

Alejandro Montoya

List of Publications by Year in descending order

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59
papers

2,036
citations

236833

25
h-index

243529

44
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all docs

59
docs citations

59
times ranked

2439
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing Lovastatin Production by Re-routing the Precursors Flow of <i>Aspergillus terreus</i> via Metabolic Engineering. <i>Molecular Biotechnology</i> , 2022, 64, 90-99.	1.3	8
2	Comparative Study of the Catalytic Oxidation of Hydrocarbons on Platinum and Palladium Wires and Nanoparticles. <i>Energy & Fuels</i> , 2022, 36, 2044-2057.	2.5	4
3	Substituted Aromatic Aldehyde Decomposition under Hydrothermal Conditions. <i>Energy & Fuels</i> , 2022, 36, 5375-5383.	2.5	1
4	Mechanistic insight into catalytic carbon dioxide hydrogenation to formic acid over Pt-doped boron nitride nanosheets. <i>Molecular Catalysis</i> , 2021, 510, 111675.	1.0	7
5	Hydrothermal Decomposition of Glucose in the Presence of Ammonium. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10129-10138.	1.8	4
6	Selective heterogeneous hydrodeoxygenation of acetophenone over monometallic and bimetallic Pt-Co catalyst. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200346.	1.6	0
7	Biomass-derived nanocarbon materials for biological applications: challenges and prospects. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9668-9678.	2.9	16
8	Graphene oxide laminates intercalated with 2D covalent-organic frameworks as a robust nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9713-9725.	5.2	46
9	Electrochemical oxidation of nitrogen-rich post-hydrothermal liquefaction wastewater. <i>Algal Research</i> , 2020, 48, 101919.	2.4	9
10	Binding and activation of ethylene on tungsten carbide and platinum surfaces. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17332-17342.	1.3	9
11	From ethyl biodiesel to biolubricants: Options for an Indian mustard integrated biorefinery toward a green and circular economy. <i>Industrial Crops and Products</i> , 2019, 137, 597-614.	2.5	30
12	Improved lovastatin production by inhibiting (+)-geodin biosynthesis in <i>Aspergillus terreus</i> . <i>New Biotechnology</i> , 2019, 52, 19-24.	2.4	12
13	Atomic order, electronic structure and thermodynamic stability of nickel aluminate. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25952-25961.	1.3	10
14	Ultrafast hydrothermal assembly of nanocarbon microfibers in near-critical water for 3D microsupercapacitors. <i>Carbon</i> , 2018, 132, 698-708.	5.4	26
15	Mineral sequestration of CO ₂ using saprolite mine tailings in the presence of alkaline industrial wastes. <i>Journal of Cleaner Production</i> , 2018, 188, 686-697.	4.6	20
16	<i>In situ</i> synchrotron XRD analysis of the kinetics of spodumene phase transitions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10753-10761.	1.3	18
17	Reaction Analysis of Diaryl Ether Decomposition under Hydrothermal Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2014-2022.	1.8	6
18	Acid-Catalyzed Ring Opening of Furan in Aqueous Solution. <i>Energy & Fuels</i> , 2018, 32, 4139-4148.	2.5	17

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19	Overexpression of acetyl-CoA carboxylase in <i>Aspergillus terreus</i> to increase lovastatin production. <i>New Biotechnology</i> , 2018, 44, 64-71.	2.4	36
20	The influence of a chloride-based supporting electrolyte on electrodeposited zinc in zinc/bromine flow batteries. <i>Electrochimica Acta</i> , 2018, 292, 903-913.	2.6	9
21	The effect of surface coverage on N ₂ , NO and N ₂ O formation over Pt(111). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25314-25323.	1.3	13
22	Sustainable transformation of fly ash industrial waste into a construction cement blend via CO ₂ carbonation. <i>Journal of Cleaner Production</i> , 2017, 156, 660-669.	4.6	62
23	Growth and lovastatin production by <i>Aspergillus terreus</i> under different carbohydrates as carbon sources. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 10, 379-385.	1.5	11
24	Mechanistic Insights and Kinetic Modeling of Cellobiose Decomposition in Hot Compressed Water. <i>Energy & Fuels</i> , 2017, 31, 2203-2216.	2.5	11
25	Unravelling Some of the Key Transformations in the Hydrothermal Liquefaction of Lignin. <i>ChemSusChem</i> , 2017, 10, 2140-2144.	3.6	26
26	Vertical garden for treating greywater. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
27	N ₂ O formation and dissociation during ammonia combustion: A combined DFT and experimental study. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 637-644.	2.4	5
28	The catalytic oxidation of NH ₃ on Co ₃ O ₄ (110): A theoretical study. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4365-4373.	2.4	15
29	Continuous hydrothermal liquefaction of macroalgae in the presence of organic co-solvents. <i>Algal Research</i> , 2016, 17, 185-195.	2.4	53
30	Effect of the Local Atomic Ordering on the Stability of $\hat{\Gamma}^2$ -Spodumene. <i>Inorganic Chemistry</i> , 2016, 55, 6426-6434.	1.9	9
31	The Interactions Between Chlorides and Zn(001) Surfaces in Zinc/Bromine Flow Battery Electrolytes. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
32	Lovastatin and (+)-geodin production by <i>Aspergillus terreus</i> from crude glycerol. <i>Engineering in Life Sciences</i> , 2015, 15, 220-228.	2.0	24
33	Molecular modelling of the decomposition of NH ₃ over CoO(100). <i>Materials Chemistry and Physics</i> , 2015, 156, 141-149.	2.0	8
34	Kinetic Insights into the Hydrothermal Decomposition of Dihydroxyacetone: A Combined Experimental and Modeling Study. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8437-8447.	1.8	11
35	Two-stage hydrothermal liquefaction of a high-protein microalga. <i>Algal Research</i> , 2015, 8, 15-22.	2.4	140
36	Energy profiles of hydrogen migration in the early stages of lizardite dehydroxylation. <i>Computational Materials Science</i> , 2015, 98, 435-445.	1.4	0

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37	Pre- and post-harvest treatment of macroalgae to improve the quality of feedstock for hydrothermal liquefaction. <i>Algal Research</i> , 2014, 6, 22-31.	2.4	41
38	The role of oxygen during the catalytic oxidation of ammonia on Co ₃ O ₄ (1 0 0). <i>Applied Surface Science</i> , 2014, 316, 355-365.	3.1	18
39	Pilot plant testing of continuous hydrothermal liquefaction of microalgae. <i>Algal Research</i> , 2013, 2, 268-277.	2.4	226
40	Insight into oxygen stability and vacancy formation on Co ₃ O ₄ model slabs. <i>Computational Materials Science</i> , 2013, 72, 15-25.	1.4	29
41	Molecular Dynamics Study of Acid-Catalyzed Hydrolysis of Dimethyl Ether in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8199-8206.	1.2	9
42	Local Site Selectivity and Conformational Structures in the Glycosidic Bond Scission of Cellobiose. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10682-10691.	1.2	29
43	Periodic density functional study of Co ₃ O ₄ surfaces. <i>Chemical Physics Letters</i> , 2011, 502, 63-68.	1.2	72
44	Conformational and Thermodynamic Properties of Gaseous Levulinic Acid. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12323-12329.	1.1	19
45	DFT Analysis of the Reaction Paths of Formaldehyde Decomposition on Silver. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8125-8131.	1.1	28
46	Methanol and Methoxide Decomposition on Silver. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9867-9876.	1.5	29
47	Reactions of Hydroxyl on the Topmost Layer of Ag(111): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1333-1341.	1.5	7
48	Reaction of Hydrogen with Ag(111): Binding States, Minimum Energy Paths, and Kinetics. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17145-17154.	1.2	51
49	Gas-Phase Interaction of H ₂ S with O ₂ : A Kinetic and Quantum Chemistry Study of the Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1057-1062.	1.1	35
50	A DFT Study of Interaction of Carbon Monoxide with Carbonaceous Materials. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1003-1008.	1.2	74
51	CO ₂ adsorption on carbonaceous surfaces: a combined experimental and theoretical study. <i>Carbon</i> , 2003, 41, 29-39.	5.4	111
52	First-Principles Kinetics of CO Desorption from Oxygen Species on Carbonaceous Surface. <i>Journal of Physical Chemistry A</i> , 2002, 106, 4236-4239.	1.1	99
53	Formation of CO precursors during char gasification with O ₂ , CO ₂ and H ₂ O. <i>Fuel Processing Technology</i> , 2002, 77-78, 125-130.	3.7	62
54	Kinetics of nitric oxide desorption from carbonaceous surfaces. <i>Fuel Processing Technology</i> , 2002, 77-78, 453-458.	3.7	19

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55	Adsorption on carbonaceous surfaces: cost-effective computational strategies for quantum chemistry studies of aromatic systems. <i>Carbon</i> , 2002, 40, 1863-1872.	5.4	28
56	CO Desorption from Oxygen Species on Carbonaceous Surface: 1. Effects of the Local Structure of the Active Site and the Surface Coverage. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6757-6764.	1.1	120
57	Spin Contamination in Hartree-Fock and Density Functional Theory Wavefunctions in Modeling of Adsorption on Graphite. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6108-6110.	1.1	150
58	Application of Density Functional Theory to the Study of the Reaction of NO with Char-Bound Nitrogen during Combustion. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8409-8417.	1.1	74
59	CO ₂ strong chemisorption as an estimate of coal char gasification reactivity. <i>Fuel</i> , 1999, 78, 971-977.	3.4	28