Angelika Brckner

List of Publications by Citations

245 papers	11,061 citations	54 h-index	97 g-index
259 ext. papers	12,334 ext. citations	7.8 avg, IF	6.29 L-index

#	Paper	IF	Citations
245	Nanoscale Fe2O3-based catalysts for selective hydrogenation of nitroarenes to anilines. *Science*, **2013**, 342, 1073-6	33.3	704
244	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. *Nature Chemistry*, **2013**, 5, 537-43	17.6	513
243	Supported Gold Nanoparticles from Quantum Dot to Mesoscopic Size Scale: Effect of Electronic and Structural Properties on Catalytic Hydrogenation of Conjugated Functional Groups. *Journal of the American Chemical Society*, **2000**, 122, 11430-11439	16.4	350
242	On the nature of different iron sites and their catalytic role in Fe-ZSM-5 DeNOx catalysts: new insights by a combined EPR and UV/VIS spectroscopic approach. *Journal of Catalysis*, **2004**, 227, 384-397	7.3	334
241	Selective oxidation of alcohols to esters using heterogeneous Co3O4-N@C catalysts under mild conditions. *Journal of the American Chemical Society*, **2013**, 135, 10776-82	16.4	286
240	Tuning catalytic activity between homogeneous and heterogeneous catalysis: improved activity and selectivity of free nano-Fe2O3 in selective oxidations. *Angewandte Chemie - International Edition*, **2007**, 46, 8866-8	16.4	284
239	Supported gold nanoparticles: in-depth catalyst characterization and application in hydrogenation and oxidation reactions. *Catalysis Today*, **2002**, 72, 63-78	5.3	278
238	Selective reduction of NO with Fe-ZSM-5 catalysts of low Fe contentI. Relations between active site structure and catalytic performance. *Journal of Catalysis*, **2005**, 231, 314-330	7.3	258
237	Evolution of isomorphously substituted iron zeolites during activation: comparison of Fe-beta and Fe-ZSM-5. *Journal of Catalysis*, **2005**, 232, 318-334	7.3	220
236	A new view on the relations between tungsten and vanadium in V2O5WO3/TiO2 catalysts for the selective reduction of NO with NH3. *Journal of Catalysis*, **2012**, 286, 237-247	7.3	216
235	Green and efficient synthesis of sulfonamides catalyzed by nano-Ru/Fe(3)O(4). *Journal of the American Chemical Society*, **2009**, 131, 1775-9	16.4	215
234	Structure and Catalytic Properties of VOx/MCM Materials for the Partial Oxidation of Methane to Formaldehyde. *Journal of Catalysis*, **2000**, 191, 384-400	7.3	199
233	Reduction of N2O with CO over FeMFI zeolites: influence of the preparation method on the iron species and catalytic behavior. *Journal of Catalysis*, **2004**, 223, 13-27	7.3	191
232	Water reduction with visible light: synergy between optical transitions and electron transfer in Au-TiO(2) catalysts visualized by in situ EPR spectroscopy. *Angewandte Chemie - International Edition*, **2013**, 52, 11420-4	16.4	185
231	Selective reduction of NO with Fe-ZSM-5 catalysts of low Fe content: Part II. Assessing the function of different Fe sites by spectroscopic in situ studies. *Journal of Catalysis*, **2006**, 239, 173-186	7.3	170
230	Solar Hydrogen Production by Plasmonic Au□TiO2 Catalysts: Impact of Synthesis Protocol and TiO2 Phase on Charge Transfer Efficiency and H2 Evolution Rates. *ACS Catalysis*, **2015**, 5, 2137-2148	13.1	166
229	The role of NO2 in the selective catalytic reduction of nitrogen oxides over Fe-ZSM-5 catalysts: Active sites for the conversion of NO and of NO/NO2 mixtures. *Journal of Catalysis*, **2008**, 259, 96-103	7.3	134

228	Convenient and mild epoxidation of alkenes using heterogeneous cobalt oxide catalysts. *Angewandte Chemie - International Edition*, **2014**, 53, 4359-63	16.4	122
227	Biomimetic iron-catalyzed asymmetric epoxidation of aromatic alkenes by using hydrogen peroxide. *Chemistry - A European Journal*, **2008**, 14, 7687-98	4.8	119
226	Nickel as a co-catalyst for photocatalytic hydrogen evolution on graphitic-carbon nitride (sg-CN): what is the nature of the active species?. *Chemical Communications*, **2016**, 52, 104-7	5.8	118
225	Efficient VOx/Ce1−xTixO2 Catalysts for Low-Temperature NH3-SCR: Reaction Mechanism and Active Sites Assessed by in Situ/Operando Spectroscopy. *ACS Catalysis*, **2017**, 7, 1693-1705	13.1	118
224	Structural Properties of Ag/TiO2 Catalysts for Acrolein Hydrogenation. *Journal of Physical Chemistry B*, **2004**, 108, 5709-5717	3.4	118
223	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. *Green Chemistry*, **2015**, 17, 898-902	10	109
222	The effect of calcination temperature on structure and photocatalytic properties of Au/Pd nanoparticles supported on TiO2. *Applied Catalysis B: Environmental*, **2014**, 152-153, 202-211	21.8	104
221	Nano-iron oxide-catalyzed selective oxidations of alcohols and olefins with hydrogen peroxide. *Journal of Molecular Catalysis A*, **2008**, 292, 28-35		103
220	Fast Electron Transfer and •OH Formation: Key Features for High Activity in Visible-Light-Driven Ozonation with C3N4 Catalysts. *ACS Catalysis*, **2017**, 7, 6198-6206	13.1	101
219	Photocatalytic hydrogen generation from water with iron carbonyl phosphine complexes: improved water reduction catalysts and mechanistic insights. *Chemistry - A European Journal*, **2011**, 17, 6425-36	4.8	98
218	Looking on Heterogeneous Catalytic Systems from Different Perspectives: Multitechnique Approaches as a New Challenge for In Situ Studies. *Catalysis Reviews - Science and Engineering*, **2003**, 45, 97-150	12.6	97
217	Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. *Nature Protocols*, **2015**, 10, 916-26	18.8	96
216	Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF3 Br. *Angewandte Chemie - International Edition*, **2016**, 55, 2782-6	16.4	95
215	Selective catalytic monoreduction of phthalimides and imidazolidine-2,4-diones. *Angewandte Chemie - International Edition*, **2011**, 50, 9180-4	16.4	94
214	Fundamental and combinatorial approaches in the search for and optimisation of catalytic materials for the oxidative dehydrogenation of propane to propene. *Catalysis Today*, **2001**, 67, 369-378	5.3	91
213	Synthesis of Single Atom Based Heterogeneous Platinum Catalysts: High Selectivity and Activity for Hydrosilylation Reactions. *ACS Central Science*, **2017**, 3, 580-585	16.8	90
212	Identifying active sites for fast NH3-SCR of NO/NO2 mixtures over Fe-ZSM-5 by operando EPR and UV−vis spectroscopy. *Journal of Catalysis*, **2014**, 316, 103-111	7.3	88
211	Selective reduction of amides to amines by boronic acid catalyzed hydrosilylation. *Angewandte Chemie - International Edition*, **2013**, 52, 11577-80	16.4	86

210	Engineering titania nanostructure to tune and improve its photocatalytic activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3966-71	11.5	86
209	In situ electron paramagnetic resonance: a unique tool for analyzing structure-reactivity relationships in heterogeneous catalysis. *Chemical Society Reviews*, **2010**, 39, 4673-84	58.5	85
208	Structure–Activity Relationships in Bulk Polymeric and Sol–Gel-Derived Carbon Nitrides during Photocatalytic Hydrogen Production. *Chemistry of Materials*, **2014**, 26, 1727-1733	9.6	84
207	The role of Brønsted acidity in the SCR of NO over Fe-MFI catalysts. *Microporous and Mesoporous Materials*, **2008**, 111, 124-133	5.3	82
206	NOx adsorption on MnO2/NaY composite: an in situ FTIR and EPR study. *Applied Catalysis B: Environmental*, **2001**, 32, 229-241	21.8	75
205	Donor-acceptor covalent organic frameworks for visible light induced free radical polymerization. *Chemical Science*, **2019**, 10, 8316-8322	9.4	72
204	Death and Rebirth: Photocatalytic Hydrogen Production by a Self-Organizing Copper–Iron System. *ACS Catalysis*, **2014**, 4, 1845-1849	13.1	71
203	Evidence of the vital role of the pore network on various catalytic conversions of N2O over Fe-silicalite and Fe-SBA-15 with the same iron constitution. *Applied Catalysis B: Environmental*, **2006**, 62, 244-254	21.8	71
202	Ru-catalyzed oxidation of primary alcohols. *Journal of Molecular Catalysis A*, **2006**, 246, 85-99		70
201	Temperature-dependent N2O decomposition over Fe-ZSM-5: Identification of sites with different activity. *Journal of Catalysis*, **2007**, 249, 67-78	7.3	67
200	Heterogeneous platinum-catalyzed C-H perfluoroalkylation of arenes and heteroarenes. *Angewandte Chemie - International Edition*, **2015**, 54, 4320-4	16.4	66
199	Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. *Angewandte Chemie - International Edition*, **2020**, 59, 15849-15854	16.4	65
198	Formation, Operation and Deactivation of Cr Catalysts in Ethylene Tetramerization Directly Assessed by Operando EPR and XAS. *ACS Catalysis*, **2013**, 3, 95-102	13.1	61
197	Monitoring Structure and Valence State of Chromium Sites during Catalyst Formation and Ethylene Oligomerization by in Situ EPR Spectroscopy. *Organometallics*, **2008**, 27, 3849-3856	3.8	60
196	Structural evolution of H4PVMo11O40?xH2O during calcination and isobutane oxidation: New insights into vanadium sites by a comprehensive in situ approach. *Journal of Catalysis*, **2007**, 245, 369-380	7.3	58
195	The Structure of Active Sites in Me–V–O Catalysts (Me = Mg, Zn, Pb) and Its Influence on the Catalytic Performance in the Oxidative Dehydrogenation (ODH) of Propane. *Journal of Catalysis*, **2001**, 202, 45-58	7.3	57
194	Selective Alcohol Oxidation by a Copper TEMPO Catalyst: Mechanistic Insights by Simultaneously Coupled Operando EPR/UV-Vis/ATR-IR Spectroscopy. *Angewandte Chemie - International Edition*, **2015**, 54, 11791-4	16.4	55
193	The dynamic nature of Cu sites in Cu-SSZ-13 and the origin of the seagull NOx conversion profile during NH3-SCR. *Reaction Chemistry and Engineering*, **2019**, 4, 1000-1018	4.9	54

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190	Active sites for NO reduction over Fe-ZSM-5 catalysts. *Chemical Communications*, **2005**, 805-7	5.8	53
189	How Temperature Affects the Mechanism of CO Oxidation on Au/TiO2: A Combined EPR and TAP Reactor Study of the Reactive Removal of TiO2 Surface Lattice Oxygen in Au/TiO2 by CO. *ACS Catalysis*, **2016**, 6, 5005-5011	13.1	53
188	E.p.r. study on the incorporation of Fe(III) ions in ZSM-5 zelites in dependence on the preparation conditions. *Zeolites*, **1992**, 12, 380-385		52
187	Cyclic Group 15 Radical Cations. *Angewandte Chemie - International Edition*, **2015**, 54, 7426-30	16.4	51
186	V2O5-WO3/TiO2 catalysts under thermal stress: Responses of structure and catalytic behavior in the selective catalytic reduction of NO by NH3. *Applied Catalysis B: Environmental*, **2017**, 217, 365-377	21.8	48
185	The role of ozone and influence of band structure in WO photocatalysis and ozone integrated process for pharmaceutical wastewater treatment. *Journal of Hazardous Materials*, **2018**, 360, 481-489	12.8	48
184	Synthesis and application of carbonated fatty acid esters from carbon dioxide including a life cycle analysis. *ChemSusChem*, **2014**, 7, 1133-9	8.3	47
183	Simultaneous operando EPR/UV□is/laserRaman spectroscopy □A powerful tool for monitoring transition metal oxide catalysts during reaction. *Catalysis Today*, **2006**, 113, 16-24	5.3	47
182	Heterostructured Copper-Ceria and Iron-Ceria Nanorods: Role of Morphology, Redox, and Acid Properties in Catalytic Diesel Soot Combustion. *Langmuir*, **2018**, 34, 2663-2673	4	46
181	Novel biomimetic iron-catalysts for environmentally benign epoxidations of olefins. *Tetrahedron Letters*, **2007**, 48, 6339-6342	2	45
180	Simultaneous combination of in situ-EPR/UV-VIS/on line GC: a novel setup for investigating transition metal oxide catalysts under working conditions. *Chemical Communications*, **2001**, 2122-3	5.8	44
179	Gallic Acid-Promoted SET Process for Cyclobutanone Oximes Activation and (Carbonylative-)Alkylation of Olefins. *ACS Catalysis*, **2018**, 8, 10926-10930	13.1	44
178	Selective Catalytic Reduction of NO by NH3over Vanadium-Containing Zeolites. *Journal of Catalysis*, **1998**, 175, 48-61	7.3	43
177	The role of different Ni sites in supported nickel catalysts for butene dimerization under industry-like conditions. *Journal of Catalysis*, **2009**, 266, 120-128	7.3	42
176	The incorporation of iron ions in AlPO4-5 molecular sieves after microwave synthesis studied by EPR and M□sbauer spectroscopy. *Microporous and Mesoporous Materials*, **1998**, 20, 207-215	5.3	41
175	In situ-electron spin resonance: a useful tool for the investigation of vanadium phosphate catalysts (VPO) under working conditions. *Catalysis Today*, **1996**, 32, 215-222	5.3	41

174	Dynamics of redox behavior of nano-sized VOx species over Ti-MCM-41 from time-resolved in situ UV/Vis analysis. *Journal of Catalysis*, **2009**, 265, 8-18	7.3	40
173	Oxidation and selective reduction of NO over Fe-ZSM-5 - How related are these reactions?. *Journal of Catalysis*, **2014**, 311, 199-211	7.3	38
172	Structure-reactivity relationships in VOx/CexZr1-xO2 catalysts used for low-temperature NH3-SCR of NO. *Applied Catalysis B: Environmental*, **2016**, 197, 159-167	21.8	38
171	Spin density distribution after electron transfer from triethylamine to an [Ir(ppy)2(bpy)]+ photosensitizer during photocatalytic water reduction. *Physical Chemistry Chemical Physics*, **2014**, 16, 4789-96	3.6	37
170	Iron site modification upon alkaline treatment of Fe-ZSM-5 zeolites - Opportunities for improved N2O decomposition activity. *Journal of Catalysis*, **2006**, 243, 212-216	7.3	37
169	Visible-Light Photocatalytic Ozonation Using Graphitic CN Catalysts: A Hydroxyl Radical Manufacturer for Wastewater Treatment. *Accounts of Chemical Research*, **2020**, 53, 1024-1033	24.3	36
168	Selective gas-phase oxidation of polycyclic aromatic hydrocarbons on vanadium oxide-based catalysts. *Applied Catalysis A: General*, **1997**, 157, 311-334	5.1	36
167	SCR and NO oxidation over Fe-ZSM-5 - The influence of the Fe content. *Catalysis Today*, **2015**, 258, 337-346	5.3	35
166	Linking Simultaneous In Situ WAXS/SAXS/Raman with Raman/ATR/UV-Vis Spectroscopy: Comprehensive Insight into the Synthesis of Molybdate Catalyst Precursors. *Topics in Catalysis*, **2009**, 52, 1350-1359	2.3	35
165	Reaction Monitoring of Heterogeneously Catalyzed Hydrogenation of Imines by Coupled ATR-FTIR, UV/Vis, and Raman Spectroscopy. *ChemCatChem*, **2010**, 2, 273-280	5.2	35
164	A new approach to study the gas-phase oxidation of toluene: probing active sites in vanadia-based catalysts under working conditions. *Applied Catalysis A: General*, **2000**, 200, 287-297	5.1	35
163	Mechanism of the selective reduction of NOx by methane over Co-ZSM-5. *Applied Catalysis B: Environmental*, **2018**, 230, 184-193	21.8	34
162	Monitoring transition metal ions (TMI) in oxide catalysts during (re)action: the power of operando EPR. *Physical Chemistry Chemical Physics*, **2003**, 5, 4461-4472	3.6	34
161	Microwave synthesis of and MnAPO-5-stability of Mn2+ ions on framework positions. *Microporous Materials*, **1996**, 7, 139-149		34
160	Impact of redox properties on dehydration of glycerol to acrolein over heteropolyacids assessed by operando-EPR spectroscopy. *Applied Catalysis A: General*, **2011**, 391, 102-109	5.1	33
159	Elucidating structure and function of active sites in VOx/TiO2 catalysts during oxyhydrative scission of 1-butene by in situ and operando spectroscopy. *Applied Catalysis A: General*, **2004**, 269, 237-248	5.1	33
158	Investigation of vanadium phosphorus oxide catalysts (VPO) during toluene ammoxidation: new mechanistic insights by in situ EPR. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 4257-4263		33
157	Origins of high catalyst loading in copper(i)-catalysed Ullmann-Goldberg C-N coupling reactions. *Chemical Science*, **2017**, 8, 7203-7210	9.4	32

156	Catalytic performance of vanadyl pyrophosphate in the partial oxidation of toluene to benzaldehyde. *Catalysis Letters*, **1999**, 59, 61-65	2.8	32
155	Bimetallic PdAu□KOac/SiO2 catalysts for vinyl acetate monomer (VAM) synthesis: Insights into deactivation under industrial conditions. *Journal of Catalysis*, **2009**, 262, 314-323	7.3	31
154	Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF3Br. *Angewandte Chemie*, **2016**, 128, 2832-2836	3.6	31
153	Light to Hydrogen: Photocatalytic Hydrogen Generation from Water with Molecularly-Defined Iron Complexes. *Inorganics*, **2017**, 5, 14	2.9	30
152	Tracing Active Sites in Supported Ni Catalysts during Butene Oligomerization by Operando Spectroscopy under Pressure. *ACS Catalysis*, **2016**, 6, 8224-8228	13.1	30
151	Synthesis of Cp*2Ti(OTf) and Its Reaction with Water. *European Journal of Inorganic Chemistry*, **2011**, 2011, 627-631	2.3	30
150	In situ investigation of active sites in zirconia-supported chromium oxide catalysts during the aromatization of n-octane. *Catalysis Letters*, **1999**, 60, 183-189	2.8	29
149	The crystal structure of □VOPO4 and its relationship to □VOPO4. *Solid State Sciences*, **2009**, 11, 1258-1264	3.4	28
148	On the nature and reactivity of active oxygen species formed from O2 and N2O on VOx/MCM-41 used for oxidative dehydrogenation of propane. *Journal of Catalysis*, **2010**, 274, 111-116	7.3	28
147	Redox interaction of ammonia with (VO)2P2O7. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 725-731		28
146	Vinylboron Self-Promoted Carbonylative Coupling with Cyclobutanone Oxime Esters. *Organic Letters*, **2019**, 21, 1766-1769	6.2	27
145	Photoassisted Ti-O activation in a decamethyltitanocene dihydroxido complex: insights into the elemental steps of water splitting. *Angewandte Chemie - International Edition*, **2012**, 51, 6272-5	16.4	27
144	Advanced Charge Utilization from NaTaO3 Photocatalysts by Multilayer Reduced Graphene Oxide. *Chemistry of Materials*, **2014**, 26, 4705-4711	9.6	26
143	Highly dispersed VOx species on mesoporous supports: Promising catalysts for the oxidative dehydrogenation (ODH) of propane. *Studies in Surface Science and Catalysis*, **2002**, 1141-1148	1.8	26
142	Investigation of zeolites by photoelectron and ion scattering spectroscopy Part IV XPS studies of vanadium-modified zeolites. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 2033-2041		26
141	Selective Alcohol Oxidation by a Copper TEMPO Catalyst: Mechanistic Insights by Simultaneously Coupled Operando EPR/UV-Vis/ATR-IR Spectroscopy. *Angewandte Chemie*, **2015**, 127, 11957-11960	3.6	25
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139	In-situ electron spin resonance study of vanadium phosphate catalysts during the selective oxidation of n-butane to maleic anhydride. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1996**, 115, 179-186	5.1	25

138	From sunflower oil toward 1,19-diester: Mechanistic elucidation. *Journal of Catalysis*, **2013**, 297, 44-55	7.3	24
137	H2 Generation with (Mixed) Plasmonic Cu/Au-TiO2 Photocatalysts: Structure–Reactivity Relationships Assessed by in situ Spectroscopy. *ChemCatChem*, **2017**, 9, 1025-1031	5.2	23
136	Catalytic and Mechanistic Investigation of Polyaniline Supported PtO2 Nanoparticles: A Combined in situ/operando EPR, DRIFTS, and EXAFS Study. *Journal of Physical Chemistry C*, **2008**, 112, 19555-19559	3.8	23
135	Synthesis and characterization of VAPSO-44 and VAPSO-5. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 1173-1178		23
134	Wasserreduktion mit sichtbarem Licht: In-situ-EPR-Spektroskopie zeigt die Synergie zwischen optischen Übergängen und Elektronentransfer in Au-TiO2-Katalysatoren. *Angewandte Chemie*, **2013**, 125, 11631-11635	3.6	22
133	Structure of vanadium sites in VPO catalysts and their influence on the catalytic performance in selective O- and N-insertion reactions. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 2221-2225		22
132	Titanocene(III) complexes with 2-phosphinoaryloxide ligands for the catalytic dehydrogenation of dimethylamine borane. *Dalton Transactions*, **2015**, 44, 12103-11	4.3	21
131	Transition metal oxide/carbon composite catalysts for n-alkane aromatization: structure and catalytic properties. *Applied Catalysis A: General*, **2001**, 208, 381-392	5.1	21
130	Practical and General Manganese-Catalyzed Carbonylative Coupling of Alkyl Iodides with Amides. *ChemCatChem*, **2017**, 9, 915-919	5.2	20
129	The Role of NO2 in the Fast NH3-SCR of NOx: A Combined In Situ FTIR and EPR Spectroscopic Study. *Topics in Catalysis*, **2017**, 60, 1641-1652	2.3	20
128	Deactivation of a commercial catalyst in the epoxidation of ethylene to ethylene oxide—Basis for accelerated testing. *Journal of Catalysis*, **2004**, 224, 187-196	7.3	20
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125	Sustainable Co-Synthesis of Glycolic Acid, Formamides and Formates from 1,3-Dihydroxyacetone by a Cu/Al O Catalyst with a Single Active Sites. *Angewandte Chemie - International Edition*, **2019**, 58, 5251-5255	16.4	18
124	Practical Catalytic Cleavage of C(sp)-C(sp) Bonds in Amines. *Angewandte Chemie - International Edition*, **2019**, 58, 10693-10697	16.4	18
123	Metal vanadate catalysts for the ammoxidation of 2-methylpyrazine to 2-cyanopyrazine. *Applied Catalysis A: General*, **2012**, 443-444, 111-118	5.1	18
122	Key properties promoting high activity and stability of supported PdSb/TiO2 catalysts in the acetoxylation of toluene to benzyl acetate. *Applied Catalysis A: General*, **2011**, 398, 104-112	5.1	18
121	Spin–Spin exchange in vanadium-containing catalysts studied by in situ-EPR: a sensitive monitor for disorder-related activity. *Topics in Catalysis*, **2006**, 38, 133-139	2.3	18

120	Effect of support synthesis methods on structure and performance of VOx/CeO2 catalysts in low-temperature NH3-SCR of NO. *Catalysis Communications*, **2016**, 84, 171-174	3.2	17
119	Chapter 1:In situ electron paramagnetic resonance (EPR) a unique tool for analysing structure and reaction behaviour of paramagnetic sites in model and real catalysts. *Catalysis*,1-32	1.6	17
118	Electron Paramagnetic Resonance: A Powerful Tool for Monitoring Working Catalysts. *Advances in Catalysis*, **2007**, 51, 265-308	2.4	17
117	Alkaline treatment of iron-containing MFI zeolites. Influence on mesoporosity development and iron speciation. *Journal of Physical Chemistry B*, **2006**, 110, 20369-78	3.4	17
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115	Permanent blockade of in situ-generated acid Brønsted sites of vanadyl pyrophosphate catalysts by pyridine during the partial oxidation of toluene. *Chemical Communications*, **1999**, 1169-1170	5.8	17
114	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. *Journal of the American Chemical Society*, **2021**, 143, 10059-10064	16.4	17
113	Ni-In Synergy in CO Hydrogenation to Methanol. *ACS Catalysis*, **2021**, 11, 11371-11384	13.1	17
112	Heterogeneous Platinum-Catalyzed C?H Perfluoroalkylation of Arenes and Heteroarenes. *Angewandte Chemie*, **2015**, 127, 4394-4398	3.6	16
111	In situ EPR study of chemical reactions in Q-band at higher temperatures: a challenge for elucidating structure-reactivity relationships in catalysis. *Journal of the American Chemical Society*, **2010**, 132, 9873-80	16.4	16
110	Levitated Droplets as Model System for Spray Drying of Complex Oxides: A Simultaneous in Situ X-ray Diffraction/Raman Study. *Chemistry of Materials*, **2011**, 23, 5425-5431	9.6	16
109	Synthesis and characterization of Fe2O3 containing aluminas by thermal decomposition of modified ammonium dawsonite. *Journal of Materials Chemistry*, **2001**, 11, 2498-2503		16
108	Effects of Imidazole-Type Ligands in Cu/TEMPO-Mediated Aerobic Alcohol Oxidation. *Inorganic Chemistry*, **2017**, 56, 684-691	5.1	15
107	Highly selective visible light-induced Ti-O bond splitting in an ansa-titanocene dihydroxido complex. *Chemical Communications*, **2015**, 51, 3065-8	5.8	15
106	Tailoring the synthesis of supported Pd catalysts towards desired structure and size of metal particles. *Physical Chemistry Chemical Physics*, **2010**, 12, 4833-42	3.6	15
105	Deactivation and oxidative regeneration of VTiSbSiOx catalyst for ammoxidation of 3-picoline to nicotinonitrile. *Applied Catalysis A: General*, **2008**, 335, 196-203	5.1	15
104	Combining accelerated activity tests and catalyst characterization: a time-saving way to study the deactivation of vinylacetate catalysts. *Applied Catalysis A: General*, **2004**, 268, 67-76	5.1	15
103	Selective oxidation of p-substituted toluenes to the corresponding benzaldehydes over (VO)2P2O7: an in situ FTIR and EPR study. *Journal of Molecular Catalysis A*, **2000**, 162, 391-399		15

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101	Number of Reactive Charge Carriers: A Hidden Linker between Band Structure and Catalytic Performance in Photocatalysts. *ACS Catalysis*, **2019**, 9, 8852-8861	13.1	14
100	Hydrogen generation by water reduction with [Cp*(2) Ti(OTf)]: identifying elemental mechanistic steps by combined in situ FTIR and in situ EPR spectroscopy supported by DFT calculations. *Chemistry - A European Journal*, **2013**, 19, 13705-13	4.8	14
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