Elena Groppo

List of Publications by Year
in descending order

156 papers	7,283 citations	57631 44 h-index	64668 79 g-index
171 all docs	171 docs citations	171 times ranked	7364 citing authors

#	Article	IF	Citations
1	Flexible ligands in heterogeneous catalysts for olefin polymerization: Insights from spectroscopy. Coordination Chemistry Reviews, 2022, 451, 214258.	9.5	31
2	Gas phasevs.liquid phase: monitoring H₂and CO adsorption phenomena on Pt/Al₂O₃by IR spectroscopy. Catalysis Science and Technology, 2022, 12, 1359-1367.	2.1	5
3	Assessing the functional groups in activated carbons through a multi-technique approach. Catalysis Science and Technology, 2022, 12, 1271-1288.	2.1	7
4	Cr(III) Complexes Bearing a Î²-Ketoimine Ligand for Olefin Polymerization: Are There Differences between Coordinative and Covalent Bonding?. Catalysts, 2022, 12, 119.	1.6	1
5	Characterization of the NiSO4 site on a NiSO4-ReOx/Î³-Al2O3 catalyst for tandem conversion of ethylene to propylene. Applied Catalysis A: General, 2022, 637, 118598.	2.2	1
6	Evidence for H₂-Induced Ductility in a Pt/Al₂O₃ Catalyst. ACS Catalysis, 2022, 12, 5979-5989.	5.5	9
7	Hydrogenation of ethylene over palladium: evolution of the catalyst structure by operando synchrotron-based techniques. Faraday Discussions, 2021, 229, 197-207.	1.6	9
8	NEt₃-Triggered Synthesis of UHMWPE Using Chromium Complexes Bearing Non-innocent Iminopyridine Ligands. Macromolecules, 2021, 54, 1243-1253.	2.2	10
9	Cr[CH(SiMe3)2]3/SiO2 catalysts for ethene polymerization: The correlation at a molecular level between the chromium loading and the microstructure of the produced polymer. Journal of Catalysis, 2021, 394, 131-141.	3.1	6
10	Electronic Properties of Ti Sites in Zieglerâ€“Natta Catalysts. ACS Catalysis, 2021, 11, 9949-9961.	5.5	32
11	Correlating the Morphological Evolution of Individual Catalyst Particles to the Kinetic Behavior of Metallocene-Based Ethylene Polymerization Catalysts. Jacs Au, 2021, 1, 1996-2008.	3.6	15
12	Formation of Highly Active Zieglerâ€“Natta Catalysts Clarified by a Multifaceted Characterization Approach. ACS Catalysis, 2021, 11, 13782-13796.	5.5	23
13	Deactivation of Industrial Pd/Al₂O₃ Catalysts by Ethanol: A Spectroscopic Study. ChemCatChem, 2021, 13, 900-908.	1.8	5
14	Time-dependent carbide phase formation in palladium nanoparticles. Radiation Physics and Chemistry, 2020, 175, 108079.	1.4	17
15	Structural Disorder of Mechanically Activated Î´-MgCl2 Studied by Synchrotron X-ray Total Scattering and Vibrational Spectroscopy. Catalysts, 2020, 10, 1089.	1.6	14
16	Inelastic Neutron Scattering Investigation of MgCl₂ Nanoparticle-Based Zieglerâ€“Natta Catalysts for Olefin Polymerization. ACS Applied Nano Materials, 2020, 3, 11118-11128.	2.4	5
17	How do the graphenic domains terminate in activated carbons and carbon-supported metal catalysts?. Carbon, 2020, 169, 357-369.	5.4	9
18	Disclosing the Interaction between Carbon Monoxide and Alkylated Ti³⁺ Species: a Direct Insight into Zieglerâ€“Natta Catalysis. Journal of Physical Chemistry Letters, 2020, 11, 5632-5637.	2.1	17

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19	Titanium Defective Sites in TSâ€1: Structural Insights by Combining Spectroscopy and Simulation. Angewandte Chemie, 2020, 132, 18302-18307.	1.6	0
20	Titanium Defective Sites in TSâ€1: Structural Insights by Combining Spectroscopy and Simulation. Angewandte Chemie - International Edition, 2020, 59, 18145-18150.	7.2	22
21	Rationalizing the Effect of Triethylaluminum on the Cr/SiO₂Phillips Catalysts. ACS Catalysis, 2020, 10, 2694-2706.	5.5	15
22	Revisiting the identity of Î´-MgCl2: Part II. Morphology and exposed surfaces studied by vibrational spectroscopies and DFT calculation. Journal of Catalysis, 2020, 387, 1-11.	3.1	25
23	Revisiting the identity of Î´-MgCl2: Part I. Structural disorder studied by synchrotron X-ray total scattering. Journal of Catalysis, 2020, 385, 76-86.	3.1	51
24	Operando X-ray absorption spectra and mass spectrometry data during hydrogenation of ethylene over palladium nanoparticles. Data in Brief, 2019, 24, 103954.	0.5	8
25	Dynamics of Reactive Species and Reactant-Induced Reconstruction of Pt Clusters in Pt/Al₂O₃Catalysts. ACS Catalysis, 2019, 9, 7124-7136.	5.5	31
26	Exploring the benefits beyond the pre-reduction in methane of the Cr/SiO2 Phillips catalyst: The molecular structure of the Cr sites and their role in the catalytic performance. Journal of Catalysis, 2019, 373, 173-179.	3.1	6
27	The role of palladium carbides in the catalytic hydrogenation of ethylene over supported palladium nanoparticles. Catalysis Today, 2019, 336, 40-44.	2.2	29
28	Quantitative structural determination of active sites from in situ and operando XANES spectra: From standard ab initio simulations to chemometric and machine learning approaches. Catalysis Today, 2019, 336, 3-21.	2.2	70
29	Photoinduced Ethylene Polymerization on the Cr^{VI}/SiO₂ Phillips Catalyst. Journal of Physical Chemistry C, 2019, 123, 8145-8152.	1.5	16
30	Spectroscopic Evidences for TiCl₄/Donor Complexes on the Surface of MgCl₂-Supported Zieglerâ€“Natta Catalysts. Journal of Physical Chemistry C, 2018, 122, 5615-5626.	1.5	33
31	Palladium Carbide and Hydride Formation in the Bulk and at the Surface of Palladium Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 12029-12037.	1.5	61
32	Time-resolved operando studies of carbon supported Pd nanoparticles under hydrogenation reactions by X-ray diffraction and absorption. Faraday Discussions, 2018, 208, 187-205.	1.6	47
33	Looking for the active hydrogen species in a 5Âwt% Pt/C catalyst: a challenge for inelastic neutron scattering. Faraday Discussions, 2018, 208, 227-242.	1.6	20
34	Tracking the reasons for the peculiarity of Cr/Al2O3 catalyst in ethylene polymerization. Journal of Catalysis, 2018, 357, 206-212.	3.1	15
35	Concerted Electron Transfer in Iminopyridine Chromium Complexes: Ligand Effects on the Polymerization of Various (Di)olefins. Organometallics, 2018, 37, 4827-4840.	1.1	10
36	The Active Sites in the Phillips Catalysts: Origins of a Lively Debate and a Vision for the Future. ACS Catalysis, 2018, 8, 10846-10863.	5.5	45

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37	The Effect of Al-Alkyls on the Phillips Catalyst for Ethylene Polymerization: The Case of Diethylaluminum Ethoxide (DEALE). Topics in Catalysis, 2018, 61, 1465-1473.	1.3	9
38	Understanding and Design Catalysts from Molecular to Material Scale: One of the Five Grand-Challenges for Catalysis at the 13th European Congress on Catalysis. Topics in Catalysis, 2018, 61, 1383-1384.	1.3	0
39	Genesis of MgCl₂â€based Zieglerâ€Natta Catalysts as Probed with Operando Spectroscopy. ChemPhysChem, 2018, 19, 2662-2671.	1.0	16
40	In Situ X- and Q-Band EPR Investigation of Ethylene Polymerization on Cr/SiO₂ Phillips Catalyst. Journal of Physical Chemistry C, 2018, 122, 21531-21536.	1.5	17
41	Dynamic Behavior of Pd/P4VP Catalyst during the Aerobic Oxidation of 2-Propanol: A Simultaneous SAXS/XAS/MS Operando Study. ACS Catalysis, 2018, 8, 6870-6881.	5.5	13
42	CHAPTER 4. Raman, IR and INS Characterization of Functionalized Carbon Materials. RSC Catalysis Series, 2018, , 103-137.	0.1	10
43	In situ formation of hydrides and carbides in palladium catalyst: When XANES is better than EXAFS and XRD. Catalysis Today, 2017, 283, 119-126.	2.2	103
44	The Influence of Alcohols in Driving the Morphology of Magnesium Chloride Nanocrystals. ChemCatChem, 2017, 9, 1782-1787.	1.8	24
45	Coreâ€“Shell Structure of Palladium Hydride Nanoparticles Revealed by Combined X-ray Absorption Spectroscopy and X-ray Diffraction. Journal of Physical Chemistry C, 2017, 121, 18202-18213.	1.5	67
46	Spectroscopic Methods in Catalysis and Their Application in Well-Defined Nanocatalysts. Studies in Surface Science and Catalysis, 2017, , 221-284.	1.5	3
47	Tuning the Ti³⁺ and Al³⁺ Synergy in an Al₂O₃/TiCl_x Catalyst To Modulate the Grade of the Produced Polyethylene. ACS Catalysis, 2017, 7, 4915-4921.	5.5	17
48	Heterogeneous, homogeneous, and enzymatic catalysis: three branches of the same scientific chapter. Introductory remarks to the â€œConcepts in catalysisâ€•issue. Rendiconti Lincei, 2017, 28, 1-4.	1.0	6
49	Insights into Cr/SiO₂ catalysts during dehydrogenation of propane: an operando XAS investigation. Catalysis Science and Technology, 2017, 7, 1690-1700.	2.1	28
50	Photoinduced Ethylene Polymerization on Titania Nanoparticles. ChemCatChem, 2017, 9, 4324-4327.	1.8	6
51	In Situ Investigation of the Deactivation Mechanism in Ni-ZSM5 During Ethylene Oligomerization. Topics in Catalysis, 2017, 60, 1664-1672.	1.3	10
52	Ligands Make the Difference! Molecular Insights into Cr^{VI}/SiO₂ Phillips Catalyst during Ethylene Polymerization. Journal of the American Chemical Society, 2017, 139, 17064-17073.	6.6	45
53	The effect of surface chemistry on the performances of Pd-based catalysts supported on activated carbons. Catalysis Science and Technology, 2017, 7, 4162-4172.	2.1	21
54	The Importance of Interactions at the Molecular Level: A Spectroscopic Study of a New Composite Sorber Material. Applied Spectroscopy, 2017, 71, 2278-2285.	1.2	1

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55	Formation and growth of palladium nanoparticles inside porous poly(4-vinyl-pyridine) monitored by operando techniques: The role of different reducing agents. Catalysis Today, 2017, 283, 144-150.	2.2	8
56	Graphitization of Activated Carbons: A Molecular-level Investigation by INS, DRIFT, XRD and Raman Techniques. Physics Procedia, 2016, 85, 20-26.	1.2	68
57	Pd nanoparticles formation inside porous polymeric scaffolds followed byin situXANES/SAXS. Journal of Physics: Conference Series, 2016, 712, 012039.	0.3	1
58	Reactivity of Hydrosilanes with the CrII/SiO2 Phillips Catalyst: Observation of Intermediates and Properties of the Modified CrII Sites. Topics in Catalysis, 2016, 59, 1732-1739.	1.3	3
59	Incorporation of Ni into HZSM-5 zeolites: Effects of zeolite morphology and incorporation procedure. Microporous and Mesoporous Materials, 2016, 229, 76-82.	2.2	26
60	Toward the Understanding of the Comonomer Effect on Cr^{II}/SiO₂ Phillips Catalyst. ACS Catalysis, 2016, 6, 2918-2922.	5.5	13
61	Unraveling the Catalytic Synergy between Ti³⁺ and Al³⁺ Sites on a Chlorinated Al₂O₃: A Tandem Approach to Branched Polyethylene. Angewandte Chemie, 2016, 128, 11369-11372.	1.6	6
62	Surface Investigation and Morphological Analysis of Structurally Disordered MgCl₂and MgCl₂/TiCl₄Zieglerâ€“Natta Catalysts. ACS Catalysis, 2016, 6, 5786-5796.	5.5	83
63	Unraveling the Catalytic Synergy between Ti³⁺ and Al³⁺ Sites on a Chlorinated Al₂O₃: A Tandem Approach to Branched Polyethylene. Angewandte Chemie - International Edition, 2016, 55, 11203-11206.	7.2	21
64	A comprehensive approach to investigate the structural and surface properties of activated carbons and related Pd-based catalysts. Catalysis Science and Technology, 2016, 6, 4910-4922.	2.1	96
65	Hydride phase formation in carbon supported palladium hydride nanoparticles byin situEXAFS and XRD. Journal of Physics: Conference Series, 2016, 712, 012032.	0.3	30
66	Pre-reduction of the Phillips CrVI/SiO2 catalyst by cyclohexene: A model for the induction period of ethylene polymerization. Journal of Catalysis, 2016, 337, 45-51.	3.1	21
67	Spectroscopic Study on the Surface Properties and Catalytic Performances of Palladium Nanoparticles in Poly(ionic liquid)s. Journal of Physical Chemistry C, 2016, 120, 1683-1692.	1.5	21
68	Towards efficient catalysts for the oxidative dehydrogenation of propane in the presence of CO₂: Cr/SiO₂ systems prepared by direct hydrothermal synthesis. Catalysis Science and Technology, 2016, 6, 840-850.	2.1	32
69	The Pyridyl Functional Groups Guide the Formation of Pd Nanoparticles Inside A Porous Poly(4â€Vinylâ€Pyridine). ChemCatChem, 2015, 7, 2188-2195.	1.8	15
70	Progress in the Characterization of the Surface Species in Activated Carbons by means of INS Spectroscopy Coupled with Detailed DFT Calculations. Advances in Condensed Matter Physics, 2015, 2015, 1-8.	0.4	22
71	Effect of surface hydroxylation on the catalytic activity of a Cr(II)/SiO2 model system of Phillips catalyst. Journal of Catalysis, 2015, 324, 79-87.	3.1	19
72	XAS and XES Techniques Shed Light on the Dark Side of Zieglerâ€“Natta Catalysts: Activeâ€Site Generation. ChemCatChem, 2015, 7, 1432-1437.	1.8	31

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73	Design of high surface area poly(ionic liquid)s to convert carbon dioxide into ethylene carbonate. Journal of Materials Chemistry A, 2015, 3, 8508-8518.	5.2	58
74	Activation and In Situ Ethylene Polymerization on Silica-Supported Zieglerâ€“Natta Catalysts. ACS Catalysis, 2015, 5, 5586-5595.	5.5	33
75	Catalyst Characterization by XAS and XES Spectroscopies: In Situ and Operando Experiments. , 2015, , 717-736.		5
76	Effect of Different Face Centered Cubic Nanoparticle Distributions on Particle Size and Surface Area Determination: A Theoretical Study. Journal of Physical Chemistry C, 2014, 118, 4085-4094.	1.5	45
77	Effect of Pre-Reduction on the Properties and the Catalytic Activity of Pd/Carbon Catalysts: A Comparison with Pd/Al₂O₃. ACS Catalysis, 2014, 4, 187-194.	5.5	62
78	Defect Sites in H₂-Reduced TiO₂ Convert Ethylene to High Density Polyethylene without Activator. ACS Catalysis, 2014, 4, 986-989.	5.5	36
79	Fast carbon dioxide recycling by reaction with Î³-Mg(BH₄)₂. Physical Chemistry Chemical Physics, 2014, 16, 22482-22486.	1.3	26
80	Formation and Growth of Pd Nanoparticles Inside a Highly Cross-Linked Polystyrene Support: Role of the Reducing Agent. Journal of Physical Chemistry C, 2014, 118, 8406-8415.	1.5	37
81	Position and flux stabilization of X-ray beams produced by double-crystal monochromators for EXAFS scans at the titaniumK-edge. Journal of Synchrotron Radiation, 2014, 21, 401-408.	1.0	8
82	Cr-doped porous silica glass as a model material to describe Phillips catalyst properties. Journal of Catalysis, 2013, 308, 319-327.	3.1	13
83	Preference towards Fiveâ€Coordination in Ti Silicaliteâ€1 upon Molecular Adsorption. ChemPhysChem, 2013, 14, 79-83.	1.0	53
84	The potential of spectroscopic methods applied to heterogeneous catalysts for olefinpolymerization. Catalysis Science and Technology, 2013, 3, 858-878.	2.1	81
85	Reactivity of Surface Species in Heterogeneous Catalysts Probed by In Situ X-ray Absorption Techniques. Chemical Reviews, 2013, 113, 1736-1850.	23.0	553
86	Carbon dioxide and nitrogen adsorption on porous copolymers of divinylbenzene and acrylic acid. Adsorption, 2013, 19, 367-372.	1.4	2
87	Silica-supported Ti chloride tetrahydrofuranates, precursors of Zieglerâ€“Natta catalysts. Dalton Transactions, 2013, 42, 12706.	1.6	33
88	The Effect of Hydrosilanes on the Active Sites of the Phillips Catalyst: The Secret for In Situ Î±â€Olefin Generation. Chemistry - A European Journal, 2013, 19, 17277-17282.	1.7	23
89	Low temperature activation and reactivity of CO2 over a CrII-based heterogeneous catalyst: a spectroscopic study. Physical Chemistry Chemical Physics, 2012, 14, 6538.	1.3	5
90	Ethylene polymerization on a SiH4-modified Phillips catalyst: detection of in situ produced Î±-olefins by operando FT-IR spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 2239.	1.3	27

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91	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.	3.1	135
92	Insights into Adsorption of NH₃ on HKUST-1 Metalâ€“Organic Framework: A Multitechnique Approach. Journal of Physical Chemistry C, 2012, 116, 19839-19850.	1.5	176
93	Surface chromium single sites: open problems and recent advances. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2087-2098.	1.0	31
94	Effect of reduction in liquid phase on the properties and the catalytic activity of Pd/Al2O3 catalysts. Journal of Catalysis, 2012, 287, 44-54.	3.1	62
95	Crystal Engineering of Metal-Organic Frameworks for Heterogeneous Catalysis. , 2011, , 271-298.		6
96	Iodide substitution in lithium borohydride, LiBH4â€“LiI. Journal of Alloys and Compounds, 2011, 509, 8299-8305.	2.8	80
97	Model oxide supported MoS2 HDS catalysts: structure and surface properties. Catalysis Science and Technology, 2011, 1, 123.	2.1	81
98	Capsules and Cavitands: Synthetic Catalysts of Nanometric Dimension. , 2011, , 105-168.		18
99	When Does Catalysis with Transition Metal Complexes Turn into Catalysis by Nanoparticles?. , 2011, , 73-103.		14
100	0.5wt.% Pd/C catalyst for purification of terephthalic acid: Irreversible deactivation in industrial plants. Journal of Catalysis, 2011, 280, 150-160.	3.1	57
101	Selective Phenylacetylene Hydrogenation on a Polymerâ€Supported Palladium Catalyst Monitored by FTIR Spectroscopy. ChemCatChem, 2011, 3, 222-226.	1.8	31
102	Spectroscopic Investigation of Heterogeneous Zieglerâ€“Natta Catalysts: Ti and Mg Chloride Tetrahydrofuranates, Their Interaction Compound, and the Role of the Activator. Chemistry - A European Journal, 2011, 17, 8648-8656.	1.7	48
103	Enhancing the Initial Rate of Polymerisation of the Reduced Phillips Catalyst by One Order of Magnitude. Chemistry - A European Journal, 2011, 17, 11110-11114.	1.7	40
104	Dehydrogenation reactions of 2NaBH4Â+ÂMgH2 system. International Journal of Hydrogen Energy, 2011, 36, 7891-7896.	3.8	38
105	Highly Unsaturated Cr^{II}/SiO₂ Singleâ€Site Catalysts for Reducing Nitrogen Oxides with CO: Reaction Intermediates and Catalytic Cycle. ChemCatChem, 2010, 2, 259-262.	1.8	12
106	Pd supported catalysts: Evolution of the support during Pd deposition and K doping. Studies in Surface Science and Catalysis, 2010, , 433-436.	1.5	0
107	Functionalization of UiO-66 Metalâ”Organic Framework and Highly Cross-Linked Polystyrene with Cr(CO)₃: In Situ Formation, Stability, and Photoreactivity. Chemistry of Materials, 2010, 22, 4602-4611.	3.2	120
108	Preparation of Supported Pd Catalysts: From the Pd Precursor Solution to the Deposited Pd2+ Phase. Langmuir, 2010, 26, 11204-11211.	1.6	61

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109	Investigation of carbon and alumina supported Pd catalysts during catalyst preparation. Studies in Surface Science and Catalysis, 2010, , 437-440.	1.5	2
110	Probing the surfaces of heterogeneous catalysts by in situ IR spectroscopy. Chemical Society Reviews, 2010, 39, 4951.	18.7	407
111	Subnanometric Pd Particles Stabilized Inside Highly Cross-Linked Polymeric Supports. Chemistry of Materials, 2010, 22, 2297-2308.	3.2	40
112	A Multitechnique Approach to Spin-Flips for Cp2Cr(II) Chemistry in Confined State. Journal of Physical Chemistry C, 2010, 114, 4451-4458.	1.5	32
113	Direct evidence of adsorption induced CrII mobility on the SiO₂surface upon complexation by CO. Chemical Communications, 2010, 46, 976-978.	2.2	59
114	Influence of K-doping on a Pd/SiO2â€“Al2O3 catalyst. Journal of Catalysis, 2009, 267, 40-49.	3.1	44
115	Pd-Supported Catalysts: Evolution of Support Porous Texture along Pd Deposition and Alkali-Metal Doping. Langmuir, 2009, 25, 6476-6485.	1.6	34
116	Stability and Reactivity of Grafted Cr(CO)3Species on MOF Linkers: A Computational Study. Inorganic Chemistry, 2009, 48, 5439-5448.	1.9	26
117	Structure and Enhanced Reactivity of Chromocene Carbonyl Confined inside Cavities of NaY Zeolite. Journal of Physical Chemistry C, 2009, 113, 7305-7315.	1.5	29
118	Determination of the Particle Size, Available Surface Area, and Nature of Exposed Sites for Silicaâ^'Alumina-Supported Pd Nanoparticles: A Multitechnical Approach. Journal of Physical Chemistry C, 2009, 113, 10485-10492.	1.5	124
119	From Isolated Ag⁺Ions to Aggregated Ag⁰Nanoclusters in Silver-Exchanged Engelhard Titanosilicate (ETS-10) Molecular Sieve: Reversible Behavior. Chemistry of Materials, 2009, 21, 1343-1353.	3.2	43
120	Modeling CO and N₂Adsorption at Cr Surface Species of Phillips Catalyst by Hybrid Density Functionals: Effect of Hartreeâ^'Fock Exchange Percentage. Journal of Physical Chemistry A, 2009, 113, 14261-14269.	1.1	21
121	CO Adsorption on CPO-27-Ni Coordination Polymer: Spectroscopic Features and Interaction Energy. Journal of Physical Chemistry C, 2009, 113, 3292-3299.	1.5	121
122	Response of CPO-27-Ni towards CO, N2 and C2H4. Physical Chemistry Chemical Physics, 2009, 11, 9811.	1.3	87
123	Spectroscopic investigation of the encapsulation and the reactivity towards NO of a Co(ii)-porphyrin inside a cross-linked polymeric matrix. Physical Chemistry Chemical Physics, 2009, 11, 4060.	1.3	1
124	Chromocene in porous polystyrene: an example of organometallic chemistry in confined spaces. Physical Chemistry Chemical Physics, 2009, 11, 2218.	1.3	17
125	Formation and reactivity of Cr^{II}carbonyls hosted in polar and non polar supports. Journal of Physics: Conference Series, 2009, 190, 012140.	0.3	1
126	Structure and Redox Activity of Copper Sites Isolated in a Nanoporous P4VP Polymeric Matrix. Angewandte Chemie - International Edition, 2008, 47, 9269-9273.	7.2	18

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127	Local Structure of CPO-27-Ni Metallorganic Framework upon Dehydration and Coordination of NO. Chemistry of Materials, 2008, 20, 4957-4968.	3.2	195
128	Adsorption properties and structure of CO2 adsorbed on open coordination sites of metalâ€“organic framework Ni2(dhtp) from gas adsorption, IR spectroscopy and X-ray diffraction. Chemical Communications, 2008, , 5125.	2.2	348
129	Exploring the Chemistry of Electron-Accepting Molecules in the Cavities of the Basic Microporous P4VP Polymer by in situ FTIR Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 19493-19500.	1.5	30
130	Infrared Spectroscopy of Transient Surface Species. Advances in Catalysis, 2007, 51, 1-74.	0.1	48
131	Adsorption properties of HKUST-1 toward hydrogen and other small molecules monitored by IR. Physical Chemistry Chemical Physics, 2007, 9, 2676.	1.3	358
132	Reactivity of Cr Species Grafted on SiO₂/Si(100) Surface:â€‰ A Reflection Extended X-ray Absorption Fine Structure Study down to the Submonolayer Regime. Journal of Physical Chemistry C, 2007, 111, 16437-16444.	1.5	27
133	Role of the Support in Determining the Vibrational Properties of Carbonyls Formed on Pd Supported on SiO2â"Al2O3, Al2O3, and MgO. Journal of Physical Chemistry C, 2007, 111, 7021-7028.	1.5	54
134	Selective Catalysis and Nanoscience: An Inseparable Pair. Chemistry - A European Journal, 2007, 13, 2440-2460.	1.7	94
135	Dichloromethane as a Selective Modifying Agent To Create a Family of Highly Reactive Chromium Polymerization Sites. Angewandte Chemie - International Edition, 2007, 46, 1465-1468.	7.2	26
136	Ethylene, propylene and ethylene oxide in situ polymerization on the Cr(II)/SiO2 system: A temperature- and pressure-dependent investigation. Catalysis Today, 2007, 126, 228-234.	2.2	29
137	Direct IR observation of vibrational properties of carbonyl species formed on Pd nano-particles supported on amorphous carbon: comparison with Pd/SiO2â€"Al2O3. Physical Chemistry Chemical Physics, 2006, 8, 3676-3681.	1.3	28
138	On the fraction of CrII sites involved in the C2H4 polymerization on the Cr/SiO2 Phillips catalyst: a quantification by FTIR spectroscopy. Physical Chemistry Chemical Physics, 2006, 8, 2453.	1.3	36
139	New frontier in transmission IR spectroscopy of molecules adsorbed on high surface area solids: Experiments below liquid nitrogen temperature. Catalysis Today, 2006, 113, 65-80.	2.2	36
140	In situ FTIR spectroscopy of key intermediates in the first stages of ethylene polymerization on the Cr/SiO2 Phillips catalyst: Solving the puzzle of the initiation mechanism?. Journal of Catalysis, 2006, 240, 172-181.	3.1	84
141	Vibrational Properties of CrIICenters on Reduced Phillips Catalysts Highlighted by Resonant Raman Spectroscopy. ChemPhysChem, 2006, 7, 342-344.	1.0	38
142	Polyethylene Microtubes from Silica Fiber-based Polyethylene Composites Synthesized by an Inâ€‰Situ Catalytic Method. Advanced Materials, 2006, 18, 3111-3114.	11.1	10
143	Preparation of Pd/C catalysts: from the Pd-precursor solution to the final systems. Studies in Surface Science and Catalysis, 2006, 162, 721-728.	1.5	7
144	In situ, Cr K-edge XAS study on the Phillips catalyst: activation and ethylene polymerization. Journal of Catalysis, 2005, 230, 98-108.	3.1	102

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145	Tuning the structure, distribution and reactivity of polymerization centres of Cr(II)/SiO2 Phillips catalyst by controlled annealing. Journal of Catalysis, 2005, 236, 233-244.	3.1	50
146	FTIR Investigation of the H2, N2, and C2H4Molecular Complexes Formed on the Cr(II) Sites in the Phillips Catalyst:Â a Preliminary Step in the understanding of a Complex System. Journal of Physical Chemistry B, 2005, 109, 15024-15031.	1.2	50
147	The Structure of Active Centers and the Ethylene Polymerization Mechanism on the Cr/SiO2 Catalyst:â€‰ A Frontier for the Characterization Methods. Chemical Reviews, 2005, 105, 115-184.	23.0	396
148	New Strategies in the Raman Study of the Cr/SiO2Phillips Catalyst:Â Observation of Molecular Adducts on Cr(II) Sites. Chemistry of Materials, 2005, 17, 2019-2027.	3.2	63
149	NiO and MgO ultrathin films by polarization dependent XAS. Surface Science, 2004, 566-568, 84-88.	0.8	20
150	X-ray absorption study at the Mg and O K edges of ultrathin MgO epilayers on Ag(001). Physical Review B, 2004, 69, .	1.1	77
151	OK-edge x-ray absorption study of ultrathinNiOepilayers depositedin situonAg(001). Physical Review B, 2004, 70, .	1.1	28
152	Ni atomic environment in epitaxial NiO layers on Ag(001). Nuclear Instruments & Methods in Physics Research B, 2003, 200, 371-375.	0.6	15
153	Oxide/Metal Interface Distance and Epitaxial Strain in theNiO/Ag(001)System. Physical Review Letters, 2003, 91, 046101.	2.9	87
154	Growth of NiO on Ag(001):Â Atomic Environment, Strain, and Interface Relaxations Studied by Polarization Dependent Extended X-ray Absorption Fine Structure. Journal of Physical Chemistry B, 2003, 107, 4597-4606.	1.2	54
155	Anatomy of Catalytic Centers in Phillips Ethylene Polymerization Catalyst. , 0, , 1-35.		16
156	5. Structural and electronic characterization of nanosized inorganic materials by X-ray absorption spectroscopies. , 0, , .		0