

# Alejo Aguirre

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

309  
citations

933447

10  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible deactivation of a Au/Ce <sub>0.62</sub> Zr <sub>0.38</sub> O <sub>2</sub> catalyst in CO oxidation: A systematic study of CO <sub>2</sub> -triggered carbonate inhibition. <i>Journal of Catalysis</i> , 2014, 316, 210-218.	6.2	45
2	Selective detection of reaction intermediates using concentration-modulation excitation DRIFT spectroscopy. <i>Catalysis Today</i> , 2013, 205, 34-40.	4.4	42
3	Design and operational limits of an ATR-FTIR spectroscopic microreactor for investigating reactions at liquid–solid interface. <i>Chemical Engineering Journal</i> , 2014, 243, 197-206.	12.7	31
4	Open-cell foams as catalysts support: A systematic analysis of the mass transfer limitations. <i>Chemical Engineering Journal</i> , 2020, 393, 124656.	12.7	24
5	In-Situ DRIFT Study of Au–Ir/Ceria Catalysts: Activity and Stability for CO Oxidation. <i>Topics in Catalysis</i> , 2016, 59, 347-356.	2.8	23
6	Identification of key reaction intermediates during toluene combustion on a Pd/CeO <sub>2</sub> catalyst using operando modulated DRIFT spectroscopy. <i>Catalysis Today</i> , 2022, 394-396, 225-234.	4.4	19
7	ATR-FTIR Study of the Decomposition of Acetic Anhydride on Fosfotungstic Wells–Dawson Heteropoly Acid Using Concentration-Modulation Excitation Spectroscopy. <i>Topics in Catalysis</i> , 2011, 54, 229-235.	2.8	15
8	Insight into the mechanism of acetonitrile hydrogenation in liquid phase on Pt/Al <sub>2</sub> O <sub>3</sub> by ATR-FTIR. <i>Catalysis Today</i> , 2019, 336, 22-32.	4.4	15
9	ATR-FTIR spectrokinetic analysis of the CO adsorption and oxidation at water/platinum interface. <i>Catalysis Today</i> , 2017, 283, 127-133.	4.4	14
10	Resolution of intermediate surface species by combining modulated infrared spectroscopy and chemometrics. <i>Analytica Chimica Acta</i> , 2019, 1049, 38-46.	5.4	14
11	Al <sub>2</sub> O <sub>3</sub> nanofibers prepared from aluminum Di(sec-butoxide)acetoacetic ester chelate exhibits high surface area and acidity. <i>Journal of Catalysis</i> , 2022, 405, 520-533.	6.2	12
12	Controlling the selectivity in the Fischer-Tropsch synthesis using foam catalysts: An integrated experimental and modeling approach. <i>Chemical Engineering Journal</i> , 2021, 409, 128139.	12.7	10
13	Gold Stabilized with Iridium on Ceria–Niobia Catalyst: Activity and Stability for CO Oxidation. <i>Topics in Catalysis</i> , 2019, 62, 977-988.	2.8	9
14	Rational Design of Bioinspired Nanocomposites with Tunable Catalytic Activity. <i>Crystal Growth and Design</i> , 2021, 21, 4299-4304.	3.0	9
15	Monitoring Reaction Intermediates in Plasma-Driven SO <sub>2</sub> , NO, and NO <sub>2</sub> Remediation Chemistry Using In Situ SERS Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 6421-6427.	6.5	8
16	Design of an optimized DRIFT cell/microreactor for spectrokinetic investigations of surface reaction mechanisms. <i>Molecular Catalysis</i> , 2020, 481, 100628.	2.0	6
17	Highly disperse CeO <sub>2</sub> nanoparticles on MgO hexagonal plates as oxidation catalyst. <i>Applied Catalysis A: General</i> , 2021, 623, 118282.	4.3	6
18	Propoxylation of fatty amines: Switching from batch to flow. <i>Journal of Advanced Manufacturing and Processing</i> , 2020, 2, e10042.	2.4	3

#	ARTICLE	IF	CITATIONS
19	The role of vapor-liquid equilibria during the Fischer-Tropsch Synthesis: A modeling study. Chemical Engineering Science, 2021, 233, 116394.	3.8	3
20	Tuning the catalytic acidity in Al <sub>2</sub> O <sub>3</sub> nanofibers with mordenite nanocrystals for dehydration reactions. Catalysis Science and Technology, 2022, 12, 4243-4254.	4.1	1