

# Alexandre Goguet

## List of Publications by Year in descending order

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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	Comparison between the thermal and plasma (NTP) assisted palladium catalyzed oxidation of CH <sub>4</sub> using AC or nanopulse power supply. <i>Catalysis Today</i> , 2022, 384-386, 177-186.	4.4	5
2	Development of a spatially resolved technique for the measurement of effective diffusions and its application to the modelling of washcoated catalytic monoliths. <i>Applied Catalysis A: General</i> , 2022, 638, 118608.	4.3	2
3	Optimization of Non-thermal Plasma-Assisted Catalytic Oxidation for Methane Emissions Abatement as an Exhaust Aftertreatment Technology. <i>Plasma Chemistry and Plasma Processing</i> , 2022, 42, 709-730.	2.4	1
4	Spatial Profiling of a Pd/Al <sub>2</sub> O <sub>3</sub> Catalyst during Selective Ammonia Oxidation. <i>ACS Catalysis</i> , 2021, 11, 2141-2149.	11.2	25
5	Thermal ageing of a commercial LNT catalyst: Effects on the structure and functionalities. <i>Catalysis Today</i> , 2021, 384-386, 228-228.	4.4	0
6	Kinetics of Water Gas Shift Reaction on Au/CeZrO <sub>4</sub> : A Comparison Between Conventional Heating and Dielectric Barrier Discharge (DBD) Plasma Activation. <i>Topics in Catalysis</i> , 2020, 63, 363-369.	2.8	11
7	Spatially-resolved investigation of the water inhibition of methane oxidation over palladium. <i>Catalysis Science and Technology</i> , 2020, 10, 1858-1874.	4.1	10
8	A design of a fixed bed plasma DRIFTS cell for studying the NTP-assisted heterogeneously catalysed reactions. <i>Catalysis Science and Technology</i> , 2020, 10, 1458-1466.	4.1	17
9	Investigation of the oxygen storage capacity behaviour of three way catalysts using spatio-temporal analysis. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117918.	20.2	16
10	Structural selectivity of supported Pd nanoparticles for catalytic NH <sub>3</sub> oxidation resolved using combined operando spectroscopy. <i>Nature Catalysis</i> , 2019, 2, 157-163.	34.4	74
11	Combined spatially resolved operando spectroscopy: New insights into kinetic oscillations of CO oxidation on Pd/γ-Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , 2019, 373, 201-208.	6.2	19
12	Characterisation and modelling of the reactions in a three-way PdRh catalyst in the exhaust gas from an ethanol-fuelled spark-ignition engine. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 3222-3234.	1.9	1
13	Sustaining metal-organic frameworks for water-gas shift catalysis by non-thermal plasma. <i>Nature Catalysis</i> , 2019, 2, 142-148.	34.4	123
14	Non-thermal-plasma-activated de-NO <sub>x</sub> catalysis. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170054.	3.4	17
15	Unraveling the H <sub>2</sub> Promotional Effect on Palladium-Catalyzed CO Oxidation Using a Combination of Temporally and Spatially Resolved Investigations. <i>ACS Catalysis</i> , 2018, 8, 8255-8262.	11.2	19
16	Non-thermal Plasma Activation of Gold-Based Catalysts for Low-Temperature Water-Gas Shift Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 5671-5675.	2.0	11
17	Non-thermal Plasma Activation of Gold-Based Catalysts for Low-Temperature Water-Gas Shift Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5579-5583.	13.8	77
18	Probing the Role of a Non-thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9351-9355.	13.8	58

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19	Combined In Situ XAFS/DRIFTS Studies of the Evolution of Nanoparticle Structures from Molecular Precursors. <i>Chemistry of Materials</i> , 2017, 29, 7515-7523.	6.7	26
20	Probing the Role of a Non-thermal Plasma (NTP) in the Hybrid NTP Catalytic Oxidation of Methane. <i>Angewandte Chemie</i> , 2017, 129, 9479-9483.	2.0	3
21	In Situ Spatially Resolved Techniques for the Investigation of Packed Bed Catalytic Reactors: Current Status and Future Outlook of Spaci-FB. <i>Advances in Chemical Engineering</i> , 2017, , 131-160.	0.9	9
22	Evolution and Enabling Capabilities of Spatially Resolved Techniques for the Characterization of Heterogeneously Catalyzed Reactions. <i>ACS Catalysis</i> , 2016, 6, 1356-1381.	11.2	70
23	Re-dispersion of gold supported on a mixed oxide support. <i>Journal of Lithic Studies</i> , 2015, 1, 120-124.	0.5	3
24	Metal Redispersion Strategies for Recycling of Supported Metal Catalysts: A Perspective. <i>ACS Catalysis</i> , 2015, 5, 3430-3445.	11.2	154
25	Detailed validation of an automotive catalysis model using spatially resolved measurements within the catalyst substrate. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 1535-1541.	1.7	10
26	Critical role of water in the direct oxidation of CO and hydrocarbons in diesel exhaust after treatment catalysis. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 764-769.	20.2	42
27	Ambient Temperature Hydrocarbon Selective Catalytic Reduction of NO <sub>x</sub> Using Atmospheric Pressure Nonthermal Plasma Activation of a Ag/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>ACS Catalysis</i> , 2014, 4, 666-673.	11.2	62
28	Expansion of pulse responses from temporal analysis of products (TAP) for more accurate data analysis. <i>Catalysis Science and Technology</i> , 2014, 4, 3665-3671.	4.1	5
29	Application of halohydrocarbons for the re-dispersion of gold particles. <i>Catalysis Science and Technology</i> , 2014, 4, 729.	4.1	26
30	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. <i>Journal of Catalysis</i> , 2014, 319, 239-246.	6.2	24
31	Comment on "The Critical evaluation of in situ probe techniques for catalytic honeycomb monoliths" by Hettel et al.. <i>Catalysis Today</i> , 2014, 236, 206-208.	4.4	10
32	Selective Hydrogenation of Unsaturated Aldehydes and Ketones using Novel Manganese Oxide and Platinum Supported on Manganese Oxide Octahedral Molecular Sieves as Catalysts. <i>ChemCatChem</i> , 2013, 5, 506-512.	3.7	62
33	An in situ spatially resolved analytical technique to simultaneously probe gas phase reactions and temperature within the packed bed of a plug flow reactor. <i>Analyst, The</i> , 2013, 138, 2858.	3.5	22
34	TAP studies on 2% Ag/Al <sub>2</sub> O <sub>3</sub> catalyst for selective reduction of oxygen in a H <sub>2</sub> -rich ethylene feed. <i>Catalysis Science and Technology</i> , 2012, 2, 2128.	4.1	8
35	An in situ spatially resolved method to probe gas phase reactions through a fixed bed catalyst. <i>Catalysis Science and Technology</i> , 2012, 2, 1811.	4.1	24
36	Redispersion of Gold Supported on Oxides. <i>ACS Catalysis</i> , 2012, 2, 552-560.	11.2	73

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37	Correction for a possible reversible adsorption over an "inert" material. Catalysis Science and Technology, 2011, 1, 760.	4.1	8
38	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
39	Activation of Alkanes by Gold-Modified Lanthanum Oxide. ChemCatChem, 2011, 3, 394-398.	3.7	17
40	SpaciMS: spatial and temporal operando resolution of reactions within catalytic monoliths. Analyst, The, 2010, 135, 2260.	3.5	60
41	Increased Dispersion of Supported Gold during Methanol Carbonylation Conditions. Journal of the American Chemical Society, 2009, 131, 6973-6975.	13.7	75
42	Gold imidazolium-based ionic liquids, efficient catalysts for cycloisomerization of $\hat{1}^3$ -acetylenic carboxylic acids. New Journal of Chemistry, 2009, 33, 102-106.	2.8	29
43	Remarkable stability of ionic gold supported on sulfated lanthanum oxide. Chemical Communications, 2009, , 4889.	4.1	21
44	Spectrokinetic Investigation of Reverse Water-Gas-Shift Reaction Intermediates over a Pt/CeO <sub>2</sub> Catalyst. Journal of Physical Chemistry B, 2004, 108, 20240-20246.	2.6	306
45	Limitations of Global Kinetic Parameters for Automotive Application. , 0, , .		8