental investigation on the mechanism of lignin pyrolysis: Role of heating rates and residence times. *Journal of Analytical and Applied Pyrolysis*, **2017**, 128, 208-216	6	28
45	Organic Solvent-free Transesterification of Various Starches with Lauric Acid Methyl Ester and Triacyl Glycerides. *Starch/Staerke*, **2005**, 57, 145-152	2.3	28
44	Carbazole biodegradation in gas oil/water biphasic media by a new isolated bacterium Burkholderia sp. strain IMP5GC. *Journal of Applied Microbiology*, **2006**, 100, 739-45	4.7	27
43	Study of Chemical and Enzymatic Hydrolysis of Cellulosic Material to Obtain Fermentable Sugars. *Journal of Chemistry*, **2017**, 2017, 1-9	2.3	24
42	Chloroperoxidase-catalyzed oxidation of 4,6-dimethyldibenzothiophene as dimer complexes: evidence for kinetic cooperativity. *Archives of Biochemistry and Biophysics*, **2005**, 437, 224-32	4.1	22
41	Techno-economic and greenhouse gas analyses of lignin valorization to eugenol and phenolic products in integrated ethanol biorefineries. *Biofuels, Bioproducts and Biorefining*, **2019**, 13, 978-993	5.3	20
40	Atypical kinetic behavior of chloroperoxidase-mediated oxidative halogenation of polycyclic aromatic hydrocarbons. *Archives of Biochemistry and Biophysics*, **2008**, 480, 33-40	4.1	18
39	Semi-continuous biodegradation of carbazole in fuels by biofilm-immobilised cells of Burkholderia sp. strain IMP5GC. *Process Biochemistry*, **2008**, 43, 1318-1321	4.8	18
38	Techno-economic analysis and life cycle assessment for energy generation from sugarcane bagasse: Case study for a sugar mill in Mexico. *Food and Bioproducts Processing*, **2019**, 118, 281-292	4.9	17
37	Unravelling the chemical reactions of fatty acids and triacylglycerides under hydrodeoxygenation conditions based on a comprehensive thermodynamic analysis. *Biomass and Bioenergy*, **2018**, 112, 37-44	5.3	15
36	Ligand recognition by chloroperoxidase using molecular interaction fields and quantum chemistry calculations. *Molecular Simulation*, **2007**, 33, 649-654	2	14
35	Ozonolysis of alkaline lignin and sugarcane bagasse: Structural changes and their effect on saccharification. *Biomass and Bioenergy*, **2016**, 94, 167-172	5.3	14
34	Demulsification of crude oil-in-water emulsions by means of fungal spores. *PLoS ONE*, **2017**, 12, e0170985	3.7	13
33	Amphiphilic Choline Carboxylates as Demulsifiers of Water-in-Crude Oil Emulsions. *Tenside, Surfactants, Detergents*, **2014**, 51, 313-317	1	13
32	Screening of Ionic Liquids for Pretreatment of Taiwan Grass in Q-Tube Minireactors for Improving Bioethanol Production. *Waste and Biomass Valorization*, **2017**, 8, 733-742	3.2	12

31	Microwave-assisted organic synthesis versus conventional heating. A comparative study for Fisher glycosidation of monosaccharides. *Comptes Rendus Chimie*, **2013**, 16, 427-432	2.7	11
30	Quantitative Analysis of Sulfur in Diesel by Enzymatic Oxidation, Steady-State Fluorescence, and Linear Regression Analysis. *Energy & Fuels*, **2014**, 28, 403-408	4.1	10
29	Ionic Liquids as Surfactants Applications as Demulsifiers of Petroleum Emulsions **2015**,		10
28	Efficient Microwave-Assisted Synthesis of Ionic Esterified Amino Acids. *Molecules*, **2011**, 16, 8733-8744	4.8	10
27	Microbial treatment of sulfur-contaminated industrial wastes. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2014**, 49, 228-32	2.3	9
26	Refractory Character of 4,6-Dialkyldibenzothiophenes: Structural and Electronic Instabilities Reign Deep Hydrodesulfurization. *ChemistrySelect*, **2018**, 3, 8849-8856	1.8	7
25	Energy-water nexus strategies for the energetic valorization of orange peels based on techno-economic and environmental impact assessment. *Food and Bioproducts Processing*, **2019**, 117, 380-387	4.9	7
24	Electronic structure and mesoscopic simulations of nonylphenol ethoxylate surfactants. a combined DFT and DPD study. *Molecules*, **2013**, 18, 9441-50	4.8	7
23	Adsorption of Biomass-Derived Products on MoO: Hydrogen Bonding Interactions under the Spotlight. *ACS Omega*, **2018**, 3, 14165-14172	3.9	7
22	A Study of the Effect of Surfactants on the Aggregation Behavior of Crude Oil Aqueous Dispersions through Steady-State Fluorescence Spectrometry. *Applied Spectroscopy*, **2017**, 71, 1519-1529	3.1	6
21	MoO3-based catalysts supported on SiO2 and their performance in hydrodeoxygenation. *Materials Letters*, **2019**, 251, 226-229	3.3	6
20	Transportation of Heavy and Extra-Heavy Crude Oil by Pipeline: A Patent Review for Technological Options. *Recent Patents on Chemical Engineering*, **2009**, 2, 86-97		6
19	Preparation of Long-chain Esters of Starch Using Fatty Acid Chlorides in the Absence of an Organic Solvent **1999**, 51, 132		6
18	Paving the way towards green catalytic materials for green fuels: impact of chemical species on Mo-based catalysts for hydrodeoxygenation.. *RSC Advances*, **2019**, 9, 18292-18301	3.7	5
17	Ni-Based heterogeneous catalysts for the transformation of fatty acids into higher yields of O-free hydrocarbons. *Green Chemistry*, **2020**, 22, 3470-3480	10	5
16	The effect of non-ionic surfactant on the internal corrosion for X52 steel in extra-heavy crude oil-in-water emulsions. *Anti-Corrosion Methods and Materials*, **2018**, 65, 234-248	0.8	5
15	Topological and Electronic Structure of Heterocyclic Compounds Adsorbed on Hydrotreating Catalysts. *Catalysis Letters*, **2013**, 143, 1354-1361	2.8	5
14	Synthesis of silica spheres with neutral and ionic amphiphiles and their interaction with photosensitive spiropyrans. *Microporous and Mesoporous Materials*, **2009**, 118, 121-133	5.3	5

13	Assessing the Cost of Biomass and Bioenergy Production in Agroindustrial Processes. *Energies*, **2021**, 14, 4181	3.1	4
12	Development of bio-inspired supports based on CaSiO2 and their use in hydrodeoxygenation of palmitic acid. *Renewable Energy*, **2020**, 148, 1034-1040	8.1	3
11	Conversion of Lignin to Heat and Power, Chemicals or Fuels into the Transition Energy Strategy **2018**,		3
10	Ultra-low loading of Ni in catalysts supported on mesoporous SiO2 and their performance in hydrodeoxygenation of palmitic acid. *New Journal of Chemistry*, **2020**, 44, 2435-2441	3.6	2
9	Techno-Economic Feasibility of Steam and Electric Power Generation from the Gasification of Several Biomass in a Sugarcane Mill. *Bioenergy Research*,1	3.1	2
8	Modelling to analyse the process and sustainability performance of forestry-based bioenergy systems. *Clean Technologies and Environmental Policy*,1	4.3	2
7	Relative performance of several surfactants used for heavy crude oil emulsions as studied by AFM and force spectroscopy. *Journal of Petroleum Science and Engineering*, **2015**, 135, 652-659	4.4	1
6	Tuning redox and chemical characteristics of Mo-based catalysts for bioenergy applications The case of catalysts supported on TiO2 or ZrO2. *Materials Today Communications*, **2019**, 20, 100543	2.5	1
5	Enhanced Functionality of Peroxidases by Its Immobilization at the Solid iquid Interface of Mesoporous Materials and Nanoparticles **2013**, 335-351		1
4	Molecular Graph Modularity as a Descriptor for Property Estimation Application to the Viscosity of Biomass-Derived Molecules. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7044-7052	8.3	1
3	Effect of confinement space on adsorption energy and electronic structure of molecule-metal pairs. *Structural Chemistry*, **2020**, 31, 233-241	1.8	1
2	Agave and Opuntia Species as Sustainable Feedstocks for Bioenergy and Byproducts. *Sustainability*, **2021**, 13, 12263	3.6	0
1	Two Environmentally Friendly Alkyl-o-Glucoside-Based Formulations for Hole Cleaning during Heavy and Extra-Heavy Oilfield Drilling. *SPE Drilling and Completion*, **2022**, 1-10	1.4	