

Marco Daturi

List of Publications by Year in descending order

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214
papers

19,026
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17440

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times ranked

16687
citing authors

#	ARTICLE	IF	CITATIONS
1	A simultaneous operando FTIR & Raman study of propane ODH mechanism over V-Zr-O catalysts. <i>Catalysis Today</i> , 2022, 387, 197-206.	4.4	10
2	Cu- and Fe-speciation in a composite zeolite catalyst for selective catalytic reduction of NO _x : insights from <i>operando</i> XAS. <i>Catalysis Science and Technology</i> , 2021, 11, 846-860.	4.1	8
3	Unraveling the Origin of Photocatalytic Deactivation in CeO ₂ /Nb ₂ O ₅ Heterostructure Systems during Methanol Oxidation: Insight into the Role of Cerium Species. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12650-12662.	3.1	4
4	Upgrading the PtCu intermetallic compounds: The role of Pt and Cu in the alloy. <i>Catalysis Today</i> , 2020, 356, 390-398.	4.4	10
5	Ultrafast time-resolved quantum cascade laser diagnostic for revealing the role of surface formate species in the photocatalytic oxidation of methanol. <i>Catalysis Science and Technology</i> , 2020, 10, 5618-5627.	4.1	6
6	<i>Operando</i> Reactor-Cell with Simultaneous Transmission FTIR and Raman Characterization (IRRaman) for the Study of Gas-Phase Reactions with Solid Catalysts. <i>Analytical Chemistry</i> , 2020, 92, 5100-5106.	6.5	20
7	Tuning Cellular Biological Functions Through the Controlled Release of NO from a Porous Ti-MOF. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5135-5143.	13.8	62
8	Tuning Cellular Biological Functions Through the Controlled Release of NO from a Porous Ti-MOF. <i>Angewandte Chemie</i> , 2020, 132, 5173-5181.	2.0	12
9	Insight into methanol photooxidation over mono- (Au, Cu) and bimetallic (AuCu) catalysts supported on niobium pentoxide – An <i>operando</i> -IR study. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117978.	20.2	19
10	Photo-assisted SCR over highly dispersed silver sub-nanoparticles in zeolite under visible light: An <i>Operando</i> FTIR study. <i>Solar Energy</i> , 2019, 189, 244-253.	6.1	8
11	A High Proton Conductive Hydrogen-Sulfate Decorated Titanium Carboxylate Metal-Organic Framework. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5776-5783.	6.7	40
12	Al ₂ O ₃ -supported Pt/Rh catalysts for NO _x removal under lean conditions. <i>Applied Catalysis A: General</i> , 2019, 581, 43-57.	4.3	6
13	A MOF-assisted phosphine free bifunctional iron complex for the hydrogenation of carbon dioxide, sodium bicarbonate and carbonate to formate. <i>Chemical Communications</i> , 2019, 55, 4977-4980.	4.1	33
14	Selective catalytic reduction of NO _x over Cu- and Fe-exchanged zeolites and their mechanical mixture. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 419-428.	20.2	61
15	Coupling a Rapid-Scan FT-IR Spectrometer with Quantum Cascade Lasers within a Single Setup: An Easy Way to Reach Microsecond Time Resolution without Losing Spectral Information. <i>Analytical Chemistry</i> , 2019, 91, 4368-4373.	6.5	10
16	In-depth insights into N ₂ O formation over Rh- and Pt-based LNT catalysts. <i>Catalysis Today</i> , 2019, 320, 141-151.	4.4	17
17	Transient <i>operando</i> study on the NH ₃ /NH ₄ ⁺ interplay in V-SCR monolithic catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 109-115.	20.2	48
18	3. Spectroscopic Methods of Characterization for Zeolites and MOFs. , 2018, , 53-88.		0

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19	TiO ₂ /Zeolite Bifunctional (Photo)Catalysts for a Selective Conversion of Methanol to Dimethoxymethane: On the Role of Brønsted Acidity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29359-29367.	3.1	10
20	CO/H ₂ adsorption on a Ru/Al ₂ O ₃ model catalyst for Fischer Tropsch: Effect of water concentration on the surface species. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 986-995.	20.2	24
21	Chapter 7. Mechanistic Aspects of the Reduction of the Stored NO _x by H ₂ Investigated by Isotopic Labelling Experiments and FTIR Spectroscopy. <i>RSC Catalysis Series</i> , 2018, , 187-212.	0.1	1
22	Metal-organic and covalent organic frameworks as single-site catalysts. <i>Chemical Society Reviews</i> , 2017, 46, 3134-3184.	38.1	861
23	Selective nitrogen capture by porous hybrid materials containing accessible transition metal ion sites. <i>Nature Materials</i> , 2017, 16, 526-531.	27.5	201
24	Modelling a reactor cell for operando IR studies: From qualitative to fully quantitative kinetic investigations. <i>Catalysis Today</i> , 2017, 283, 176-184.	4.4	23
25	Study of N ₂ O Formation over Rh- and Pt-Based LNT Catalysts. <i>Catalysts</i> , 2016, 6, 36.	3.5	16
26	Metal Organic Framework Crystals in Mixed-Matrix Membranes: Impact of the Filler Morphology on the Gas Separation Performance. <i>Advanced Functional Materials</i> , 2016, 26, 3154-3163.	14.9	225
27	Influence of ZIF-8 particle size in the performance of polybenzimidazole mixed matrix membranes for pre-combustion CO ₂ capture and its validation through interlaboratory test. <i>Journal of Membrane Science</i> , 2016, 515, 45-53.	8.2	145
28	Mechanistic Aspects of N ₂ O Formation Over Pt-Based Lean NO _x Trap Catalysts. <i>Topics in Catalysis</i> , 2016, 59, 976-981.	2.8	7
29	Dynamics of CrO ₃ -Fe ₂ O ₃ Catalysts during the High-Temperature Water-Gas Shift Reaction: Molecular Structures and Reactivity. <i>ACS Catalysis</i> , 2016, 6, 4786-4798.	11.2	68
30	Direct dehydration of 1,3-butanediol into butadiene over aluminosilicate catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 5830-5840.	4.1	49
31	The effect of niobium and tantalum on physicochemical and catalytic properties of silver and platinum catalysts based on MCF mesoporous cellular foams. <i>Journal of Catalysis</i> , 2016, 336, 58-74.	6.2	17
32	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.	20.2	17
33	A Relevant Estimation of the TOF for Methanol Oxidation Over Au/CeO ₂ : A Combined SSITKA and FTIR Operando Contribution. <i>Topics in Catalysis</i> , 2016, 59, 337-346.	2.8	10
34	Adsorptive Separation of Acetylene from Light Hydrocarbons by Mesoporous Iron Trimesate MIL-100(Fe). <i>Chemistry - A European Journal</i> , 2015, 21, 18431-18438.	3.3	51
35	New synthesis and biodistribution of the D-amino acid oxidase-magnetic nanoparticle system. <i>Future Science OA</i> , 2015, 1, FSO67.	1.9	11
36	The Structure of the Aluminum Fumarate Metal-Organic Framework A520. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3664-3668.	13.8	206

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37	Tuning the properties of the UiO-66 metal organic framework by Ce substitution. <i>Chemical Communications</i> , 2015, 51, 14458-14461.	4.1	79
38	Direct accessibility of mixed-metal (<sc>iii</sc>/<sc>ii</sc>) acid sites through the rational synthesis of porous metal carboxylates. <i>Chemical Communications</i> , 2015, 51, 10194-10197.	4.1	63
39	On the mechanism of methanol photooxidation to methylformate and carbon dioxide on TiO ₂ : an operando-FTIR study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11277-11283.	2.8	44
40	Shaping up operando spectroscopy: Raman characterization of a working honeycomb monolith. <i>Catalysis Science and Technology</i> , 2015, 5, 4942-4945.	4.1	13
41	Acid-functionalized UiO-66(Zr) MOFs and their evolution after intra-framework cross-linking: structural features and sorption properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3294-3309.	10.3	174
42	FTIR spectroscopic study of CO oxidation on bimetallic catalysts. <i>Catalysis Today</i> , 2015, 243, 218-227.	4.4	15
43	Porous, rigid metal(III)-carboxylate metal-organic frameworks for the delivery of nitric oxide. <i>APL Materials</i> , 2014, 2, .	5.1	66
44	The influence of CO ₂ and H ₂ O on the storage properties of Pt-Ba/Al ₂ O ₃ LNT catalyst studied by FT-IR spectroscopy and transient microreactor experiments. <i>Catalysis Today</i> , 2014, 231, 116-124.	4.4	29
45	Effect of the ligand functionalization on the acid-base properties of flexible MOFs. <i>Microporous and Mesoporous Materials</i> , 2014, 195, 197-204.	4.4	16
46	Unusual IR ring mode splittings for pyridinium species in H ₃ PW ₁₂ O ₄₀ heteropolyacid: involvement of the $\hat{\nu}$ NH internal mode. <i>RSC Advances</i> , 2014, 4, 19159-19164.	3.6	2
47	Sr ₂₁ Bi ₈ Cu ₂ (CO ₃) ₂₀ 41, a Bi ⁵⁺ Oxycarbonate with an Original 10L Structure. <i>Inorganic Chemistry</i> , 2014, 53, 10266-10275.	4.0	1
48	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.	20.2	19
49	Synthesis Modulation as a Tool To Increase the Catalytic Activity of Metal-Organic Frameworks: The Unique Case of UiO-66(Zr). <i>Journal of the American Chemical Society</i> , 2013, 135, 11465-11468.	13.7	871
50	Spectrokinetic Analysis of the NO _x Storage Over a Pt-Ba/Al ₂ O ₃ Lean NO _x Trap Catalyst. <i>Topics in Catalysis</i> , 2013, 56, 311-316.	2.8	13
51	A robust amino-functionalized titanium(IV) based MOF for improved separation of acid gases. <i>Chemical Communications</i> , 2013, 49, 10082.	4.1	135
52	Operando Infrared (IR) Coupled to Steady-State Isotopic Transient Kinetic Analysis (SSITKA) for Photocatalysis: Reactivity and Mechanistic Studies. <i>ACS Catalysis</i> , 2013, 3, 2790-2798.	11.2	35
53	Catalytic CO ₂ valorization into CH ₄ on Ni-based ceria-zirconia. Reaction mechanism by operando IR spectroscopy. <i>Catalysis Today</i> , 2013, 215, 201-207.	4.4	395
54	Zeolite MCM-22 Modified with Au and Cu for Catalytic Total Oxidation of Methanol and Carbon Monoxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2147-2159.	3.1	39

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55	Evaluation of MIL-47(V) for CO ₂ -Related Applications. <i>Journal of Physical Chemistry C</i> , 2013, 117, 962-970.	3.1	42
56	Does Pelletizing Catalysts Influence the Efficiency Number of Activity Measurements? Spectrochemical Engineering Considerations for an Accurate Operando Study. <i>ACS Catalysis</i> , 2013, 3, 86-94.	11.2	28
57	Effect of Pd addition on the efficiency of a NO _x -trap catalyst: A FTIR operando study. <i>Catalysis Today</i> , 2013, 205, 24-33.	4.4	11
58	Nitric Oxide Adsorption and Delivery in Flexible MIL-88(Fe) Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2013, 25, 1592-1599.	6.7	243
59	A rare example of a porous Ca-MOF for the controlled release of biologically active NO. <i>Chemical Communications</i> , 2013, 49, 7773.	4.1	138
60	N/S-Heterocyclic Contaminant Removal from Fuels by the Mesoporous Metal-Organic Framework MIL-100: The Role of the Metal Ion. <i>Journal of the American Chemical Society</i> , 2013, 135, 9849-9856.	13.7	138
61	Isomorphous Substitution in a Flexible Metal-Organic Framework: Mixed-Metal, Mixed-Valent MIL-53 Type Materials. <i>Inorganic Chemistry</i> , 2013, 52, 8171-8182.	4.0	64
62	Structural characteristics of an amorphous VPO monolayer on alumina for propane ammoxidation. <i>Catalysis Today</i> , 2012, 192, 96-103.	4.4	10
63	Infrared evidence of room temperature dissociative adsorption of carbon monoxide over Ag/Al ₂ O ₃ . <i>Catalysis Today</i> , 2012, 197, 155-161.	4.4	19
64	Monitoring catalysts at work in their final form: spectroscopic investigations on a monolithic catalyst. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2171-2177.	2.8	20
65	Comparison of Porous Iron Trimesates Basolite F300 and MIL-100(Fe) As Heterogeneous Catalysts for Lewis Acid and Oxidation Reactions: Roles of Structural Defects and Stability. <i>ACS Catalysis</i> , 2012, 2, 2060-2065.	11.2	213
66	Probing the adsorption performance of the hybrid porous MIL-68(Al): a synergic combination of experimental and modelling tools. <i>Journal of Materials Chemistry</i> , 2012, 22, 10210.	6.7	124
67	Discovering the Active Sites for C ₃ Separation in MIL-100(Fe) by Using Operando IR Spectroscopy. <i>Chemistry - A European Journal</i> , 2012, 18, 11959-11967.	3.3	97
68	Tuning the breathing behaviour of MIL-53 by cation mixing. <i>Chemical Communications</i> , 2012, 48, 10237.	4.1	129
69	Well-studied Cu-BTC still serves surprises: evidence for facile Cu ²⁺ /Cu ⁺ interchange. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4383.	2.8	91
70	Novel sol-gel prepared zinc fluoride: synthesis, characterisation and acid-base sites analysis. <i>Journal of Materials Chemistry</i> , 2012, 22, 14587.	6.7	26
71	Infrared Spectroscopy Investigation of the Acid Sites in the Metal-Organic Framework Aluminum Trimesate MIL-100(Al). <i>Journal of Physical Chemistry C</i> , 2012, 116, 5710-5719.	3.1	136
72	Effect of the organic functionalization of flexible MOFs on the adsorption of CO ₂ . <i>Journal of Materials Chemistry</i> , 2012, 22, 10266.	6.7	125

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73	New insights into the methanol oxidation mechanism over Au/CeO ₂ catalyst through complementary kinetic and FTIR operando SSITKA approaches. <i>Catalysis Today</i> , 2012, 182, 3-11.	4.4	30
74	The NO/NO _x ratio effect on the NH ₃ -SCR efficiency of a commercial automotive Fe-zeolite catalyst studied by operando IR-MS. <i>Applied Catalysis B: Environmental</i> , 2012, 113-114, 52-60.	20.2	46
75	On the reducibility of sulfated Pt/CeZr _{1-x} O ₂ solids: A coupled thermogravimetric FT-IR study using CO as the reducing agent. <i>Applied Catalysis B: Environmental</i> , 2012, 119-120, 207-216.	20.2	20
76	MIL-100(V) – A mesoporous vanadium metal organic framework with accessible metal sites. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 18-23.	4.4	94
77	Relevance of the Nitrite Route in the NO _x Adsorption Mechanism over Pt ₂ /Ba/Al ₂ O ₃ NO _x Storage Reduction Catalysts Investigated by using Operando FTIR Spectroscopy. <i>ChemCatChem</i> , 2012, 4, 55-58.	3.7	46
78	Energy-Efficient Dehumidification over Hierarchically Porous Metal-Organic Frameworks as Advanced Water Adsorbents. <i>Advanced Materials</i> , 2012, 24, 806-810.	21.0	298
79	Étude par spectroscopie IR operando de matériaux catalytiques pour le traitement des pollutions des habitacles de véhicules : mise en évidence des sites actifs, des espèces intermédiaires/spectatrices et 0.9 des mécanismes réactionnels. <i>Matériaux Et Techniques</i> , 2012, 100, 201-210.		0
80	How to determine IR molar absorption coefficients of co-adsorbed species? Application to methanol adsorption for quantification of MgO basic sites. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10797.	2.8	26
81	Infrared study of the influence of reducible iron(III) metal sites on the adsorption of CO, CO ₂ , propane, propene and propyne in the mesoporous metal-organic framework MIL-100. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11748.	2.8	192
82	Vibrational spectroscopic studies of catalytic processes on oxide surfaces. <i>Spectroscopic Properties of Inorganic and Organometallic Compounds</i> , 2011, , 34-103.	0.4	6
83	Why hybrid porous solids capture greenhouse gases?. <i>Chemical Society Reviews</i> , 2011, 40, 550-562.	38.1	603
84	Diesel Lean NO _x -Trap Thermal Aging and Performance Evolution Characterization. <i>Oil and Gas Science and Technology</i> , 2011, 66, 845-853.	1.4	5
85	A co-templating route to the synthesis of Cu SAPO STA-7, giving an active catalyst for the selective catalytic reduction of NO. <i>Microporous and Mesoporous Materials</i> , 2011, 146, 36-47.	4.4	44
86	Impact of thermal and vehicle aging on the structure and functionalities of a lean NO _x -trap. <i>Catalysis Today</i> , 2011, 176, 56-62.	4.4	17
87	Influence of the Oxidation State of the Metal Center on the Flexibility and Adsorption Properties of a Porous Metal Organic Framework: MIL-47(V). <i>Journal of Physical Chemistry C</i> , 2011, 115, 19828-19840.	3.1	89
88	How Linker's Modification Controls Swelling Properties of Highly Flexible Iron(III) Dicarboxylates MIL-88. <i>Journal of the American Chemical Society</i> , 2011, 133, 17839-17847.	13.7	383
89	An Evaluation of LiO ₂ for Gas-Based Applications. <i>Chemistry - an Asian Journal</i> , 2011, 6, 3270-3280.	3.3	192
90	The Porosity, Acidity, and Reactivity of Dealuminated Zeolite ZSM-5 at the Single Particle Level: The Influence of the Zeolite Architecture. <i>Chemistry - A European Journal</i> , 2011, 17, 13773-13781.	3.3	94

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91	An operando IR study of the unburnt HC effect on the activity of a commercial automotive catalyst for NH ₃ -SCR. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 190-200.	20.2	37
92	Synthesis and characterization of a series of porous lanthanide tricarboxylates. <i>Microporous and Mesoporous Materials</i> , 2011, 140, 25-33.	4.4	50
93	Functionalization in Flexible Porous Solids: Effects on the Pore Opening and the Host-Guest Interactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 1127-1136.	13.7	445
94	Investigation of Methanol Oxidation over Au/Catalysts Using Operando IR Spectroscopy: Determination of the Active Sites, Intermediate/Spectator Species, and Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2010, 132, 10832-10841.	13.7	103
95	Fe-H-BEA and Fe-H-ZSM-5 for NO ₂ removal from ambient air – A detailed in situ and operando FTIR study revealing an unexpected positive water-effect. <i>Journal of Catalysis</i> , 2010, 271, 1-11.	6.2	54
96	Controlled Reducibility of a Metal-Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5949-5952.	13.8	526
97	Evidencing three distinct FeII sites in Fe-FER zeolites by using CO and NO as complementary IR probes. <i>Applied Catalysis B: Environmental</i> , 2010, 93, 325-338.	20.2	32
98	Novel mesoporous zirconia-based catalysts for WGS reaction. <i>Applied Catalysis B: Environmental</i> , 2010, 97, 49-56.	20.2	27
99	CO and NO adsorption for the IR characterization of Fe ²⁺ cations in ferrierite: An efficient catalyst for NO _x SCR with NH ₃ as studied by operando IR spectroscopy. <i>Catalysis Today</i> , 2010, 149, 295-303.	4.4	38
100	Meso-macroporous zirconia modified with niobia as support for platinum – Acidic and basic properties. <i>Catalysis Today</i> , 2010, 152, 33-41.	4.4	34
101	Infrared Investigation of the Acid and Basic Properties of a Sol-Gel Prepared MgF ₂ . <i>Journal of Physical Chemistry C</i> , 2010, 114, 5113-5120.	3.1	41
102	Analysing and understanding the active site by IR spectroscopy. <i>Chemical Society Reviews</i> , 2010, 39, 4928.	38.1	196
103	Explanation of the Adsorption of Polar Vapors in the Highly Flexible Metal Organic Framework MIL-53(Cr). <i>Journal of the American Chemical Society</i> , 2010, 132, 9488-9498.	13.7	185
104	A thermogravimetric and FT-IR study of the reduction by H ₂ of sulfated Pt/CeZr _{1-x} O ₂ solids. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 368-379.	20.2	28
105	Co-adsorption and Separation of CO ₂ and CH ₄ Mixtures in the Highly Flexible MIL-53(Cr) MOF. <i>Journal of the American Chemical Society</i> , 2009, 131, 17490-17499.	13.7	398
106	Iron Nitrosyl Species in Fe-FER: A Complementary Mössbauer and FTIR Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8387-8393.	3.1	31
107	The use of multiple probe molecules for the study of the acid-base properties of aluminium hydroxyfluoride having the hexagonal tungsten bronze structure: FTIR and [36Cl] radiotracer studies. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1369.	2.8	18
108	Real-Time Infrared Detection of Cyanide Flip on Silver-Alumina NO _x Removal Catalyst. <i>Science</i> , 2009, 324, 1048-1051.	12.6	98

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109	Amine Grafting on Coordinatively Unsaturated Metal Centers of MOFs: Consequences for Catalysis and Metal Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4144-4148.	13.8	1,111
110	Catalytic Performance of Nanoscopic, Aluminium Trifluoride-Based Catalysts in the Synthesis of (all- <i>cis</i>)- α -tocopherol. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2517-2524.	4.3	45
111	High Uptakes of CO ₂ and CH ₄ in Mesoporous Metal-Organic Frameworks MIL-100 and MIL-101. <i>Langmuir</i> , 2008, 24, 7245-7250.	3.5	1,067
112	Structural investigations and acidic properties of high surface area pyrochlore aluminium hydroxyfluoride. <i>Journal of Materials Chemistry</i> , 2008, 18, 2483.	6.7	49
113	A multidisciplinary approach to understanding sorption induced breathing in the metal organic framework MIL53(Cr). <i>Studies in Surface Science and Catalysis</i> , 2007, , 1008-1014.	1.5	5
114	Chapter 4 general features of in situ and operando spectroscopic investigation in the particular case Of DeNO _x reactions. <i>Studies in Surface Science and Catalysis</i> , 2007, , 97-143.	1.5	10
115	Creation of Controlled Brønsted Acidity on a Zeotypic Mesoporous Chromium(III) Carboxylate by Grafting Water and Alcohol Molecules. <i>Journal of Physical Chemistry C</i> , 2007, 111, 383-388.	3.1	92
116	Unusual Carbonyl-Nitrosyl Complexes of Rh ₂ in Rh-ZSM-5: A Combined FTIR Spectroscopy and Computational Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10412-10418.	3.1	13
117	Determination of the Acidity of High Surface AlF ₃ by IR Spectroscopy of Adsorbed CO Probe Molecules. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18317-18325.	3.1	54
118	Defects in Divided Zinc-Copper Aluminate Spinel: Structural Features and Optical Absorption Properties. <i>Inorganic Chemistry</i> , 2007, 46, 4067-4078.	4.0	41
119	Evidence of CO ₂ molecule acting as an electron acceptor on a nanoporous metal-organic-framework MIL-53 or Cr ₃ (OH)(O ₂ C ₆ H ₄ CO ₂). <i>Chemical Communications</i> , 2007, , 3291.	4.1	117
120	Catalytic Production of H ₂ : Evidences of Steam Reforming Mechanisms via Operando IR Spectroscopy. <i>Studies in Surface Science and Catalysis</i> , 2007, , 297-300.	1.5	0
121	An Explanation for the Very Large Breathing Effect of a Metal-Organic Framework during CO ₂ Adsorption. <i>Advanced Materials</i> , 2007, 19, 2246-2251.	21.0	501
122	Operando systems for the evaluation of the catalytic performance of NO _x storage and reduction materials. <i>Catalysis Today</i> , 2007, 119, 73-77.	4.4	10
123	FTIR spectroscopy study of CO and NO adsorption and co-adsorption on Pt/TiO ₂ . <i>Journal of Molecular Catalysis A</i> , 2007, 274, 179-184.	4.8	109
124	Lanthanum oxides for the selective synthesis of phytosterol esters: Correlation between catalytic and acid-base properties. <i>Journal of Catalysis</i> , 2007, 251, 113-122.	6.2	93
125	Complex disorder in $\hat{\Gamma}^2$ -NH ₄ Fe ₂ (PO ₄) ₂ : deciphering from a five-dimensional formalism. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 521-531.	1.8	2
126	Searching for the active sites of Co-H-MFI catalyst for the selective catalytic reduction of NO by methane: A FT-IR in situ and operando study. <i>Applied Catalysis B: Environmental</i> , 2007, 71, 216-222.	20.2	58

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127	Operando FTIR study of NO _x storage over a Pt/K/Mn/Al ₂ O ₃ -CeO ₂ catalyst. Applied Catalysis B: Environmental, 2007, 72, 166-177.	20.2	59
128	Pt and Nb species on various supports: An alternative to current materials for NO _x removal. Catalysis Today, 2007, 119, 78-82.	4.4	9
129	New Types of Nonclassical Iridium Carbonyls Formed in Ir-ZSM-5: A Fourier Transform Infrared Spectroscopy Investigation. Journal of Physical Chemistry B, 2006, 110, 10383-10389.	2.6	39
130	Investigation of Acid Sites in a Zeotypic Giant Pores Chromium(III) Carboxylate. Journal of the American Chemical Society, 2006, 128, 3218-3227.	13.7	343
131	FT-IR operando study on selective catalytic reduction of NO _x species by ammonia: A comparison between zeolitic and GAPON compounds. Catalysis Today, 2006, 113, 87-93.	4.4	5
132	Use of pyridine CH(D) vibrations for the study of Lewis acidity of metal oxides. Applied Catalysis A: General, 2006, 307, 98-107.	4.3	47
133	WGS and reforming properties of NbMCM-41 materials. Catalysis Today, 2006, 114, 281-286.	4.4	11
134	Chromium nitrosyl complexes in Cr-ZSM-5: An FTIR spectroscopic study. Journal of Molecular Catalysis A, 2006, 249, 40-46.	4.8	15
135	The role of MCM-41 composition in the creation of basicity by alkali metal impregnation. Microporous and Mesoporous Materials, 2006, 90, 362-369.	4.4	25
136	Trimethylamine as a Probe Molecule To Differentiate Acid Sites in Y-FAU Zeolite: FTIR Study. Journal of Physical Chemistry B, 2006, 110, 13130-13137.	2.6	23
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