Davide Ferri

List of Publications by Year
in descending order

182	7,938	36303	66911
papers	citations	51 h-index	78 g-index

191	191	191	7405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flame-made WO3/TiO2 nanoparticles: Relation between surface acidity, structure and photocatalytic activity. Applied Catalysis B: Environmental, 2008, 79, 53-62.	20.2	268
2	The Significance of Lewis Acid Sites for the Selective Catalytic Reduction of Nitric Oxide on Vanadiumâ€Based Catalysts. Angewandte Chemie - International Edition, 2016, 55, 11989-11994.	13.8	228
3	An in Situ Attenuated Total Reflection Infrared Study of a Chiral Catalytic Solidâ^'Liquid Interface:Â Cinchonidine Adsorption on Pt. Journal of the American Chemical Society, 2001, 123, 12074-12084.	13.7	217
4	Stable complete methane oxidation over palladium based zeolite catalysts. Nature Communications, 2018, 9, 2545.	12.8	187
5	Time-resolved copper speciation during selective catalytic reduction of NO on Cu-SSZ-13. Nature Catalysis, 2018, 1, 221-227.	34.4	186
6	Methane combustion on some perovskite-like mixed oxides. Applied Catalysis B: Environmental, 1998, 16, 119-126.	20.2	183
7	Flame-Made WO₃/CeO_x-TiO₂ Catalysts for Selective Catalytic Reduction of NO_x by NH₃. ACS Catalysis, 2015, 5, 5657-5672.	11.2	171
8	Unraveling the Surface Reactions during Liquid-Phase Oxidation of Benzyl Alcohol on Pd/Al2O3:Â an in Situ ATRâ^'IR Study. Journal of Physical Chemistry B, 2005, 109, 958-967.	2.6	158
9	Effect of the CH3OH/H2O ratio on the mechanism of the gas-phase photocatalytic reforming of methanol on noble metal-modified TiO2. Journal of Catalysis, 2011, 280, 168-177.	6.2	144
10	Pt and Pt/Al2O3 Thin Films for Investigation of Catalytic Solidâ^'Liquid Interfaces by ATR-IR Spectroscopy:â€‰ CO Adsorption, H2-Induced Reconstruction and Surface-Enhanced Absorption. Journal of Physical Chemistry B, 2001, 105, 3187-3195.	2.6	143
11	Comparative study of hydrotalcite-derived supported Pd2Ga and PdZn intermetallic nanoparticles as methanol synthesis and methanol steam reforming catalysts. Journal of Catalysis, 2012, 293, 27-38.	6.2	135
12	Sorption enhanced CO2 methanation. Physical Chemistry Chemical Physics, 2013, 15, 9620.	2.8	130
13	Structured Perovskite-Based Catalysts and Their Application as Three-Way Catalytic Convertersâ€”A Review. Catalysts, 2014, 4, 226-255.	3.5	125
14	Discrimination of Active Palladium Sites in Catalytic Liquid-Phase Oxidation of Benzyl Alcohol. Journal of Physical Chemistry B, 2006, 110, 22982-22986.	2.6	115
15	Promoted Ru?hydroxyapatite: designed structure for the fast and highly selective oxidation of alcohols with oxygen. Journal of Catalysis, 2005, 230, 406-419.	6.2	108
16	Competition at Chiral Metal Surfaces:Â Fundamental Aspects of the Inversion of Enantioselectivity in Hydrogenations on Platinum. Journal of the American Chemical Society, 2005, 127, 8467-8477.	13.7	93
17	In Situ ATRâ€“IR Study of the Adsorption of Cinchonidine on Pd/Al2O3: Differences and Similarities with Adsorption on Pt/Al2O3. Journal of Catalysis, 2002, 210, 160-170.	6.2	90
18	First steps in combining modulation excitation spectroscopy with synchronous dispersive EXAFS/DRIFTS/mass spectrometry for in situ time resolved study of heterogeneous catalysts. Physical Chemistry Chemical Physics, 2010, 12, 5634.	2.8	89

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19	Temperature-induced evolution of reaction sites and mechanisms during preferential oxidation of CO. Journal of Catalysis, 2011, 277, 64-71.	6.2	86
20	Combined liquid-phase ATR-IR and XAS study of the Bi-promotion in the aerobic oxidation of benzyl alcohol over Pd/Al2O3. Journal of Catalysis, 2007, 252, 77-87.	6.2	85
21	Who Is Doing the Job? Unraveling the Role of Ga₂O₃ in Methanol Steam Reforming on Pd₂Ga/Ga₂O₃. ACS Catalysis, 2012, 2, 2305-2315.	11.2	82
22	VOx Surface Coverage Optimization of V2O5/WO3-TiO2 SCR Catalysts by Variation of the V Loading and by Aging. Catalysts, 2015, 5, 1704-1720.	3.5	82
23	Design of Stable Palladium-Based Zeolite Catalysts for Complete Methane Oxidation by Postsynthesis Zeolite Modification. ACS Catalysis, 2019, 9, 2303-2312.	11.2	82
24	Modulation Excitation X-Ray Absorption Spectroscopy to Probe Surface Species on Heterogeneous Catalysts. Topics in Catalysis, 2011, 54, 1070-1078.	2.8	80
25	Room-temperature carbon monoxide oxidation by oxygen over Pt/Al2O3 mediated by reactive platinum carbonates. Nature Communications, 2015, 6, 8675.	12.8	79
26	Revisiting the Problem of Active Sites for Methane Combustion on Pd/Al₂O₃ by Operando XANES in a Lab-Scale Fixed-Bed Reactor. Journal of Physical Chemistry C, 2010, 114, 9439-9443.	3.1	78
27	The Effect of the State of Pd on Methane Combustion in Pd-Doped LaFeO₃. Journal of Physical Chemistry C, 2010, 114, 4584-4594.	3.1	78
28	Probing boundary sites on a Pt/Al2O3 model catalyst by CO2 hydrogenation and in situ ATR-IR spectroscopy of catalytic solidâ€“liquid interfaces. Physical Chemistry Chemical Physics, 2002, 4, 2667-2672.	2.8	77
29	Thermal and chemical aging of model three-way catalyst Pd/Al2O3 and its impact on the conversion of CNG vehicle exhaust. Catalysis Today, 2012, 184, 237-244.	4.4	75
30	Chiral modification of platinum catalysts by cinchonidine adsorption studied by in situ ATR-IR spectroscopy. Chemical Communications, 2001, , 1172-1173.	4.1	73
31	Smart material concept: reversible microstructural self-regeneration for catalytic applications. Journal of Materials Chemistry A, 2016, 4, 11939-11948.	10.3	72
32	Relationship between structures and activities of supported metal vanadates for the selective catalytic reduction of NO by NH3. Applied Catalysis B: Environmental, 2017, 218, 731-742.	20.2	72
33	Adding diffuse reflectance infrared Fourier transform spectroscopy capability to extended x-ray-absorption fine structure in a new cell to study solid catalysts in combination with a modulation approach. Review of Scientific Instruments, 2014, 85, 074102.	1.3	71
34	Flame-synthesized LaCoO3-supported Pd1. Structure, thermal stability and reducibility. Journal of Catalysis, 2007, 252, 127-136.	6.2	70
35	Uncovering the reaction mechanism behind CoO as active phase for CO2 hydrogenation. Nature Communications, 2022, 13, 324.	12.8	69
36	Methane oxidation over a honeycomb Pd-only three-way catalyst under static and periodic operation. Applied Catalysis B: Environmental, 2018, 220, 67-77.	20.2	67

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37	On the role of CO formation during the aerobic oxidation of alcohols on Pd/Al2O3: an in situ attenuated total reflection infrared study. Journal of Catalysis, 2005, 234, 64-75.	6.2	66
38	Supercritical Carbon Dioxide:â€‰ An Inert Solvent for Catalytic Hydrogenation?. Journal of Physical Chemistry B, 2005, 109, 16794-16800.	2.6	65
39	Generation of NH₃ Selective Catalytic Reduction Active Catalysts from Decomposition of Supported FeVO₄. ACS Catalysis, 2015, 5, 4180-4188.	11.2	64
40	Operando Synchrotron Xâ€ray Powder Diffraction and Modulatedâ€Excitation Infrared Spectroscopy Elucidate the CO₂ Promotion on a Commercial Methanol Synthesis Catalyst. Angewandte Chemie - International Edition, 2016, 55, 11031-11036.	13.8	64
41	Advances in Infrared Spectroscopy of Catalytic Solidâ€“Liquid Interfaces: The Case of Selective Alcohol Oxidation. Topics in Catalysis, 2009, 52, 1323-1333.	2.8	63
42	The influence of chemical and thermal aging on the catalytic activity of a monolithic diesel oxidation catalyst. Applied Catalysis B: Environmental, 2009, 93, 177-184.	20.2	63
43	Aerobic oxidation of alcohols by organically modified ruthenium hydroxyapatite. Journal of Catalysis, 2006, 241, 287-295.	6.2	62
44	Molecular interaction between cinchonidine and acetic acid studied by NMR, FTIR and ab initio methods. Journal of the Chemical Society Perkin Transactions II, 1999, , 1305-1312.	0.9	61
45	On the State of Pd in Perovskite-Type Oxidation Catalysts of Composition A(B,Pd)O_{3Â±Î´} (A =) Tj ETQq1 1 0.784314 rgB	6.7	59
46	Flame-synthesized LaCoO3-supported Pd2. Catalytic behavior in the reduction of NO by H2 under lean conditions. Journal of Catalysis, 2007, 252, 137-147.	6.2	57
47	Au on Nanosized NiO: A Cooperative Effect between Au and Nanosized NiO in the Baseâ€Free Alcohol Oxidation. ChemCatChem, 2011, 3, 1612-1618.	3.7	57
48	Modulated Excitation Raman Spectroscopy of V₂O₅/TiO₂: Mechanistic Insights into the Selective Catalytic Reduction of NO with NH₃. ACS Catalysis, 2019, 9, 6814-6820.	11.2	56
49	Realizing Catalytic Acetophenone Hydrodeoxygenation with Palladium-Equipped Porous Organic Polymers. ACS Applied Materials & Interfaces, 2020, 12, 50550-50565.	8.0	55
50	Role of Bi promotion and solvent in platinum-catalyzed alcohol oxidation probed by in situ X-ray absorption and ATR-IR spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 5307.	2.8	54
51	DFT and ATR-IR insight into the conformational flexibility of cinchonidine adsorbed on platinum: Proton exchange with metal. Journal of Catalysis, 2005, 236, 1-8.	6.2	53
52	Structural Reversibility and Nickel Particle stability in Lanthanum Iron Nickel Perovskiteâ€Type Catalysts. ChemSusChem, 2017, 10, 2505-2517.	6.8	52
53	Detection of key transient Cu intermediates in SSZ-13 during NH₃-SCR deNO_x by modulation excitation IR spectroscopy. Chemical Science, 2020, 11, 447-455.	7.4	52
54	NO reduction by H2 over perovskite-like mixed oxides. Applied Catalysis B: Environmental, 1998, 16, 339-345.	20.2	51

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55	The Origin of Chemo- and Enantioselectivity in the Hydrogenation of Diketones on Platinum. Journal of the American Chemical Society, 2006, 128, 4048-4057.	13.7	51
56	Operando Synchrotron Xâ€ray Powder Diffraction and Modulatedâ€Excitation Infrared Spectroscopy Elucidate the CO₂ Promotion on a Commercial Methanol Synthesis Catalyst. Angewandte Chemie, 2016, 128, 11197-11202.	2.0	51
57	Selectivity Control in Palladium-Catalyzed Alcohol Oxidation through Selective Blocking of Active Sites. Journal of Physical Chemistry C, 2016, 120, 14027-14033.	3.1	50
58	ATR-IR Spectroscopy of Pendant NH2 Groups on Silica Involved in the Knoevenagel Condensation. Langmuir, 2006, 22, 3698-3706.	3.5	49
59	Catalytic combustion of methane on nano-structured perovskite-type oxides fabricated by ultrasonic spray combustion. Applied Catalysis B: Environmental, 2010, 94, 27-37.	20.2	49
60	Revealing the Dynamic Structure of Complex Solid Catalysts Using Modulated Excitation Xâ€ray Diffraction. Angewandte Chemie - International Edition, 2014, 53, 8890-8894.	13.8	48
61	Novel Routes to Cu(salicylaldimine) Covalently Bound to Silica:Â Combined Pulse EPR and in Situ Attenuated Total Reflection-IR Studies of the Immobilization. Inorganic Chemistry, 2003, 42, 2559-2571.	4.0	47
62	Synthesis, Crystal Structure and Optical Properties of LaNbON₂Â. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 905-912.	1.2	47
63	Controlling the Sense of Enantioselection on Surfaces by Conformational Changes of Adsorbed Modifiers. Angewandte Chemie - International Edition, 2007, 46, 3905-3908.	13.8	45
64	Influence of aging effects on the conversion efficiency of automotive exhaust gas catalysts. Catalysis Today, 2010, 155, 140-146.	4.4	45
65	The impact of aging environment on the evolution of Al2O3 supported Pt nanoparticles and their NO oxidation activity. Applied Catalysis B: Environmental, 2013, 129, 214-224.	20.2	45
66	Subsecond and in Situ Chemical Speciation of Pt/Al₂O₃ during Oxidationâ€“Reduction Cycles Monitored by High-Energy Resolution Off-Resonant X-ray Spectroscopy. Journal of the American Chemical Society, 2013, 135, 19071-19074.	13.7	43
67	Enhanced Enantioselectivity in Ethyl Pyruvate Hydrogenation Due to Competing Enantioselective Aldol Reaction Catalyzed by Cinchonidine. Journal of Catalysis, 2000, 193, 139-144.	6.2	41
68	Ruthenium at work in Ru-hydroxyapatite during the aerobic oxidation of benzyl alcohol: An in situ ATR-IR spectroscopy study. Journal of Catalysis, 2008, 258, 170-176.	6.2	41
69	NiO as a peculiar support for metal nanoparticles in polyols oxidation. Catalysis Science and Technology, 2013, 3, 394-399.	4.1	40
70	Dynamic Surface Processes of Nanostructured Pd2Ga Catalysts Derived from Hydrotalcite-Like Precursors. ACS Catalysis, 2014, 4, 2048-2059.	11.2	40
71	DRIFTS study of a commercial Ni/Î³-Al 2 O 3 CO methanation catalyst. Applied Catalysis A: General, 2015, 495, 104-114.	4.3	40
72	Role of Guiding Groups in Cinchona-Modified Platinum for Controlling the Sense of Enantiodifferentiation in the Hydrogenation of Ketones. Journal of the American Chemical Society, 2007, 129, 10582-10590.	13.7	39

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73	Selective Catalytic Reduction of NO with NH₃ on Cuâ"SSZâ€13: Deciphering the Low and Highâ€temperature Rateâ€limiting Steps by Transient XAS Experiments. ChemCatChem, 2020, 12, 1429-1435.	3.7	39
74	Solvent-Induced Conformational Changes ofO-Phenyl-cinchonidine:Â A Theoretical and VCD Spectroscopy Study. Journal of Physical Chemistry A, 2006, 110, 1118-1127.	2.5	38
75	Molecular insight into the dynamics of chiral modification of Pt/alumina. Journal of Catalysis, 2007, 248, 68-76.	6.2	38
76	Elucidation of structureâ€"activity relationships of model three way catalysts for the combustion of methane. Applied Catalysis B: Environmental, 2010, 94, 77-84.	20.2	38
77	Influence of the synthesis method on the structure of Pd-substituted perovskite catalysts for methane oxidation. Catalysis Today, 2013, 208, 42-47.	4.4	38
78	Kinetic Studies of the Pt Carbonate-Mediated, Room-Temperature Oxidation of Carbon Monoxide by Oxygen over Pt/Al₂O₃ Using Combined, Time-Resolved XAFS, DRIFTS, and Mass Spectrometry. Journal of the American Chemical Society, 2016, 138, 13930-13940.	13.7	38
79	Improvement of Catalytic Activity of LaFe_{0.95}Pd_{0.05}O₃ for Methane Oxidation under Transient Conditions. Journal of Physical Chemistry C, 2011, 115, 1231-1239.	3.1	37
80	Influence of thermally induced structural changes of 2wt% Pd/LaFeO3 on methane combustion activity. Applied Catalysis B: Environmental, 2011, 106, 494-502.	20.2	37
81	CO2 hydrogenation on a metal hydride surface. Physical Chemistry Chemical Physics, 2012, 14, 5518.	2.8	37
82	FTIR study of chiral modifierâ€"reactant interactions. The cinchonidineâ€"alkenoic acid system. Perkin Transactions II RSC, 2002, , 437-441.	1.1	36
83	Synchrotron high energy X-ray methods coupled to phase sensitive analysis to characterize aging of solid catalysts with enhanced sensitivity. Physical Chemistry Chemical Physics, 2013, 15, 8629.	2.8	36
84	Manipulating the reaction path of the CO₂ hydrogenation reaction in molecular sieves. Catalysis Science and Technology, 2015, 5, 4613-4621.	4.1	36
85	Sulfur Poisoning Recovery on a Solid Oxide Fuel Cell Anode Material through Reversible Segregation of Nickel. Chemistry of Materials, 2019, 31, 748-758.	6.7	36
86	Deactivation Aspects of Methane Oxidation Catalysts Based on Palladium and ZSM-5. Topics in Catalysis, 2017, 60, 123-130.	2.8	34
87	In situ attenuated total reflection infrared spectroscopy study of the photocatalytic steam reforming of methanol on Pt/TiO2. Applied Surface Science, 2018, 450, 146-154.	6.1	34
88	Stable Palladium Oxide Clusters Encapsulated in Silicalite-1 for Complete Methane Oxidation. ACS Catalysis, 2021, 11, 7371-7382.	11.2	34
89	Insight into the nature of active redox sites in Ru-containing hydroxyapatite by DRIFT spectroscopy. Journal of Catalysis, 2007, 251, 48-58.	6.2	33
90	Chemical Availability and Reactivity of Functional Groups grafted to Magnetic Nanoparticles monitored In situ by ATR-IR Spectroscopy. Chemistry of Materials, 2009, 21, 4316-4322.	6.7	33

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91	Modulated excitation extended X-ray absorption fine structure spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 10579-10591.	2.8	33
92	Dynamic restructuring of supported metal nanoparticles and its implications for structure insensitive catalysis. Nature Communications, 2021, 12, 7096.	12.8	33
93	Methane abatement under stoichiometric conditions on perovskite-supported palladium catalysts prepared by flame spray synthesis. Applied Catalysis B: Environmental, 2014, 144, 631-643.	20.2	32
94	Ageing induced improvement of methane oxidation activity of Pd/YFeO₃. Catalysis Science and Technology, 2014, 4, 2919.	4.1	31
95	Fluorescence-detected quick-scanning X-ray absorption spectroscopy. Journal of Synchrotron Radiation, 2020, 27, 681-688.	2.4	31
96	Competition of chiral modifiers on platinum: A transient catalytic and in situ ATR-IR study in continuous reactors. Journal of Catalysis, 2006, 244, 260-263.	6.2	30
97	Flame-made visible light active TiO2:Cr photocatalysts: Correlation between structural, optical and photocatalytic properties. Catalysis Today, 2013, 209, 47-53.	4.4	30
98	Conformational isomerism of Î±-ketoesters. A FTIR and ab initio study. Perkin Transactions II RSC, 2000, , 221-227.	1.1	29
99	The Fate of Ethyl Pyruvate during Adsorption on Platinum Chirally Modified by Cinchonidine Studied by ATRâ€"IR Spectroscopyâ€. Journal of Physical Chemistry B, 2004, 108, 14384-14391.	2.6	27
100	Theoretical and Spectroscopic Study of the Effect of Ring Substitution on the Adsorption of Anisole on Platinum. Journal of Physical Chemistry B, 2006, 110, 9956-9965.	2.6	27
101	A modulated excitation ED-EXAFS/DRIFTS study of hydrothermal ageing of Rh/Al2O3. Catalysis Today, 2014, 229, 80-87.	4.4	27
102	Alumina-catalysed degradation of ethyl pyruvate during enantioselective hydrogenation over Pt/alumina and its inhibition by acetic acid. Applied Catalysis A: General, 2006, 297, 165-173.	4.3	26
103	PdO x /Pd at Work in a Model Three-Way Catalyst for Methane Abatement Monitored by Operando XANES. Topics in Catalysis, 2013, 56, 239-242.	2.8	26
104	Thermal activation and aging of a V2O5/WO3-TiO2 catalyst for the selective catalytic reduction of NO with NH3. Applied Catalysis A: General, 2019, 573, 64-72.	4.3	25
105	Probing Catalytic Solid-Liquid Interfaces by Attenuated Total Reflection Infrared Spectroscopy: Adsorption of Carboxylic Acids on Alumina and Titania. Helvetica Chimica Acta, 2002, 85, 3639-3656.	1.6	24
106	Palladium-catalyzed oxidation of geraniol in dense carbon dioxide. Applied Catalysis A: General, 2006, 299, 66-72.	4.3	24
107	Structure and performance of zeolite supported Pd for complete methane oxidation. Catalysis Today, 2021, 382, 3-12.	4.4	24
108	Operando Attenuated Total Reflectance FTIR Spectroscopy: Studies on the Different Selectivity Observed in Benzyl Alcohol Oxidation. ChemCatChem, 2015, 7, 2534-2541.	3.7	23

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109	The Significance of Lewis Acid Sites for the Selective Catalytic Reduction of Nitric Oxide on Vanadiumâ€Based Catalysts. Angewandte Chemie, 2016, 128, 12168-12173.	2.0	22
110	Increasing the Sensitivity to Short-Lived Species in a Modulated Excitation Experiment. Analytical Chemistry, 2017, 89, 5801-5809.	6.5	21
111	Effect of SiO2 on co-impregnated V2O5/WO3/TiO2 catalysts for the selective catalytic reduction of NO with NH3. Catalysis Today, 2019, 320, 123-132.	4.4	21
112	HCN production from formaldehyde during the selective catalytic reduction of NOx with NH3 over V2O5/WO3-TiO2. Applied Catalysis B: Environmental, 2021, 281, 119462.	20.2	21
113	Chiral Modification of Rh and Pt Surfaces:â€‰ Effect of Rotational Flexibility of Cinchona-Type Modifiers on Their Adsorption Behavior. Journal of Physical Chemistry C, 2008, 112, 3866-3874.	3.1	20
114	Water Inhibition of Oxymethylene Dimethyl Ether Synthesis over Zeolite H-Beta: A Combined Kinetic and in Situ ATR-IR Study. ACS Catalysis, 2020, 10, 8106-8119.	11.2	20
115	Nickel incorporation in perovskite-type metal oxides â€“ Implications on reducibility. Acta Materialia, 2019, 164, 568-576.	7.9	19
116	Effect of Short Reducing Pulses on the Dynamic Structure, Activity, and Stability of Pd/Al₂O₃ for Wet Lean Methane Oxidation. ACS Catalysis, 2021, 11, 4870-4879.	11.2	19
117	Probing Surface Properties and Reaction Intermediates During Heterogeneous Catalytic Oxidation of Acetaldehyde. ChemCatChem, 2009, 1, 286-294.	3.7	18
118	Adsorption mode of the chiral modifier cinchonidine on Au(1 1 1). Applied Surface Science, 2007, 253, 3480-3484.	6.1	17
119	Time resolved operando spectroscopic study of the origin of phosphorus induced chemical aging of model three-way catalysts Pd/Al2O3. Catalysis Today, 2013, 205, 3-9.	4.4	17
120	High energy X-ray diffraction and IR spectroscopy of Pt/Al2O3 during CO oxidation in a novel catalytic reactor cell. Journal of Lithic Studies, 2017, 3, 71-78.	0.5	17
121	Catalytic Chiral Metal Surfaces Generated by Adsorption ofO-Phenyl Derivatives of Cinchonidine. Journal of Physical Chemistry C, 2007, 111, 9349-9358.	3.1	16
122	Operando XANES study of simulated transient cycles on a Pd-only three-way catalyst. Catalysis Communications, 2013, 39, 55-59.	3.3	16
123	Influence of CO on Dry CH4 Oxidation on Pd/Al2O3 by Operando Spectroscopy: A Multitechnique Modulated Excitation Study. ACS Catalysis, 2020, 10, 4791-4804.	11.2	16
124	Structural properties of flame-made Rh/Al2O3 and catalytic behavior in chemoselective hydrogenation. Journal of Catalysis, 2007, 249, 269-277.	6.2	15
125	Promotion of Ammonium Formate and Formic Acid Decomposition over Au/TiO2 by Support Basicity under SCR-Relevant Conditions. ACS Catalysis, 2015, 5, 4772-4782.	11.2	15
126	Reversible Segregation of Ni in LaFe 0.8 Ni 0.2 O 3Â± Î´ During Coke Removal. ChemCatChem, 2018, 10, 4456-4464.	3.7	15

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127	Ruthenium on phosphorous-modified alumina as an effective and stable catalyst for catalytic transfer hydrogenation of furfural. RSC Advances, 2020, 10, 11507-11516.	3.6	15
128	Interactions of a vinyl ether with acid-modified silica-based catalyst studied by ATR-IR spectroscopy. Journal of Catalysis, 2003, 219, 425-433.	6.2	14
129	Cinchonidine Adsorption on Gold and Gold-Containing Bimetallic Platinum Metal Surfaces:â€‰ An Attenuated Total Reflection Infrared and Density Functional Theory Study. Journal of Physical Chemistry B, 2006, 110, 17082-17089.	2.6	14
130	Why are Î±-hydroxycarboxylic acids poor chiral modifiers for Pt in the hydrogenation of ketones?. Journal of Catalysis, 2006, 237, 230-236.	6.2	14
131	Chirally Modified Platinum Generated by Adsorption of Cinchonidine Ether Derivatives: Towards Uncovering the Chiral Sites. Chemistry - A European Journal, 2007, 13, 9236-9244.	3.3	14
132	In situ study of metal leaching from Pd/Al₂O₃ induced by K₂CO₃. Catalysis Science and Technology, 2020, 10, 466-474.	4.1	14
133	Design of a Reactor Cell for Modulated Excitation Raman and DiffuseÂReflectance Studies of Selective Catalytic Reduction Catalysts. Emission Control Science and Technology, 2019, 5, 307-316.	1.5	13
134	Increased nickel exsolution from LaFe0.8Ni0.2O3 perovskite-derived CO2 methanation catalysts through strontium doping. Applied Catalysis A: General, 2020, 590, 117328.	4.3	13
135	One-pot synthesis of highly dispersed mesoporous Cu/ZrO2 catalysts for NH3-SCR. Catalysis Today, 2022, 384-386, 113-121.	4.4	13
136	Surface Processes Occurring on Rh/Alumina during Chiral Modification by Cinchonidine:â€‰ An ATR-IR Spectroscopy Study. Langmuir, 2007, 23, 8087-8093.	3.5	12
137	Enantioselective Interactions at the Solidâ€“Liquid Interface of an HPLC Column under Working Conditions. Analytical Chemistry, 2008, 80, 3572-3583.	6.5	12
138	WOâ‚ƒ/CeOâ‚‚/TiOâ‚‚ Catalysts for Selective Catalytic Reduction of NOx by NHâ‚ƒ: Effect of the Synthesis Method. Chimia, 2015, 69, 220.	0.6	12
139	An operando emission spectroscopy study of Pt/Al₂O₃ and Pt/CeO₂/Al₂O₃. Physical Chemistry Chemical Physics, 2016, 18, 29268-29277.	2.8	12
140	Reaction pathways of methane abatement in Pd-Rh three-way catalyst in heavy duty applications: A combined approach based on exhaust analysis, model gas reactor and DRIFTS measurements. Chemical Engineering Journal, 2021, 422, 129932.	12.7	12
141	In situ spectroscopic studies of the effect of water on the redox cycle of Cu ions in Cu-SSZ-13 during selective catalytic reduction of NO_x. Chemical Communications, 2022, 58, 6610-6613.	4.1	12
142	Probing the Interface in Vapor-Deposited Pdâ^'Au and Ptâ^'Au Films by CO Adsorption from the Liquid Phase. Langmuir, 2007, 23, 1203-1208.	3.5	11
143	Structural Modification of Ni/Î³â€Al₂O₃ with Boron for Enhanced Carbon Resistance during CO Methanation. ChemCatChem, 2015, 7, 3261-3265.	3.7	11
144	Water-assisted oxygen activation during gold-catalyzed formic acid decomposition under SCR-relevant conditions. Journal of Catalysis, 2017, 349, 197-207.	6.2	11

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145	Crystallization of an Aromatic Biopolyester. Macromolecules, 2009, 42, 6322-6326.	4.8	10
146	Redox properties of supported copper catalysts studied in liquid and gas phase by in situ ATR-IR and XAS. Catalysis Today, 2011, 178, 124-131.	4.4	10
147	Mitigation of Secondary Organic Aerosol Formation from Log Wood Burning Emissions by Catalytic Removal of Aromatic Hydrocarbons. Environmental Science & Technology, 2018, 52, 13381-13390.	10.0	10
148	Catalytic Adventures in Space and Time Using High Energy X-rays. Catalysis Surveys From Asia, 2014, 18, 134-148.	2.6	9
149	Structural Reversibility of LaCo_{1â€x}Cu_xO₃ Followed by In Situ Xâ€ray Diffraction and Absorption Spectroscopy. ChemPhysChem, 2018, 19, 1876-1885.	2.1	9
150	On the relevance of P poisoning in real-world DOC aging. Applied Catalysis B: Environmental, 2021, 291, 120062.	20.2	9
151	Preferential oxidation of CO on a La-Co-Ru perovskite-type oxide catalyst. Catalysis Communications, 2017, 92, 75-79.	3.3	8
152	Understanding the impact of poison distribution on the performance of Diesel oxidation catalysts. Applied Catalysis B: Environmental, 2021, 299, 120684.	20.2	8
153	Operando diffuse reflectance infrared detection of cyanide intermediate species during the reaction of formaldehyde with ammonia over V2O5/WO3-TiO2. Applied Catalysis B: Environmental, 2021, 298, 120629.	20.2	8
154	From production to product: part 2, FT-IR spectroscopy as a tool for quality control in the preparation of alkaline solutions of bagasse lignin. Industrial Crops and Products, 2004, 20, 159-167.	5.2	7
155	Perovskite-supported Palladium for Methane Oxidation â€“ Structureâ€“Activity Relationships. Chimia, 2012, 66, 675-680.	0.6	7
156	Reduction of PdO/Al₂O₃ in Liquid Cyclohexane Followed In Situ by ATR-IR, High-Energy XRD, and XAS. Journal of Physical Chemistry C, 2021, 125, 16473-16482.	3.1	7
157	Lab Scale Fixed-Bed Reactor for Operando X-Ray Absorption Spectroscopy for Structure Activity Studies of Supported Metal Oxide Catalysts. Topics in Catalysis, 2011, 54, 1213-1218.	2.8	6
158	Chromium-induced deactivation of a commercial honeycomb noble metal-based CO oxidation catalyst. Applied Catalysis A: General, 2014, 469, 259-266.	4.3	6
159	Mechanistic implications of lanthanum-modification on gold-catalyzed formic acid decomposition under SCR-relevant conditions. Applied Catalysis B: Environmental, 2019, 244, 709-718.	20.2	6
160	Pd-LaFeO₃ Catalysts in Aqueous Ethanol: Pd Reduction, Leaching, and Structural Transformations in the Presence of a Base. ACS Catalysis, 2020, 10, 3933-3944.	11.2	6
161	Changes of Pd Oxidation State in Pd/Al2O3 Catalysts Using Modulated Excitation DRIFTS. Catalysts, 2021, 11, 116.	3.5	6
162	Restructuring Ni/Al2O3 by addition of Ga to shift product selectivity in CO2 hydrogenation: The role of hydroxyl groups. Journal of CO2 Utilization, 2022, 57, 101881.	6.8	6

#	Article	IF	Citations
163	Interconversion between Lewis and BrÃ¸nstedâ€“Lowry acid sites on vanadia-based catalysts. Physical Chemistry Chemical Physics, 2022, 24, 4555-4561.	2.8	6
164	Debinding Mechanisms in Thermoplastic processing of a Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â^'Î´}â€•Stearic Acidâ€“Polystyrene Mixture. ChemSusChem, 2013, 6, 336-344.	6.8	5
165	Structured Alumina Substrates for Environmental Catalysis Produced by Stereolithography. Applied Sciences (Switzerland), 2021, 11, 8239.	2.5	5
166	Deactivation of Industrial Pd/Al₂O₃ Catalysts by Ethanol: A Spectroscopic Study. ChemCatChem, 2021, 13, 900-908.	3.7	5
167	Gas phasevs.liquid phase: monitoring H₂and CO adsorption phenomena on Pt/Al₂O₃by IR spectroscopy. Catalysis Science and Technology, 2022, 12, 1359-1367.	4.1	5
168	Pd Loading and Structure of Flame-Made Pd/YFeO3Â±Î´. Topics in Catalysis, 2015, 58, 910-918.	2.8	4
169	Phase transitions of BaTi0.9Rh0.1O3Â± perovskite-type oxides under reducing environments. Materials Research Bulletin, 2015, 61, 130-135.	5.2	4
170	Investigation on the Role of Pd, Pt, Rh in Methane Abatement for Heavy Duty Applications. Catalysts, 2022, 12, 373.	3.5	4
171	Segregation of Nickel/Iron Bimetallic Particles from Lanthanum Doped Strontium Titanates to Improve Sulfur Stability of Solid Oxide Fuel Cell Anodes. Catalysts, 2019, 9, 332.	3.5	3
172	CuO/La_{0.5}Sr_{0.5}CoO₃: precursor of efficient NO reduction catalyst studied by operando high energy X-ray diffraction under three-way catalytic conditions. Physical Chemistry Chemical Physics, 2020, 22, 18798-18805.	2.8	3
173	Effect of Pt Particle Size and Phosphorous Addition on Furfural Hydrogenation Over Pt/Al2O3. Catalysis Letters, 2022, 152, 980-990.	2.6	3
174	In Situ Infrared Spectroscopy of NO_x Reduction Catalysts: A Laboratory Exercise for In-Person and Virtual Learning. Journal of Chemical Education, 2022, 99, 2649-2655.	2.3	3
175	Structure Sensitivity of Palladium-Catalyzed Liquid-Phase Alcohol Oxidation. A Combined <I>in situ</I> ATR-IR and Selective Site Blocking Study. Chimia, 2007, 61, 175-178.	0.6	2
176	Catalysis by Metals on Perovskite-Type Oxides. Catalysts, 2020, 10, 1062.	3.5	2
177	Effect of an Al2O3-based binder on the structure of extruded Fe-ZSM-5. Catalysis Today, 2022, 387, 207-215.	4.4	2
178	Experimental and modeling-based analysis of reaction pathways on catalysts for natural gas engines under periodic lean/rich oscillations. Chemical Engineering Journal, 2022, 430, 132848.	12.7	2
179	Observations on the Aging Environment Dependent NO Oxidation Activity of Model Pt/Al2O3 Diesel Oxidation Catalyst. Topics in Catalysis, 2013, 56, 329-332.	2.8	1
180	Advances in the use of X-rays for the characterization of functional catalytic materials. Catalysis Today, 2014, 229, 1.	4.4	1

#	Article	IF	Citations
181	Genesis of a Coâ€“Salicylaldimine Complex on Silica Followed in Situ by FTIR and XAS. ChemPhysChem, 2017, 18, 2835-2839.	2.1	1
182	Energy Conversion Processes with Perovskite-type Materials. Chimia, 2019, 73, 913.	0.6	0