

# Sebastián E Collins

## List of Publications by Year in descending order

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62  
papers

2,564  
citations

172457

29  
h-index

189892

50  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3010  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Lipase-Catalyzed Interesterification of Fully and Partially Hydrogenated Soybean Oil Blends for Bioparaffin Production. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 3254-3262.	3.7	0
3	Toluene Adsorption on CeO <sub>2</sub> (111) Studied by FTIR and DFT. <i>Topics in Catalysis</i> , 2022, 65, 934-943.	2.8	3
4	CO <sub>2</sub> hydrogenation to methanol on Ga <sub>2</sub> O <sub>3</sub> -Pd/SiO <sub>2</sub> catalysts: Dual oxide-metal sites or (bi)metallic surface sites?. <i>Catalysis Today</i> , 2021, 381, 154-162.	4.4	32
5	ROS-generating rare-earth coordination networks for photodynamic inactivation of <i>Candida albicans</i> . <i>Dalton Transactions</i> , 2021, 50, 5853-5864.	3.3	4
6	Bio-paraffin from Soybean Oil as Eco-friendly Alternative to Mineral Waxes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 5364-5373.	3.7	3
7	Catalytic and molecular insights of the esterification of ibuprofen and ketoprofen with glycerol. <i>Molecular Catalysis</i> , 2021, 513, 111811.	2.0	9
8	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
9	Design of an optimized DRIFT cell/microreactor for spectrokinetic investigations of surface reaction mechanisms. <i>Molecular Catalysis</i> , 2020, 481, 100628.	2.0	6
10	Controlling CO <sub>2</sub> Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19983-19989.	13.8	114
11	Controlled selectivity for ethanol steam reforming reaction over doped CeO <sub>2</sub> surfaces: The role of gallium. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119103.	20.2	29
12	Tailored Brønsted and Lewis surface acid sites of the phosphotungstic Wells Dawson heteropoly-acid. <i>Applied Surface Science</i> , 2019, 495, 143565.	6.1	15
13	6th San Luis Conference on Surfaces, Interfaces and Catalysis. <i>Topics in Catalysis</i> , 2019, 62, 805-807.	2.8	0
14	Theoretical and FTIR Investigations of the Acetonitrile Hydrogenation Pathways on Platinum. <i>Topics in Catalysis</i> , 2019, 62, 1076-1085.	2.8	11
15	Influence of {111} nanofaceting on the dynamics of CO adsorption and oxidation over Au supported on CeO <sub>2</sub> nanocubes: An operando DRIFT insight. <i>Catalysis Today</i> , 2019, 336, 90-98.	4.4	22
16	Influence of Water on Enzymatic Esterification of Racemic Ketoprofen with Ethanol in a Solvent-Free System. <i>Topics in Catalysis</i> , 2019, 62, 968-976.	2.8	7
17	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
18	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

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19	Resolution of intermediate surface species by combining modulated infrared spectroscopy and chemometrics. <i>Analytica Chimica Acta</i> , 2019, 1049, 38-46.	5.4	14
20	Crosslinkable acrylic-melamine latex produced by miniemulsion polymerization. <i>Progress in Organic Coatings</i> , 2018, 118, 82-90.	3.9	15
21	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
22	Synergetic effect of bimetallic Au-Ru/TiO <sub>2</sub> catalysts for complete oxidation of methanol. <i>Applied Catalysis B: Environmental</i> , 2017, 207, 79-92.	20.2	56
23	Molecular recognition of an acyl-enzyme intermediate on the lipase B from <i>Candida antarctica</i> . <i>Catalysis Science and Technology</i> , 2017, 7, 1953-1964.	4.1	12
24	Insights on hydride formation over cerium-gallium mixed oxides: A mechanistic study for efficient H <sub>2</sub> dissociation. <i>Journal of Catalysis</i> , 2017, 345, 258-269.	6.2	32
25	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
26	Molecular structure and thermal stability of the oxide-supported phosphotungstic Wells-Dawson heteropolyacid. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8097-8105.	2.8	5
27	Promoted ceria catalysts for alkyne semi-hydrogenation. <i>Journal of Catalysis</i> , 2015, 324, 69-78.	6.2	65
28	Towards a green enantiomeric esterification of R/S-ketoprofen: A theoretical and experimental investigation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 118, 52-61.	1.8	18
29	In situ FTIR and Raman study on the distribution and reactivity of surface vanadia species in V <sub>2</sub> O <sub>5</sub> /CeO <sub>2</sub> catalysts. <i>Journal of Molecular Catalysis A</i> , 2015, 408, 75-84.	4.8	25
30	Critical Influence of Nanofaceting on the Preparation and Performance of Supported Gold Catalysts. <i>ACS Catalysis</i> , 2015, 5, 3504-3513.	11.2	53
31	Understanding the Role of Oxygen Vacancies in the Water Gas Shift Reaction on Ceria-Supported Platinum Catalysts. <i>ACS Catalysis</i> , 2014, 4, 2088-2096.	11.2	176
32	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
33	Photocatalytic hydrogen production by Au-MxOy (M Ag, Cu, Ni) catalysts supported on TiO <sub>2</sub> . <i>Catalysis Communications</i> , 2014, 47, 1-6.	3.3	58
34	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
35	Infrared and Raman Investigation of Supported Phosphotungstic Wells-Dawson Heteropolyacid. <i>Current Catalysis</i> , 2014, 3, 199-205.	0.5	3
36	Selective detection of reaction intermediates using concentration-modulation excitation DRIFT spectroscopy. <i>Catalysis Today</i> , 2013, 205, 34-40.	4.4	42

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37	Surface Reduction Mechanism of Cerium-Gallium Mixed Oxides with Enhanced Redox Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8822-8831.	3.1	33
38	Esterification of R/S-ketoprofen with 2-propanol as reactant and solvent catalyzed by Novozym® 435 at selected conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 83, 108-119.	1.8	20
39	The role of Pd-Ga bimetallic particles in the bifunctional mechanism of selective methanol synthesis via CO <sub>2</sub> hydrogenation on a Pd/Ga <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of Catalysis</i> , 2012, 292, 90-98.	6.2	136
40	Infrared spectroscopic study of carbon dioxide adsorption on the surface of cerium-gallium mixed oxides. <i>Catalysis Today</i> , 2012, 180, 9-18.	4.4	45
41	Investigation of the structure and proteolytic activity of papain in aqueous miscible organic media. <i>Process Biochemistry</i> , 2012, 47, 47-56.	3.7	24
42	Acylation Capacity of the Phosphotungstic Wells-Dawson Heteropoly Acid: Intermediate Reactive Species. <i>Journal of Physical Chemistry C</i> , 2011, 115, 700-709.	3.1	15
43	FTIR-ATR characterization of free <i>Rhizomucor meihei</i> lipase (RML), Lipozyme RM IM and chitosan-immobilized RML. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 220-228.	1.8	40
44	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
45	Gold Catalysts Supported on Cerium-Gallium Mixed Oxide for the Carbon Monoxide Oxidation and Water Gas Shift Reaction. <i>Topics in Catalysis</i> , 2011, 54, 201-209.	2.8	31
46	CO Oxidation Activity of a Au/Ceria-Zirconia Catalyst Prepared by Deposition-Precipitation with Urea. <i>Topics in Catalysis</i> , 2011, 54, 931-940.	2.8	23
47	Fully Reversible Metal Deactivation Effects in Gold/Ceria-Zirconia Catalysts: Role of the Redox State of the Support. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9744-9748.	13.8	42
48	Effect of gallia doping on the acid-base and redox properties of ceria. <i>Applied Catalysis A: General</i> , 2010, 388, 202-210.	4.3	36
49	Methanol synthesis from CO <sub>2</sub> /H <sub>2</sub> using Ga <sub>2</sub> O <sub>3</sub> -Pd/silica catalysts: Kinetic modeling. <i>Chemical Engineering Journal</i> , 2009, 150, 204-212.	12.7	100
50	Stability of formate species on $\gamma$ -Ga <sub>2</sub> O <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1397.	2.8	58
51	Heats of adsorption and activation energies of surface processes measured by infrared spectroscopy. <i>Journal of Molecular Catalysis A</i> , 2008, 281, 73-78.	4.8	13
52	Adsorption and Decomposition of Methanol on Gallium Oxide Polymorphs. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14988-15000.	3.1	40
53	Hydrogen Interaction with a Ceria-Zirconia Supported Gold Catalyst. Influence of CO Co-adsorption and Pretreatment Conditions. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14371-14379.	3.1	65
54	Infrared Spectroscopic Study of the Carbon Dioxide Adsorption on the Surface of Ga <sub>2</sub> O <sub>3</sub> Polymorphs. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5498-5507.	2.6	147

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55	Methanol Adsorption on the $\gamma$ -Ga <sub>2</sub> O <sub>3</sub> Surface with Oxygen Vacancies: A Theoretical and Experimental Approach. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11847-11853.	2.6	29
56	Mechanism of the decomposition of adsorbed methanol over a Pd/ $\gamma$ -Ga <sub>2</sub> O <sub>3</sub> catalyst. <i>Applied Catalysis A: General</i> , 2005, 295, 126-133.	4.3	42
57	Hydrogen adsorption on $\gamma$ -Ga <sub>2</sub> O <sub>3</sub> (100) surface containing oxygen vacancies. <i>Surface Science</i> , 2005, 575, 171-180.	1.9	49
58	Hydrogen Spillover in Ga <sub>2</sub> O <sub>3</sub> @Pd/SiO <sub>2</sub> Catalysts for Methanol Synthesis from CO <sub>2</sub> /H <sub>2</sub> . <i>Catalysis Letters</i> , 2005, 103, 83-88.	2.6	97
59	Hydrogen Chemisorption on Gallium Oxide Polymorphs. <i>Langmuir</i> , 2005, 21, 962-970.	3.5	102
60	An infrared study of the intermediates of methanol synthesis from carbon dioxide over Pd/-GaO. <i>Journal of Catalysis</i> , 2004, 226, 410-421.	6.2	232
61	Gallium@Hydrogen Bond Formation on Gallium and Gallium@Palladium Silica-Supported Catalysts. <i>Journal of Catalysis</i> , 2002, 211, 252-264.	6.2	80
62	Gallium@Hydrogen Bond Formation on Gallium and Gallium@Palladium Silica-Supported Catalysts. <i>Journal of Catalysis</i> , 2002, 211, 252-264.	6.2	57