Gonzalo Prieto

List of Publications by Year
in descending order

47 papers	5,799 citations	159585 30 h-index	182427 51 g-index
54 all docs	54 docs citations	54 times ranked	9381 citing authors

#	Article	IF	Citations
1	Metalâ€“organic framework nanosheets in polymer composite materials for gas separation. Nature Materials, 2015, 14, 48-55.	27.5	1,780
2	Hollow Nano- and Microstructures as Catalysts. Chemical Reviews, 2016, 116, 14056-14119.	47.7	634
3	Towards stable catalysts by controlling collective properties of supported metal nanoparticles. Nature Materials, 2013, 12, 34-39.	27.5	606
4	Cobalt particle size effects in Fischerâ€“Tropsch synthesis: structural and in situ spectroscopic characterisation on reverse micelle-synthesised Co/ITQ-2 model catalysts. Journal of Catalysis, 2009, 266, 129-144.	6.2	342
5	Structure sensitivity of Cu and CuZn catalysts relevant to industrial methanol synthesis. Nature Communications, 2016, 7, 13057.	12.8	218
6	Design and Synthesis of Copperâ€“Cobalt Catalysts for the Selective Conversion of Synthesis Gas to Ethanol and Higher Alcohols. Angewandte Chemie - International Edition, 2014, 53, 6397-6401.	13.8	209
7	Carbon Dioxide Hydrogenation into Higher Hydrocarbons and Oxygenates: Thermodynamic and Kinetic Bounds and Progress with Heterogeneous and Homogeneous Catalysis. ChemSusChem, 2017, 10, 1056-1070.	6.8	154
8	Cobalt supported on morphologically tailored SBA-15 mesostructures: The impact of pore length on metal dispersion and catalytic activity in the Fischerâ€“Tropsch synthesis. Applied Catalysis A: General, 2009, 367, 146-156.	4.3	134
9	Nanofibrous Î³-Al2O3 as support for Co-based Fischerâ€“Tropsch catalysts: Pondering the relevance of diffusional and dispersion effects on catalytic performance. Journal of Catalysis, 2009, 263, 292-305.	6.2	117
10	Breaking the dispersion-reducibility dependence in oxide-supported cobalt nanoparticles. Journal of Catalysis, 2007, 245, 470-476.	6.2	100
11	Influence of the preparative route on the properties of WOxâ€“ZrO2 catalysts: A detailed structural, spectroscopic, and catalytic study. Journal of Catalysis, 2007, 248, 288-302.	6.2	100
12	Prospects of Heterogeneous Hydroformylation with Supported Single Atom Catalysts. Journal of the American Chemical Society, 2020, 142, 5087-5096.	13.7	98
13	Cobalt-Catalyzed Fischerâ€“Tropsch Synthesis: Chemical Nature of the Oxide Support as a Performance Descriptor. ACS Catalysis, 2015, 5, 3323-3335.	11.2	91
14	Oneâ€Pot Cooperation of Singleâ€Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerizationâ€Hydrosilylation Process. Angewandte Chemie - International Edition, 2020, 59, 5806-5815.	13.8	76
15	Metal-Specific Reactivity in Single-Atom Catalysts: CO Oxidation on 4d and 5d Transition Metals Atomically Dispersed on MgO. Journal of the American Chemical Society, 2020, 142, 14890-14902.	13.7	75
16	A Polyphenylene Support for Pd Catalysts with Exceptional Catalytic Activity. Angewandte Chemie - International Edition, 2014, 53, 8645-8648.	13.8	72
17	Quantitative Relationship between Support Porosity and the Stability of Pore-Confined Metal Nanoparticles Studied on CuZnO/SiO₂ Methanol Synthesis Catalysts. ACS Nano, 2014, 8, 2522-2531.	14.6	71
18	The Application of Zeolites and Periodic Mesoporous Silicas in the Catalytic Conversion of Synthesis Gas. Topics in Catalysis, 2009, 52, 75-90.	2.8	69

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19	The impact of pre-reduction thermal history on the metal surface topology and site-catalytic activity of Fischerâ€“Tropsch catalysts. Journal of Catalysis, 2013, 302, 37-48.	6.2	69
20	New insights into the role of the electronic properties of oxide promoters in Rh-catalyzed selective synthesis of oxygenates from synthesis gas. Journal of Catalysis, 2011, 280, 274-288.	6.2	64
21	Interplay between pore size and nanoparticle spatial distribution: Consequences for the stability of CuZn/SiO2 methanol synthesis catalysts. Journal of Catalysis, 2013, 303, 31-40.	6.2	56
22	Design of Cobalt Fischerâ€“Tropsch Catalysts for the Combined Production of Liquid Fuels and Olefin Chemicals from Hydrogen-Rich Syngas. ACS Catalysis, 2021, 11, 4784-4798.	11.2	46
23	2D Metal Organic Frameworkâ€Graphitic Carbon Nanocomposites as Precursors for Highâ€Performance O₂â€Evolution Electrocatalysts. Advanced Energy Materials, 2018, 8, 1802404.	19.5	43
24	The key role of support surface tuning during the preparation of catalysts from reverse micellar-synthesized metal nanoparticles. Catalysis Communications, 2007, 8, 1479-1486.	3.3	40
25	Surface Lewis Acidity of Periphery Oxide Species as a General Kinetic Descriptor for CO₂ Hydrogenation to Methanol on Supported Copper Nanoparticles. ACS Catalysis, 2019, 9, 10409-10417.	11.2	40
26	The Yin and Yang in the Development of Catalytic Processes: Catalysis Research and Reaction Engineering. Angewandte Chemie - International Edition, 2015, 54, 3222-3239.	13.8	37
27	Intermediate Product Regulation in Tandem Solid Catalysts with Multimodal Porosity for Highâ€Yield Synthetic Fuel Production. Angewandte Chemie - International Edition, 2017, 56, 11480-11484.	13.8	34
28	CO₂ Reduction over Mo₂C-Based Catalysts. ACS Catalysis, 2021, 11, 1624-1639.	11.2	34
29	Hydroconversion of n-hexadecane over Pt/WOxâ€“ZrO2 catalysts prepared by a PVA-template coprecipitation route. Applied Catalysis A: General, 2006, 309, 224-236.	4.3	33
30	Towards â€˜greenerâ€™ catalyst manufacture: Reduction of wastewater from the preparation of Cu/ZnO/Al2O3 methanol synthesis catalysts. Catalysis Today, 2013, 215, 142-151.	4.4	32
31	Hydrothermal Stability of High-Surface-Area Î±-Al₂O₃ and Its Use as a Support for Hydrothermally Stable Fischerâ€“Tropsch Synthesis Catalysts. Chemistry of Materials, 2020, 32, 4369-4374.	6.7	28
32	Mesoscale Characterization of Nanoparticles Distribution Using Xâ€ray Scattering. Angewandte Chemie - International Edition, 2015, 54, 11804-11808.	13.8	22
33	<i>In Situ</i> Hydrocracking of Fischerâ€“Tropsch Hydrocarbons: CO-Prompted Diverging Reaction Pathways for Paraffin and Î±-Olefin Primary Products. ACS Catalysis, 2016, 6, 4229-4238.	11.2	21
34	Oneâ€Pot Cooperation of Singleâ€Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerizationâ€Hydrosilylation Process. Angewandte Chemie, 2020, 132, 5855-5864.	2.0	21
35	Entrance Size Analysis of Silica Materials with Cagelike Pore Structure by Thermoporometry. Journal of Physical Chemistry C, 2012, 116, 23383-23393.	3.1	19
36	Small-Angle Scattering Analysis of Empty or Loaded Hierarchical Porous Materials. Journal of Physical Chemistry C, 2016, 120, 1488-1506.	3.1	19

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37	Unlocking mixed oxides with unprecedented stoichiometries from heterometallic metal-organic frameworks for the catalytic hydrogenation of CO2. Chem Catalysis, 2021, 1, 364-382.	6.1	18
38	Engineering and Sizing Nanoreactors To Confine Metal Complexes for Enhanced Catalytic Performance. ACS Catalysis, 2014, 4, 3791-3796.	11.2	17
39	Bridging the gap between insightful simplicity and successful complexity: From fundamental studies on model systems to technical catalysts. Journal of Catalysis, 2015, 328, 59-71.	6.2	17
40	Direct Conversion of Syngas to Higher Alcohols via Tandem Integration of Fischerâ€“Tropsch Synthesis and Reductive Hydroformylation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
41	Directional freeze-cast hybrid-backbone meso-macroporous bodies as micromonolith catalysts for gas-to-liquid processes. Journal of Materials Chemistry A, 2018, 6, 21978-21989.	10.3	12
42	Intermediate Product Regulation in Tandem Solid Catalysts with Multimodal Porosity for Highâ€Yield Synthetic Fuel Production. Angewandte Chemie, 2017, 129, 11638-11642.	2.0	10
43	Recycling of CO₂ by Hydrogenation of Carbonate Derivatives to Methanol: Tuning Copperâ€“Oxide Promotion Effects in Supported Catalysts. ChemSusChem, 2020, 13, 2043-2052.	6.8	10
44	Bottom-up assembly of bimetallic nanocluster catalysts from oxide-supported single-atom precursors. Journal of Materials Chemistry A, 2021, 9, 8401-8415.	10.3	8
45	Supported Fe_xNi_y catalysts for the co-activation of CO₂ and small alkanes. Faraday Discussions, 2021, 229, 208-231.	3.2	6
46	Direct Conversion of Syngas to Higher Alcohols via Tandem Integration of Fischerâ€“Tropsch Synthesis and Reductive Hydroformylation. Angewandte Chemie, 2022, 134, .	2.0	5
47	Synthetic ferripyrophyllite: preparation, characterization and catalytic application. Dalton Transactions, 2021, 50, 850-857.	3.3	3