

# Diego Valencia

## List of Publications by Year in Descending Order

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

25  
papers

529  
citations

9  
h-index

23  
g-index

25  
ext. papers

590  
ext. citations

6.6  
avg, IF

4.14  
L-index

#	Paper	IF	Citations
25	Molecular Graph Modularity as a Descriptor for Property Estimation Application to the Viscosity of Biomass-Derived Molecules. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 7044-7052	8.3	1
24	Cu/KIT-5 catalysts for hydrogenation of fatty acids: a comprehensive study of the chemical species and their performance. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	
23	Ultra-low loading of Ni in catalysts supported on mesoporous SiO <sub>2</sub> and their performance in hydrodeoxygenation of palmitic acid. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 2435-2441	3.6	2
22	Ni-Based heterogeneous catalysts for the transformation of fatty acids into higher yields of O-free hydrocarbons. <i>Green Chemistry</i> , <b>2020</b> , 22, 3470-3480	10	5
21	Development of bio-inspired supports based on CaSiO <sub>2</sub> and their use in hydrodeoxygenation of palmitic acid. <i>Renewable Energy</i> , <b>2020</b> , 148, 1034-1040	8.1	3
20	Effect of confinement space on adsorption energy and electronic structure of molecule-metal pairs. <i>Structural Chemistry</i> , <b>2020</b> , 31, 233-241	1.8	1
19	Paving the way towards green catalytic materials for green fuels: impact of chemical species on Mo-based catalysts for hydrodeoxygenation.. <i>RSC Advances</i> , <b>2019</b> , 9, 18292-18301	3.7	5
18	MoO <sub>3</sub> -based catalysts supported on SiO <sub>2</sub> and their performance in hydrodeoxygenation. <i>Materials Letters</i> , <b>2019</b> , 251, 226-229	3.3	6
17	Tuning redox and chemical characteristics of Mo-based catalysts for bioenergy applications The case of catalysts supported on TiO <sub>2</sub> or ZrO <sub>2</sub> . <i>Materials Today Communications</i> , <b>2019</b> , 20, 100543	2.5	1
16	Unravelling the chemical reactions of fatty acids and triacylglycerides under hydrodeoxygenation conditions based on a comprehensive thermodynamic analysis. <i>Biomass and Bioenergy</i> , <b>2018</b> , 112, 37-44	5.3	15
15	Refractory Character of 4,6-Dialkyldibenzothiophenes: Structural and Electronic Instabilities Reign Deep Hydrodesulfurization. <i>ChemistrySelect</i> , <b>2018</b> , 3, 8849-8856	1.8	7
14	Insights into the structure-property-activity relationship in molybdenum-doped octahedral molecular sieve manganese oxides for catalytic oxidation. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 6493-6502	5.5	8
13	Adsorption of Biomass-Derived Products on MoO: Hydrogen Bonding Interactions under the Spotlight. <i>ACS Omega</i> , <b>2018</b> , 3, 14165-14172	3.9	7
12	Elucidating the structure of light absorbing styrene carbocation species formed within zeolites. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15050-15058	3.6	3
11	Protonated thiophene-based oligomers as formed within zeolites: understanding their electron delocalization and aromaticity. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 2080-6	3.6	11
10	Combined experimental and computational study of CO oxidation promoted by Nb in manganese oxide octahedral molecular sieves. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 163, 361-369	21.8	37
9	Metal-support interactions revisited by theoretical calculations: The influence of organic ligands for preparing Ni/SiO <sub>2</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2014</b> , 475, 134-139	5.1	9

8	CoMo/SBA-15 catalysts prepared with EDTA and citric acid and their performance in hydrodesulfurization of dibenzothiophene. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 147, 879-887	21.8	107
7	Topological and Electronic Structure of Heterocyclic Compounds Adsorbed on Hydrotreating Catalysts. <i>Catalysis Letters</i> , <b>2013</b> , 143, 1354-1361	2.8	5
6	Behavior of NiMo/SBA-15 catalysts prepared with citric acid in simultaneous hydrodesulfurization of dibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Journal of Catalysis</i> , <b>2013</b> , 304, 29-46	7.3	107
5	Citric acid loading for MoS <sub>2</sub> -based catalysts supported on SBA-15. New catalytic materials with high hydrogenolysis ability in hydrodesulfurization. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 129, 137-145	21.8	83
4	Electronic structure and mesoscopic simulations of nonylphenol ethoxylate surfactants. a combined DFT and DPD study. <i>Molecules</i> , <b>2013</b> , 18, 9441-50	4.8	7
3	Aromaticity of five- and six-membered heterocycles present in crude oils [An electronic description for hydrotreatment process. <i>Fuel</i> , <b>2012</b> , 100, 177-185	7.1	14
2	Kinetic study of NiMo/SBA-15 catalysts prepared with citric acid in hydrodesulfurization of dibenzothiophene. <i>Catalysis Communications</i> , <b>2012</b> , 21, 77-81	3.2	33
1	Effect of the support composition on the characteristics of NiMo and CoMo/(Zr)SBA-15 catalysts and their performance in deep hydrodesulfurization. <i>Catalysis Today</i> , <b>2011</b> , 166, 91-101	5.3	52