

Frederic C Meunier

List of Publications by Year in descending order

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138
papers

7,590
citations

43973

48
h-index

56606

83
g-index

144
all docs

144
docs citations

144
times ranked

6132
citing authors

#	ARTICLE	IF	CITATIONS
1	Comment on "Stabilizing platinum atoms on CeO ₂ oxygen vacancies by metal-support interaction induced interface distortion: mechanism and application" by Jiang et al., Appl. Catal., B 2020, 278, 119304. Applied Catalysis B: Environmental, 2022, 302, 120841.	10.8	3
2	Stability of Pt-Adsorbed CO on Catalysts for Room Temperature-Oxidation of CO. Catalysts, 2022, 12, 532.	1.6	9
3	Evidencing Pt-Au alloyed domains on supported bimetallic nanoparticles using CO desorption kinetics. Applied Catalysis A: General, 2022, 639, 118643.	2.2	2
4	On the link between CO surface coverage and selectivity to CH ₄ during CO ₂ hydrogenation over supported cobalt catalysts. Journal of Catalysis, 2022, 411, 93-96.	3.1	14
5	Removal of Pemetrexed from aqueous phase using activated carbons in static mode. Chemical Engineering Journal, 2021, 405, 127016.	6.6	11
6	Katalyse der Oxidation von CO an Pt/CeO ₂ bei Raumtemperatur: Synergie zwischen metallischen und oxidierten Pt-Zentren. Angewandte Chemie, 2021, 133, 3843-3849.	1.6	4
7	Synergy between Metallic and Oxidized Pt Sites Unravelling during Room Temperature CO...Oxidation on Pt/Ceria. Angewandte Chemie - International Edition, 2021, 60, 3799-3805.	7.2	74
8	Au-Modified Pd catalyst exhibits improved activity and stability for NO direct decomposition. Catalysis Science and Technology, 2021, 11, 2908-2914.	2.1	3
9	Selectivity loss in Fischer-Tropsch synthesis: The effect of cobalt carbide formation. Journal of Catalysis, 2021, 397, 1-12.	3.1	16
10	Origin of the synergistic effect between TiO ₂ crystalline phases in the Ni/TiO ₂ -catalyzed CO ₂ methanation reaction. Journal of Catalysis, 2021, 398, 14-28.	3.1	43
11	Contributions and limitations of IR spectroscopy of CO adsorption to the characterization of bimetallic and nanoalloy catalysts. Catalysis Today, 2021, 373, 59-68.	2.2	14
12	Relevance of IR Spectroscopy of Adsorbed CO for the Characterization of Heterogeneous Catalysts Containing Isolated Atoms. Journal of Physical Chemistry C, 2021, 125, 21810-21823.	1.5	38
13	Selectivity loss in Fischer-Tropsch synthesis: The effect of carbon deposition. Journal of Catalysis, 2021, 401, 7-16.	3.1	5
14	Comment on "Direct Decomposition of NO _x over TiO ₂ Supported Transition Metal Oxides at Low Temperatures" Industrial & Engineering Chemistry Research, 2020, 59, 4835-4837.	1.8	1
15	Combined DRIFTS and DFT Study of CO Adsorption and Segregation Modes in Pt-Sn Nanoalloys. Journal of Physical Chemistry C, 2020, 124, 9979-9989.	1.5	23
16	A flexible cell for <i>in situ</i> combined XAS-DRIFTS-MS experiments. Journal of Synchrotron Radiation, 2019, 26, 801-810.	1.0	6
17	Unravelling Platinum-Zirconia Interfacial Sites Using CO Adsorption. Inorganic Chemistry, 2019, 58, 8021-8029.	1.9	25
18	On the contamination with nickel and nickel tetracarbonyl during FT-IR investigation of catalysts under CO-containing gases. Journal of Catalysis, 2019, 372, 388.	3.1	10

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19	Effect of Sn on the production of methanol during syngas conversion over Co/alumina. <i>Catalysis Today</i> , 2019, 336, 84-89.	2.2	4
20	Hydrogenation Size-Selective Pt/Hollow Beta Catalysts. <i>Chemistry - A European Journal</i> , 2019, 25, 2972-2977.	1.7	8
21	Comment on the correction of gas-phase signals during IR operando analyses. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1.	6.9	0
22	Highly dispersed Au, Ag and Au-Ag alloy nanoparticles encapsulated in single crystal multi-hollow silicalite-1. <i>Applied Catalysis A: General</i> , 2019, 569, 86-92.	2.2	6
23	CO dissociation on Pt-Sn nanoparticles triggers Sn oxidation and alloy segregation. <i>Journal of Catalysis</i> , 2018, 359, 76-81.	3.1	21
24	Hollow Beta Zeolite Single Crystals for the Design of Selective Catalysts. <i>Crystal Growth and Design</i> , 2018, 18, 592-596.	1.4	27
25	Acetylene semi-hydrogenation over Pd-Zn/CeO ₂ : Relevance of CO adsorption and methanation as descriptors of selectivity. <i>Catalysis Communications</i> , 2018, 105, 52-55.	1.6	20
26	Understanding deactivation processes during bio-syngas methanation: DRIFTS and SSITKA experiments and kinetic modeling over Ni/Al ₂ O ₃ catalysts. <i>Catalysis Today</i> , 2018, 299, 172-182.	2.2	13
27	Effects of H ₂ S and phenanthrene on the activity of Ni and Rh-based catalysts for the reforming of a simulated biomass-derived producer gas. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 206-214.	10.8	27
28	CO Hydrogenation on Cobalt-Based Catalysts: Tin Poisoning Unravels CO in Hollow Sites as a Main Surface Intermediate. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 547-550.	7.2	39
29	Development of a robust and efficient biogas processor for hydrogen production. Part 2: Experimental campaign. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 161-177.	3.8	11
30	CO Hydrogenation on Cobalt-Based Catalysts: Tin Poisoning Unravels CO in Hollow Sites as a Main Surface Intermediate. <i>Angewandte Chemie</i> , 2018, 130, 556-559.	1.6	9
31	XAS/DRIFTS/MS spectroscopy for time-resolved <i>operando</i> investigations at high temperature. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1745-1752.	1.0	22
32	Demonstration of Improved Effectiveness Factor of Catalysts Based on Hollow Single Crystal Zeolites. <i>ChemCatChem</i> , 2018, 10, 4525-4529.	1.8	14
33	Visualizing and Quantifying the Cationic Mobility at {100} Surfaces of Ceria: Application to CO ₂ Adsorption/Desorption Phenomena in the Environmental Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2018, 24, 1940-1941.	0.2	0
34	Highly Dispersed Nickel Particles Encapsulated in Multi-Hollow Silicalite-1 Single Crystal Nanoboxes: Effects of Siliceous Deposits and Phosphorous Species on the Catalytic Performances. <i>ChemCatChem</i> , 2017, 9, 2297-2307.	1.8	24
35	Selective removal of external Ni nanoparticles on Ni@silicalite-1 single crystal nanoboxes: Application to size-selective arene hydrogenation. <i>Applied Catalysis A: General</i> , 2017, 535, 69-76.	2.2	16
36	Effect of polyaromatic tars on the activity for methane steam reforming of nickel particles embedded in silicalite-1. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 515-524.	10.8	30

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37	Development of a robust and efficient biogas processor for hydrogen production. Part 1: Modelling and simulation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22841-22855.	3.8	18
38	Experiments and Modeling of Methane Autothermal Reforming over Structured Ni-Rh-Based Si-SiC Foam Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 13165-13174.	1.8	27
39	Deactivation mechanism of Ni supported on Mg-Al spinel during autothermal reforming of model biogas. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 289-299.	10.8	44
40	Hollow Zeolite Single-Crystals Encapsulated Alloy Nanoparticles with Controlled Size and Composition. <i>ChemNanoMat</i> , 2016, 2, 534-539.	1.5	40
41	A Pt/Al ₂ O ₃ -supported metal-organic framework film as the size-selective core-shell hydrogenation catalyst. <i>Chemical Communications</i> , 2016, 52, 7161-7163.	2.2	17
42	Influence of crystal size on the uptake rate of isooctane in plain and hollow silicalite-1 crystals. <i>Microporous and Mesoporous Materials</i> , 2016, 228, 147-152.	2.2	12
43	Pitfalls and benefits of in situ and operando diffuse reflectance FT-IR spectroscopy (DRIFTS) applied to catalytic reactions. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 134-141.	1.9	53
44	In situ FT-IR spectroscopy investigations of dimethyl carbonate synthesis: on the contribution of gas-phase species. <i>RSC Advances</i> , 2016, 6, 17288-17289.	1.7	5
45	Reconstruction of ceria-supported Pt-Co particles under H ₂ and CO at 220 °C. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 56-61.	10.8	11
46	Individual Heat of Adsorption of Adsorbed CO Species on Palladium and Pd-Sn Nanoparticles Supported on Al ₂ O ₃ by Using Temperature-Programmed Adsorption Equilibrium Methods. <i>ACS Catalysis</i> , 2016, 6, 2545-2558.	5.5	39
47	Determination of formate decomposition rates and relation to product formation during CO hydrogenation over supported cobalt. <i>Catalysis Today</i> , 2016, 259, 192-196.	2.2	33
48	Effects of temperature and rich-phase composition on the performance of a commercial NO _x -Storage-Reduction material. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 534-541.	10.8	17
49	Spectrum baseline artefacts and correction of gas-phase species signal during diffuse reflectance FT-IR analyses of catalysts at variable temperatures. <i>Applied Catalysis A: General</i> , 2015, 495, 17-22.	2.2	45
50	Unraveling the mechanism of chemical reactions through thermodynamic analyses: A short review. <i>Applied Catalysis A: General</i> , 2015, 504, 220-227.	2.2	12
51	CO PROX over Pt-Sn/Al ₂ O ₃ : A combined kinetic and in situ DRIFTS study. <i>Catalysis Today</i> , 2015, 258, 241-246.	2.2	41
52	Origins of the poisoning effect of chlorine on the CO hydrogenation activity of alumina-supported cobalt monitored by operando FT-IR spectroscopy. <i>Journal of Catalysis</i> , 2015, 329, 229-236.	3.1	45
53	High-throughput assessment of catalyst stability during autothermal reforming of model biogas. <i>Catalysis Science and Technology</i> , 2015, 5, 4390-4397.	2.1	12
54	Unraveling the mechanism of catalytic reactions through combined kinetic and thermodynamic analyses: Application to the condensation of ethanol. <i>Comptes Rendus Chimie</i> , 2015, 18, 345-350.	0.2	22

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55	Platinum nanoparticles entrapped in zeolite nanoshells as active and sintering-resistant arene hydrogenation catalysts. <i>Journal of Catalysis</i> , 2015, 332, 25-30.	3.1	59
56	Heat of adsorption of CO on EUROPT-1 using the AEIR method: Effect of analysis parameters, water and sample mode. <i>Applied Catalysis A: General</i> , 2015, 505, 309-318.	2.2	12
57	Transition-Metal Nanoparticles in Hollow Zeolite Single Crystals as Bifunctional and Size-Selective Hydrogenation Catalysts. <i>Chemistry of Materials</i> , 2015, 27, 276-282.	3.2	118
58	Coke chemistry under vacuum gasoil/bio-oil FCC co-processing conditions. <i>Catalysis Today</i> , 2015, 257, 200-212.	2.2	36
59	Nature and reactivity of the surface species observed over a supported cobalt catalyst under CO/H ₂ mixtures. <i>Catalysis Today</i> , 2015, 242, 178-183.	2.2	43
60	Size-selective hydrogenation at the subnanometer scale over platinum nanoparticles encapsulated in silicalite-1 single crystal hollow shells. <i>Chemical Communications</i> , 2014, 50, 1824.	2.2	89
61	Ethanol condensation to butanol at high temperatures over a basic heterogeneous catalyst: How relevant is acetaldehyde self-aldolization?. <i>Journal of Catalysis</i> , 2014, 311, 28-32.	3.1	111
62	Dramatic promotion of copper-alumina catalysts by sodium for acetone trimerisation. <i>Catalysis Science and Technology</i> , 2014, 4, 2480-2483.	2.1	1
63	Rational design of a CO ₂ -resistant toluene hydrogenation catalyst based on FT-IR spectroscopy studies. <i>Journal of Catalysis</i> , 2014, 318, 61-66.	3.1	11
64	Direct evidence by in situ IR CO monitoring of the formation and the surface segregation of a Pt-Sn alloy. <i>Chemical Communications</i> , 2014, 50, 8590.	2.2	51
65	Comments on Kalamaras et al., <i>Appl. Catal. B: Environ.</i> 136-137 (2013) 225-238, discussing the difficulty in assessing reactant and product readsorption effects in SSITKA-type work. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 437-438.	10.8	3
66	Understanding the storage function of a commercial NO _x -storage-reduction material using operando IR under realistic conditions. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 335-343.	10.8	19
67	Effective bulk and surface temperatures of the catalyst bed of FT-IR cells used for in situ and operando studies. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7321.	1.3	102
68	An operando DRIFTS investigation into the resistance against CO ₂ poisoning of a Rh/alumina catalyst during toluene hydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2159-2163.	1.3	24
69	TAP studies on 2% Ag/Al ₂ O ₃ catalyst for selective reduction of oxygen in a H ₂ -rich ethylene feed. <i>Catalysis Science and Technology</i> , 2012, 2, 2128.	2.1	8
70	Comments on "Surface interfaces in low temperature water-gas shift: The metal oxide synergy, the assistance of co-adsorbed water, and alkali doping" by Jacobs and Davis, <i>Int J Hydrogen Energy</i> , 35 (2010) 3522-36. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5311-5313.	3.8	0
71	Influence of crystal size and probe molecule on diffusion in hierarchical ZSM-5 zeolites prepared by desilication. <i>Microporous and Mesoporous Materials</i> , 2012, 148, 115-121.	2.2	95
72	Characterization of Surface Acidity of Carbonated Materials by IR-Sensitive Molecular Probes: Advantages of Using <i>tert</i> -Butyl Cyanide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24931-24936.	1.5	11

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73	Correlation between deactivation and Pt-carbonyl formation during toluene hydrogenation using a H ₂ /CO ₂ mixture. <i>Journal of Catalysis</i> , 2011, 278, 153-161.	3.1	15
74	The use of short time-on-stream in situ spectroscopic transient kinetic isotope techniques to investigate the mechanism of hydrocarbon selective catalytic reduction (HC-SCR) of NO at low temperatures. <i>Journal of Catalysis</i> , 2011, 281, 98-105.	3.1	62
75	A critical analysis of the experimental evidence for and against a formate mechanism for high activity water-gas shift catalysts. <i>Applied Catalysis A: General</i> , 2011, 409-410, 3-12.	2.2	81
76	Comment on the ⁶⁷ Zn in situ IR studies on the mechanism of methanol synthesis from CO/H ₂ and CO ₂ /H ₂ over Cu-ZnO-Al ₂ O ₃ catalyst by Wang et al. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1495-1496.	1.2	5
77	Mixing Copper Nanoparticles and ZnO Nanocrystals: A Route towards Understanding the Hydrogenation of CO ₂ to Methanol?. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4053-4054.	7.2	60
78	Nano-structural investigation of Ag/Al ₂ O ₃ catalyst for selective removal of O ₂ with excess H ₂ in the presence of C ₂ H ₄ . <i>Applied Catalysis A: General</i> , 2011, 391, 187-193.	2.2	21
79	The effect of reaction conditions on the stability of Au/CeZrO ₄ catalysts in the low-temperature water-gas shift reaction. <i>Journal of Catalysis</i> , 2010, 273, 257-265.	3.1	53
80	Investigating the mechanism of the H ₂ -assisted selective catalytic reduction (SCR) of NO _x with octane using fast cycling transient in situ DRIFTS-MS analysis. <i>Journal of Catalysis</i> , 2010, 276, 49-55.	3.1	50
81	CsF and alumina: A mixed homogeneous-heterogeneous catalytic system for the transesterification of sunflower oil with methanol. <i>Applied Catalysis B: Environmental</i> , 2010, 97, 269-275.	10.8	22
82	The power of quantitative kinetic studies of adsorbate reactivity by operando FTIR spectroscopy carried out at chemical potential steady-state. <i>Catalysis Today</i> , 2010, 155, 164-171.	2.2	64
83	DRIFTS/MS Studies during Chemical Transients and SSITKA of the CO/H ₂ Reaction over Co-MgO Catalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2248-2255.	1.5	73
84	The design and testing of kinetically-appropriate operando spectroscopic cells for investigating heterogeneous catalytic reactions. <i>Chemical Society Reviews</i> , 2010, 39, 4602.	18.7	130
85	DRIFTS/MS/Isotopic Labeling Study on the NO-Moderated Decomposition of a Silica-Supported Nickel Nitrate Catalyst Precursor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7839-7845.	1.5	17
86	Promotional effect of H ₂ on CO oxidation over Au/TiO ₂ studied by operando infrared spectroscopy. <i>Applied Catalysis B: Environmental</i> , 2009, 86, 190-195.	10.8	65
87	A thermogravimetric and FT-IR study of the reduction by H ₂ of sulfated Pt/CexZr _{1-x} O ₂ solids. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 368-379.	10.8	28
88	Methane steam reforming for hydrogen production using low water-ratios without carbon formation over ceria coated Ni catalysts. <i>Applied Catalysis A: General</i> , 2008, 345, 119-127.	2.2	104
89	Effect of the carburization of MoO ₃ -based catalysts on the activity for butane hydroisomerization. <i>Applied Catalysis A: General</i> , 2008, 344, 30-35.	2.2	26
90	H ₂ -induced promotion of CO oxidation over unsupported gold. <i>Catalysis Today</i> , 2008, 138, 43-49.	2.2	44

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91	Negative apparent kinetic order in steady-state kinetics of the water-gas shift reaction over a Pt/CeO ₂ catalyst. <i>Catalysis Today</i> , 2008, 138, 216-221.	2.2	14
92	A modified commercial DRIFTS cell for kinetically relevant operando studies of heterogeneous catalytic reactions. <i>Applied Catalysis A: General</i> , 2008, 340, 196-202.	2.2	74
93	On the usefulness of carbon isotopic exchange for the operando analysis of metal-carbonyl bands by IR over ceria-containing catalysts. <i>Journal of Catalysis</i> , 2008, 254, 238-243.	3.1	45
94	Selective catalytic reduction of O ₂ with excess H ₂ in the presence of C ₂ H ₄ or C ₃ H ₆ . <i>Chemical Communications</i> , 2008, , 6212.	2.2	5
95	Formation of Ammonia during the NO ₂ Reaction over Pt/ZrO ₂ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 18157-18163.	1.5	11
96	Bridging the Gap between Surface Science and Industrial Catalysis. <i>ACS Nano</i> , 2008, 2, 2441-2444.	7.3	27
97	Modulating the Selectivity for CO and Butane Oxidation over Heterogeneous Catalysis through Amorphous Catalyst Coatings. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10968-10975.	1.5	7
98	Quantitative Analysis of Adsorbate Concentrations by Diffuse Reflectance FT-IR. <i>Analytical Chemistry</i> , 2007, 79, 3912-3918.	3.2	193
99	Deactivation Mechanism of a Au/CeZrO ₄ Catalyst During a Low-Temperature Water Gas Shift Reaction. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16927-16933.	1.5	92
100	Esterification of free fatty acids in sunflower oil over solid acid catalysts using batch and fixed bed-reactors. <i>Applied Catalysis A: General</i> , 2007, 333, 122-130.	2.2	139
101	Quantitative analysis of the reactivity of formate species seen by DRIFTS over a Au/Ce(La)O ₂ water-gas shift catalyst: First unambiguous evidence of the minority role of formates as reaction intermediates. <i>Journal of Catalysis</i> , 2007, 247, 277-287.	3.1	174
102	Quantitative DRIFTS investigation of possible reaction mechanisms for the water-gas shift reaction on high-activity Pt- and Au-based catalysts. <i>Journal of Catalysis</i> , 2007, 252, 18-22.	3.1	108
103	Identifying critical factors in the regeneration of NO _x -trap materials under realistic conditions using fast transient techniques. <i>Applied Catalysis B: Environmental</i> , 2007, 72, 178-186.	10.8	43
104	On the complexity of the water-gas shift reaction mechanism over a Pt/CeO ₂ catalyst: Effect of the temperature on the reactivity of formate surface species studied by operando DRIFT during isotopic transient at chemical steady-state. <i>Catalysis Today</i> , 2007, 126, 143-147.	2.2	80
105	Comparison of New Microemulsion Prepared Pt-in-Ceria Catalyst with Conventional Pt-on-Ceria Catalyst for Water-Gas Shift Reaction. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8540-8543.	1.2	54
106	DRIFTS-MS-SSITKA Study of the Reverse Water-Gas Shift Reaction. <i>Oil and Gas Science and Technology</i> , 2006, 61, 497-502.	1.4	10
107	On the need to use steady-state or operando techniques to investigate reaction mechanisms: An in situ DRIFTS and SSITKA-based study example. <i>Catalysis Today</i> , 2006, 113, 94-101.	2.2	63
108	Hydroisomerisation of n-alkanes over partially reduced MoO ₃ : Promotion by CoAlPO-11 and relations to reaction mechanism and rate-determining step. <i>Catalysis Today</i> , 2006, 112, 64-67.	2.2	13

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109	Pulse-response TAP studies of the reverse water-gas shift reaction over a Pt/CeO ₂ catalyst. <i>Journal of Catalysis</i> , 2006, 237, 102-110.	3.1	61
110	An investigation of possible mechanisms for the water-gas shift reaction over a ZrO ₂ -supported Pt catalyst. <i>Journal of Catalysis</i> , 2006, 244, 183-191.	3.1	98
111	On the reactivity of carbonate species on a Pt/CeO ₂ catalyst under various reaction atmospheres: Application of the isotopic exchange technique. <i>Applied Catalysis A: General</i> , 2005, 289, 104-112.	2.2	106
112	Steam reforming of model compounds and fast pyrolysis bio-oil on supported noble metal catalysts. <i>Applied Catalysis B: Environmental</i> , 2005, 61, 130-139.	10.8	401
113	Study of the origin of the deactivation of a Pt/CeO catalyst during reverse water gas shift (RWGS) reaction. <i>Journal of Catalysis</i> , 2004, 226, 382-392.	3.1	162
114	Guest sorption and desorption in the metal-organic framework [Co(INA) ₂](INA=isonicotinate): Evidence of intermediate phases during desorption. <i>Dalton Transactions</i> , 2004, , 1807-1811.	1.6	60
115	Spectrokinetic Investigation of Reverse Water-Gas-Shift Reaction Intermediates over a Pt/CeO ₂ Catalyst. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20240-20246.	1.2	306
116	On the importance of steady-state isotopic techniques for the investigation of the mechanism of the reverse water-gas-shift reaction. Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b4/b403438d/ . <i>Chemical Communications</i> , 2004, , 1636.	2.2	79
117	New insights into the reaction mechanism and the rate-determining step of n-butane hydroisomerisation over reduced MoO ₃ catalysts. Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b3/b304978g/ . <i>Chemical Communications</i> , 2003, , 1954.	2.2	12
118	In Situ IR Study of the Nature and Mobility of Sorbed Species on H-FER during But-1-ene Isomerization. <i>Journal of Catalysis</i> , 2002, 211, 366-378.	3.1	50
119	On the nature of the silver phases of Ag/Al ₂ O ₃ catalysts for reactions involving nitric oxide. <i>Applied Catalysis B: Environmental</i> , 2002, 36, 287-297.	10.8	162
120	A review of the selective reduction of NO _x with hydrocarbons under lean-burn conditions with non-zeolitic oxide and platinum group metal catalysts. <i>Applied Catalysis B: Environmental</i> , 2002, 39, 283-303.	10.8	806
121	In Situ IR Study of the Nature and Mobility of Sorbed Species on H-FER during But-1-ene Isomerization. <i>Journal of Catalysis</i> , 2002, 211, 366-378.	3.1	29
122	Differences in the Reactivity of Organo-Nitro and Nitrito Compounds over Al ₂ O ₃ -Based Catalysts Active for the Selective Reduction of NO _x . <i>Journal of Catalysis</i> , 2001, 202, 340-353.	3.1	62
123	Effect of the silver loading and some other experimental parameters on the selective reduction of NO with C ₃ H ₆ over Al ₂ O ₃ and ZrO ₂ -based catalysts. <i>Applied Catalysis B: Environmental</i> , 2001, 30, 163-172.	10.8	73
124	Transition state and diffusion controlled selectivity in skeletal isomerization of olefins. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 323-328.	1.5	4
125	Mechanistic differences in the selective reduction of NO by propene over cobalt- and silver-promoted alumina catalysts: kinetic and in situ DRIFTS study. <i>Catalysis Today</i> , 2000, 59, 287-304.	2.2	167
126	Effect of ex situ treatments with SO ₂ on the activity of a low loading silver-alumina catalyst for the selective reduction of NO and NO ₂ by propene. <i>Applied Catalysis B: Environmental</i> , 2000, 24, 23-32.	10.8	99

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127	Part I. n-Butane dehydrogenation on unsupported carbon modified MoO ₃ (MoO _x C _y): effect of steam on the catalyst stability. Applied Catalysis A: General, 1999, 181, 157-170.	2.2	41
128	Mechanistic Aspects of the Selective Reduction of NO by Propene over Alumina and Silver-Alumina Catalysts. Journal of Catalysis, 1999, 187, 493-505.	3.1	341
129	New insights into the origin of NO ₂ in the mechanism of the selective catalytic reduction of NO by propene over alumina. Chemical Communications, 1999, , 259-260.	2.2	19
130	Mechanistic aspects of the steam reforming of methanol over a CuO/ZnO/ZrO ₂ /Al ₂ O ₃ catalyst. Chemical Communications, 1999, , 2247-2248.	2.2	66
131	Possible intermediates in the selective catalytic reduction of NO _x : differences in the reactivity of nitro-compounds and tert-butyl nitrite over I ³ -Al ₂ O ₃ . Chemical Communications, 1999, , 815-816.	2.2	15
132	An In-situ DRIFTS Study of the Mechanism of the CO ₂ Reforming of CH ₄ over a Pt/ZrO ₂ Catalyst. Studies in Surface Science and Catalysis, 1998, 119, 819-824.	1.5	46
133	Selective n-Butane Isomerization over High Specific Surface Area MoO ₃ -Carbon-Modified Catalyst. Industrial & Engineering Chemistry Research, 1997, 36, 4166-4175.	1.8	25
134	Synthesis and Characterization of High Specific Surface Area Vanadium Carbide; Application to Catalytic Oxidation. Journal of Catalysis, 1997, 169, 33-44.	3.1	59
135	Oxidative dehydrogenation of propane over molybdenum-containing catalysts. Catalysis Today, 1997, 37, 33-42.	2.2	62
136	Physical characterization of molybdenum oxycarbide catalyst; TEM, XRD and XPS. Catalysis Today, 1995, 23, 251-267.	2.2	202
137	Coupling kinetic and spectroscopic methods for the investigation of environmentally important reactions. Catalysis, 0, , 94-118.	0.6	4
138	Recent progresses on the use of supported bimetallic catalysts for the preferential oxidation of CO (PROX). Catalysis, 0, , 237-267.	0.6	1