Alexandre Goguet

List of Publications by Year
in descending order

45 papers	1,652 citations	331670 21 h-index	289244 40 g-index
45 all docs	45 docs citations	45 times ranked	2355 citing authors

#	Article	IF	Citations
1	Spectrokinetic Investigation of Reverse Water-Gas-Shift Reaction Intermediates over a Pt/CeO2Catalyst. Journal of Physical Chemistry B, 2004, 108, 20240-20246.	2.6	306
2	Metal Redispersion Strategies for Recycling of Supported Metal Catalysts: A Perspective. ACS Catalysis, 2015, 5, 3430-3445.	11.2	154
3	Sustaining metalâ€“organic frameworks for waterâ€“gas shift catalysis by non-thermal plasma. Nature Catalysis, 2019, 2, 142-148.	34.4	123
4	Nonâ€Thermal Plasma Activation of Goldâ€Based Catalysts for Lowâ€Temperature Waterâ€“Gas Shift Catalysis. Angewandte Chemie - International Edition, 2017, 56, 5579-5583.	13.8	77
5	Increased Dispersion of Supported Gold during Methanol Carbonylation Conditions. Journal of the American Chemical Society, 2009, 131, 6973-6975.	13.7	75
6	Structural selectivity of supported Pd nanoparticles for catalytic NH3 oxidation resolved using combined operando spectroscopy. Nature Catalysis, 2019, 2, 157-163.	34.4	74
7	Redispersion of Gold Supported on Oxides. ACS Catalysis, 2012, 2, 552-560.	11.2	73
8	Evolution and Enabling Capabilities of Spatially Resolved Techniques for the Characterization of Heterogeneously Catalyzed Reactions. ACS Catalysis, 2016, 6, 1356-1381.	11.2	70
9	Selective Hydrogenation of Î±,Î²â€Unsaturated Aldehydes and Ketones using Novel Manganese Oxide and Platinum Supported on Manganese Oxide Octahedral Molecular Sieves as Catalysts. ChemCatChem, 2013, 5, 506-512.	3.7	62
10	Ambient Temperature Hydrocarbon Selective Catalytic Reduction of NO_x Using Atmospheric Pressure Nonthermal Plasma Activation of a Ag/Al₂O₃ Catalyst. ACS Catalysis, 2014, 4, 666-673.	11.2	62
11	SpaciMS: spatial and temporal operando resolution of reactions within catalytic monoliths. Analyst, The, 2010, 135, 2260.	3.5	60
12	Probing the Role of a Nonâ€Thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. Angewandte Chemie - International Edition, 2017, 56, 9351-9355.	13.8	58
13	Critical role of water in the direct oxidation of CO and hydrocarbons in diesel exhaust after treatment catalysis. Applied Catalysis B: Environmental, 2014, 147, 764-769.	20.2	42
14	Gold imidazolium-based ionic liquids, efficient catalysts for cycloisomerization of Î³-acetylenic carboxylic acids. New Journal of Chemistry, 2009, 33, 102-106.	2.8	29
15	Application of halohydrocarbons for the re-dispersion of gold particles. Catalysis Science and Technology, 2014, 4, 729.	4.1	26
16	Combined In Situ XAFS/DRIFTS Studies of the Evolution of Nanoparticle Structures from Molecular Precursors. Chemistry of Materials, 2017, 29, 7515-7523.	6.7	26
17	Spatial Profiling of a Pd/Al₂O₃ Catalyst during Selective Ammonia Oxidation. ACS Catalysis, 2021, 11, 2141-2149.	11.2	25
18	An in situ spatially resolved method to probe gas phase reactions through a fixed bed catalyst. Catalysis Science and Technology, 2012, 2, 1811.	4.1	24

#	Article	IF	Citations
19	Evaluation of an in situ spatial resolution instrument for fixed beds through the assessment of the invasiveness of probes and a comparison with a micro-kinetic model. Journal of Catalysis, 2014, 319, 239-246.	6.2	24
20	An in situ spatially resolved analytical technique to simultaneously probe gas phase reactions and temperature within the packed bed of a plug flow reactor. Analyst, The, 2013, 138, 2858.	3.5	22
21	Remarkable stability of ionic gold supported on sulfated lanthanum oxide. Chemical Communications, 2009, , 4889.	4.1	21
22	Unraveling the H₂ Promotional Effect on Palladium-Catalyzed CO Oxidation Using a Combination of Temporally and Spatially Resolved Investigations. ACS Catalysis, 2018, 8, 8255-8262.	11.2	19
23	Combined spatially resolved operando spectroscopy: New insights into kinetic oscillations of CO oxidation on Pd/Î³-Al2O3. Journal of Catalysis, 2019, 373, 201-208.	6.2	19
24	Activation of Alkanes by Goldâ€Modified Lanthanum Oxide. ChemCatChem, 2011, 3, 394-398.	3.7	17
25	Non-thermal-plasma-activated de-NO _x catalysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170054.	3.4	17
26	A design of a fixed bed plasma DRIFTS cell for studying the NTP-assisted heterogeneously catalysed reactions. Catalysis Science and Technology, 2020, 10, 1458-1466.	4.1	17
27	Investigation of the oxygen storage capacity behaviour of three way catalysts using spatio-temporal analysis. Applied Catalysis B: Environmental, 2019, 258, 117918.	20.2	16
28	Nonâ€Thermal Plasma Activation of Goldâ€Based Catalysts for Lowâ€Temperature Waterâ€“Gas Shift Catalysis. Angewandte Chemie, 2017, 129, 5671-5675.	2.0	11
29	Kinetics of Water Gas Shift Reaction on Au/CeZrO4: A Comparison Between Conventional Heating and Dielectric Barrier Discharge (DBD) Plasma Activation. Topics in Catalysis, 2020, 63, 363-369.	2.8	11
30	Detailed validation of an automotive catalysis model using spatially resolved measurements within the catalyst substrate. Canadian Journal of Chemical Engineering, 2014, 92, 1535-1541.	1.7	10
31	Comment on â€œThe Critical evaluation of in situ probe techniques for catalytic honeycomb monolithsâ€• by Hettel et al.. Catalysis Today, 2014, 236, 206-208.	4.4	10
32	Spatially-resolved investigation of the water inhibition of methane oxidation over palladium. Catalysis Science and Technology, 2020, 10, 1858-1874.	4.1	10
33	Time of flight mass spectrometry for quantitative data analysis in fast transient studies using a Temporal Analysis of Products (TAP) reactor. Analyst, The, 2011, 136, 155-163.	3.5	9
34	In Situ Spatially Resolved Techniques for the Investigation of Packed Bed Catalytic Reactors: Current Status and Future Outlook of Spaci-FB. Advances in Chemical Engineering, 2017, , 131-160.	0.9	9
35	Correction for a possible reversible adsorption over an â€œinertâ€•material. Catalysis Science and Technology, 2011, 1, 760.	4.1	8
36	TAP studies on 2% Ag/Î³â€“Al2O3 catalyst for selective reduction of oxygen in a H2-rich ethylene feed. Catalysis Science and Technology, 2012, 2, 2128.	4.1	8

#	Article	IF	Citations
37	Limitations of Global Kinetic Parameters for Automotive Application. , 0, , .		8
38	Expansion of pulse responses from temporal analysis of products (TAP) for more accurate data analysis. Catalysis Science and Technology, 2014, 4, 3665-3671.	4.1	5
39	Comparison between the thermal and plasma (NTP) assisted palladium catalyzed oxidation of CH4 using AC or nanopulse power supply. Catalysis Today, 2022, 384-386, 177-186.	4.4	5
40	Re-dispersion of gold supported on a â€˜mixedâ€™ oxide support. Journal of Lithic Studies, 2015, 1, 120-124.	0.5	3
41	Probing the Role of a Nonâ€Thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. Angewandte Chemie, 2017, 129, 9479-9483.	2.0	3
42	Development of a spatially resolved technique for the measurement of effective diffusions and its application to the modelling of washcoated catalytic monoliths. Applied Catalysis A: General, 2022, 638, 118608.	4.3	2
43	Characterisation and modelling of the reactions in a three-way PdRh catalyst in the exhaust gas from an ethanol-fuelled spark-ignition engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 3222-3234.	1.9	1
44	Optimization of Non-thermal Plasma-Assisted Catalytic Oxidation for Methane Emissions Abatement as an Exhaust Aftertreatment Technology. Plasma Chemistry and Plasma Processing, 2022, 42, 709-730.	2.4	1
45	Thermal ageing of a commercial LNT catalyst: Effects on the structure and functionalities. Catalysis Today, 2021, 384-386, 228-228.	4.4	0