

# Alfons Baiker

## List of Publications by Citations

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839  
papers

39,936  
citations

93  
h-index

145  
g-index

888  
ext. papers

42,134  
ext. citations

7  
avg, IF

7.63  
L-index

#	Paper	IF	Citations
839	Oxidation of alcohols with molecular oxygen on solid catalysts. <i>Chemical Reviews</i> , <b>2004</b> , 104, 3037-58	68.1	1680
838	A new hydrosol of gold clusters. 1. Formation and particle size variation. <i>Langmuir</i> , <b>1993</b> , 9, 2301-2309	4	669
837	Supercritical Fluids in Heterogeneous Catalysis. <i>Chemical Reviews</i> , <b>1999</b> , 99, 453-474	68.1	632
836	Asymmetric catalysis at chiral metal surfaces. <i>Chemical Reviews</i> , <b>2007</b> , 107, 4863-90	68.1	501
835	NOx storage-reduction catalysis: from mechanism and materials properties to storage-reduction performance. <i>Chemical Reviews</i> , <b>2009</b> , 109, 4054-91	68.1	430
834	Preparation of Supported Gold Catalysts for Low-Temperature CO Oxidation via Size-Controlled Gold Colloids. <i>Journal of Catalysis</i> , <b>1999</b> , 181, 223-232	7.3	363
833	Progress in asymmetric heterogeneous catalysis: Design of novel chirally modified platinum metal catalysts1Communication presented at the First Francqui Colloquium, Brussels, 1990 February 1996.1. <i>Journal of Molecular Catalysis A</i> , <b>1997</b> , 115, 473-493		360
832	Oxidation of alcohols with molecular oxygen on platinum metal catalysts in aqueous solutions. <i>Catalysis Today</i> , <b>1994</b> , 19, 247-283	5.3	360
831	Titania-Silica Mixed Oxides. <i>Journal of Catalysis</i> , <b>1995</b> , 153, 165-176	7.3	316
830	Temperature-programmed reduction. Parametric sensitivity and estimation of kinetic parameters. <i>Journal of Catalysis</i> , <b>1983</b> , 83, 323-335	7.3	316
829	Comparative Study of Au/TiO <sub>2</sub> and Au/ZrO <sub>2</sub> Catalysts for Low-Temperature CO Oxidation. <i>Journal of Catalysis</i> , <b>1999</b> , 186, 458-469	7.3	269
828	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. <i>Organic Process Research and Development</i> , <b>2015</b> , 19, 3-62	3.9	251
827	Flame-made WO <sub>3</sub> /TiO <sub>2</sub> nanoparticles: Relation between surface acidity, structure and photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 79, 53-62	21.8	251
826	Ionic liquids and dense carbon dioxide: a beneficial biphasic system for catalysis. <i>Chemical Reviews</i> , <b>2011</b> , 111, 322-53	68.1	236
825	Gold/Titania Interfaces and Their Role in Carbon Monoxide Oxidation. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 1002-1012	3.4	229
824	Conformational Behavior of Cinchonidine in Different Solvents: A Combined NMR and ab Initio Investigation. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 12920-12926	16.4	223
823	Mixed-Linker Metal-Organic Frameworks as Catalysts for the Synthesis of Propylene Carbonate from Propylene Oxide and CO <sub>2</sub> . <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 3552-3561	2.3	218

822	Aerosol flame synthesis of catalysts. <i>Advanced Powder Technology</i> , <b>2006</b> , 17, 457-480	4.6	217
821	Titania Silica Mixed Oxides. <i>Journal of Catalysis</i> , <b>1995</b> , 153, 177-189	7.3	211
820	Heterogeneous enantioselective hydrogenation over cinchona alkaloid modified platinum: mechanistic insights into a complex reaction. <i>Accounts of Chemical Research</i> , <b>2004</b> , 37, 909-17	24.3	201
819	Aerogels in Catalysis. <i>Catalysis Reviews - Science and Engineering</i> , <b>1995</b> , 37, 515-556	12.6	195
818	X-ray absorption spectroscopy under reaction conditions: suitability of different reaction cells for combined catalyst characterization and time-resolved studies. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 3037	3.6	194
817	Recent Progress in Heterogeneous Asymmetric Hydrogenation of C=O and C=C Bonds on Supported Noble Metal Catalysts. <i>Chemical Reviews</i> , <b>2017</b> , 117, 11522-11569	68.1	183
816	Metallic glasses in heterogeneous catalysis. <i>Faraday Discussions of the Chemical Society</i> , <b>1989</b> , 87, 239		164
815	Fluoro-apatite and Calcium Phosphate Nanoparticles by Flame Synthesis. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 36-42	9.6	162
814	Synthesis, structural properties, and catalytic behavior of Cu-BTC and mixed-linker Cu-BTC-PyDC in the oxidation of benzene derivatives. <i>Journal of Catalysis</i> , <b>2011</b> , 281, 76-87	7.3	159
813	SCR of NO by NH <sub>3</sub> over TiO <sub>2</sub> -supported V <sub>2</sub> O <sub>5</sub> /MoO <sub>3</sub> catalysts: reactivity and redox behavior. <i>Applied Catalysis B: Environmental</i> , <b>1999</b> , 22, 63-77	21.8	159
812	Silica Hybrid Gel Catalysts Containing Group(VIII) Transition Metal Complexes: Preparation, Structural, and Catalytic Properties in the Synthesis of N,N-Dimethylformamide and Methyl Formate from Supercritical Carbon Dioxide. <i>Journal of Catalysis</i> , <b>1998</b> , 178, 284-298	7.3	157
811	Catalytic Synthesis of Higher Aliphatic Amines from the Corresponding Alcohols. <i>Catalysis Reviews - Science and Engineering</i> , <b>1985</b> , 27, 653-697	12.6	156
810	Beneficial Interaction of Gold and Palladium in Bimetallic Catalysts for the Selective Oxidation of Benzyl Alcohol. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 6191-6201	3.8	155
809	WO <sub>x</sub> /TiO <sub>2</sub> Catalysts Prepared by Grafting of Tungsten Alkoxides: Morphological Properties and Catalytic Behavior in the Selective Reduction of NO by NH <sub>3</sub> . <i>Journal of Catalysis</i> , <b>1996</b> , 159, 259-269	7.3	155
808	Copper-based metal-organic framework for the facile ring-opening of epoxides. <i>Journal of Catalysis</i> , <b>2008</b> , 257, 390-395	7.3	151
807	Shape-selective enantioselective hydrogenation on Pt nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12358-67	16.4	149
806	Flame Aerosol Synthesis of Vanadia/Titania Nanoparticles: Structural and Catalytic Properties in the Selective Catalytic Reduction of NO by NH <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2001</b> , 197, 182-191	7.3	143
805	Sensitivity enhancement and dynamic behavior analysis by modulation excitation spectroscopy: Principle and application in heterogeneous catalysis. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 4902-4909	4.4	142

804	CO oxidation over Au/ZrO <sub>2</sub> catalysts: Activity, deactivation behavior, and reaction mechanism. <i>Journal of Catalysis</i> , <b>1992</b> , 137, 306-321	7.3	141
803	Unraveling the surface reactions during liquid-phase oxidation of benzyl alcohol on Pd/Al <sub>2</sub> O <sub>3</sub> : an in situ ATR-IR study. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 958-67	3.4	139
802	CO <sub>2</sub> hydrogenation over metal/zirconia catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 5071-5080	0.6	139
801	Porous silica gels and TiO <sub>2</sub> /SiO <sub>2</sub> mixed oxides prepared via the sol-gel process: characterization by spectroscopic techniques. <i>Journal of Non-Crystalline Solids</i> , <b>1992</b> , 143, 93-111	3.9	138
800	Exploring catalytic solid/liquid interfaces by in situ attenuated total reflection infrared spectroscopy. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 4571-84	58.5	137
799	Copper/zirconia catalysts for the synthesis of methanol from carbon dioxide. <i>Applied Catalysis A: General</i> , <b>1992</b> , 84, 77-102	5.1	136
798	Magnetically separable Pt catalyst for asymmetric hydrogenation. <i>Journal of Catalysis</i> , <b>2009</b> , 261, 88-93	7.3	134
797	Evolutionarily conserved herpesviral protein interaction networks. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000570	7.6	133
796	MOF-5 based mixed-linker metal-organic frameworks: Synthesis, thermal stability and catalytic application. <i>Thermochimica Acta</i> , <b>2010</b> , 499, 71-78	2.9	133
795	Nuclear scaffold/matrix attached region modules linked to a transcription unit are sufficient for replication and maintenance of a mammalian episome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 11322-7	11.5	132
794	Highly active ruthenium complexes with bidentate phosphine ligands for the solvent-free catalytic synthesis of N,N-dimethylformamide and methyl formate. <i>Chemical Communications</i> , <b>1997</b> , 453-454	5.8	130
793	Flame-made platinum/alumina: structural properties and catalytic behaviour in enantioselective hydrogenation. <i>Journal of Catalysis</i> , <b>2003</b> , 213, 296-304	7.3	128
792	Selective catalytic reduction of nitric oxide with ammonia. <i>Applied Catalysis</i> , <b>1987</b> , 35, 351-364		128
791	2D-mapping of the catalyst structure inside a catalytic microreactor at work: partial oxidation of methane over Rh/Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 8674-80	3.4	127
790	EPOXIDATION OF FUNCTIONALIZED OLEFINS OVER SOLID CATALYSTS. <i>Catalysis Reviews - Science and Engineering</i> , <b>2000</b> , 42, 213-278	12.6	127
789	Titania-based aerogels. <i>Catalysis Today</i> , <b>1997</b> , 35, 339-365	5.3	124
788	Supercritical Fluids in Catalysis: Opportunities of In Situ Spectroscopic Studies and Monitoring Phase Behavior. <i>Catalysis Reviews - Science and Engineering</i> , <b>2003</b> , 45, 1-96	12.6	123
787	Transition state analogues as guide for the rational design of enantioselective heterogeneous hydrogenation catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2000</b> , 163, 205-220		121

786	Monolayers and double layers of vanadium pentoxide on different carriers: Preparation, characterization and catalytic activities. <i>Journal of Catalysis</i> , <b>1986</b> , 101, 1-11	7.3	118
785	Copper metal-organic framework: Structure and activity in the allylic oxidation of cyclohexene with molecular oxygen. <i>Journal of Catalysis</i> , <b>2010</b> , 270, 26-33	7.3	117
784	Utilization of carbon dioxide in heterogeneous catalytic synthesis. <i>Applied Organometallic Chemistry</i> , <b>2000</b> , 14, 751-762	3.1	116
783	Selective Oxidation of Cinnamyl Alcohol to Cinnamaldehyde with Air over Bi-Pt/Alumina Catalysts. <i>Journal of Catalysis</i> , <b>1995</b> , 153, 131-143	7.3	116
782	Pt and Pt/Al <sub>2</sub> O <sub>3</sub> Thin Films for Investigation of Catalytic Solid-Liquid Interfaces by ATR-IR Spectroscopy: CO Adsorption, H <sub>2</sub> -Induced Reconstruction and Surface-Enhanced Absorption. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 3187-3195	3.4	115
781	A new hydrosol of gold clusters. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1993</b> , 96		115
780	Combustion of methane over palladium/zirconia: effect of Pd-particle size and role of lattice oxygen. <i>Catalysis Today</i> , <b>1999</b> , 47, 245-252	5.3	113
779	Gold supported on Cu-Mg-Al-mixed oxides: Strong enhancement of activity in aerobic alcohol oxidation by concerted effect of copper and magnesium. <i>Journal of Catalysis</i> , <b>2007</b> , 248, 175-187	7.3	112
778	Tuning functional sites and thermal stability of mixed-linker MOFs based on MIL-53(Al). <i>Dalton Transactions</i> , <b>2010</b> , 39, 3795-8	4.3	111
777	Synthesis of catalytic materials in flames: opportunities and challenges. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 3053-68	58.5	111
776	Mn(III)(salen)-catalyzed synthesis of cyclic organic carbonates from propylene and styrene oxide in Supercritical CO <sub>2</sub> . <i>Journal of Molecular Catalysis A</i> , <b>2008</b> , 279, 94-103		110
775	Selective Oxidation Catalysis: Opportunities and Challenges. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 1162-1174	2.3	109
774	Carbon dioxide hydrogenation catalyzed by a ruthenium dihydride: a DFT and high-pressure spectroscopic investigation. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 3886-99	4.8	109
773	Flame synthesis of nanocrystalline ceria-zirconia: effect of carrier liquid. <i>Chemical Communications</i> , <b>2003</b> , 588-9	5.8	109
772	Reflections on chiral metal surfaces and their potential for catalysis. <i>Catalysis Today</i> , <b>2005</b> , 100, 159-170	5.3	108
771	Oxidic or metallic palladium: which is the active phase in pd-catalyzed aerobic alcohol oxidation?. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 25586-9	3.4	107
770	Flame spray synthesis of Pd/Al <sub>2</sub> O <sub>3</sub> catalysts and their behavior in enantioselective hydrogenation. <i>Journal of Catalysis</i> , <b>2004</b> , 222, 307-314	7.3	107
769	Surface Species in CO and CO <sub>2</sub> Hydrogenation over Copper/Zirconia: On the Methanol Synthesis Mechanism. <i>Langmuir</i> , <b>1996</b> , 12, 5319-5329	4	107

768	One-Step Synthesis of Submicrometer Fibers of MoO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2004</b> , 16, 1126-1134	9.6	105
767	Enantioselective Hydrogenation of Ethyl Pyruvate: Effect of Catalyst and Modifier Structure. <i>Studies in Surface Science and Catalysis</i> , <b>1991</b> , 147-155	1.8	105
766	Continuous epoxidation of propylene with oxygen and hydrogen on a PdPt/TS-1 catalyst. <i>Applied Catalysis A: General</i> , <b>2001</b> , 208, 125-133	5.1	104
765	On the Role of Oxygen in the Liquid-Phase Aerobic Oxidation of Alcohols on Palladium. <i>Journal of Catalysis</i> , <b>2002</b> , 211, 244-251	7.3	104
764	On the mechanism of CO and CO <sub>2</sub> hydrogenation reactions on zirconia-supported catalysts: a diffuse reflectance FTIR study. <i>Journal of Molecular Catalysis</i> , <b>1990</b> , 63, 243-254		104
763	Gold-Catalyzed Aerobic Oxidation of Benzyl Alcohol: Effect of Gold Particle Size on Activity and Selectivity in Different Solvents. <i>Catalysis Letters</i> , <b>2008</b> , 125, 169-176	2.8	103
762	Selective reduction of NO by NH <sub>3</sub> over manganese/berium mixed oxides: Relation between adsorption, redox and catalytic behavior. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 62, 311-318	21.8	103
761	Discrimination of active palladium sites in catalytic liquid-phase oxidation of benzyl alcohol. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 22982-6	3.4	103
760	Flame-made Alumina Supported PdPt Nanoparticles: Structural Properties and Catalytic Behavior in Methane Combustion. <i>Catalysis Letters</i> , <b>2005</b> , 104, 9-16	2.8	100
759	Aerobic epoxidation of olefins catalyzed by the cobalt-based metal-organic framework STA-12(Co). <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 887-98	4.8	99
758	Chiral catalysis on solids. <i>Current Opinion in Solid State and Materials Science</i> , <b>1998</b> , 3, 86-93	12	99
757	Studying the solvothermal formation of MoO <sub>3</sub> fibers by complementary in situ EXAFS/EDXRD techniques. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 5643-7	16.4	99
756	Nature of Active Sites in Sol-Gel TiO <sub>2</sub> /SiO <sub>2</sub> Epoxidation Catalysts. <i>Journal of Catalysis</i> , <b>2001</b> , 204, 428-439	7.3	99
755	In Situ Infrared Spectroscopy of Catalytic Solid-Liquid Interfaces Using Phase-Sensitive Detection: Enantioselective Hydrogenation of a Pyrone over Pd/TiO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10649-10658	3.4	99
754	Insight into the structure of supported palladium catalysts during the total oxidation of methane. <i>Chemical Communications</i> , <b>2007</b> , 4635-7	5.8	98
753	In situ attenuated total reflection infrared spectroscopy of imidazolium-based room-temperature ionic liquids under "supercritical" CO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 114-22	3.4	97
752	Enantioselective hydrogenation of $\alpha$ -ketoesters: Preparation and catalytic behavior of different alumina-supported platinum catalysts modified with cinchonidine. <i>Journal of Molecular Catalysis</i> , <b>1990</b> , 61, 207-226		97
751	Protonation-Dependent Binding of Ruthenium Bipyridyl Complexes to the Anatase(101) Surface. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8398-8404	3.8	96

750	Carbon dioxide hydrogenation over nickel/zirconia catalysts from amorphous precursors: on the mechanism of methane formation. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 6341-6346		96
749	A simple preparation of an efficient heterogeneous gold catalyst for aerobic amine oxidation. <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 309, 57-62		95
748	Combustion of Methane over Palladium/Zirconia Derived from a Glassy PdZr Alloy: Effect of Pd Particle Size on Catalytic Behavior. <i>Journal of Catalysis</i> , <b>1997</b> , 166, 36-43	7.3	93
747	Selectivity enhancement in heterogeneous catalysis induced by reaction modifiers. <i>Applied Catalysis A: General</i> , <b>2000</b> , 200, 3-22	5.1	93
746	Enantioselective hydrogenation of $\alpha$ -ketoesters over Pt/alumina modified with cinchonidine: theoretical investigation of the substrate-modifier interaction. <i>Catalysis Letters</i> , <b>1994</b> , 23, 271-279	2.8	93
745	On the mechanism of the SCR reaction on Fe/HBEA zeolite. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 93, 185-193	21.8	92
744	Enantioselective hydrogenation of $\alpha$ -ketoesters: influence of reaction medium and conversion. <i>Journal of Molecular Catalysis</i> , <b>1989</b> , 57, 245-257		92
743	Promoted Ru $\gamma$ -hydroxyapatite: designed structure for the fast and highly selective oxidation of alcohols with oxygen. <i>Journal of Catalysis</i> , <b>2005</b> , 230, 406-419	7.3	90
742	Enantioselective hydrogenation of ethyl pyruvate in supercritical fluids. <i>Catalysis Letters</i> , <b>1995</b> , 34, 1-9	2.8	89
741	Influence of the A-site cation in ACoO <sub>3</sub> (A = La, Pr, Nd, and Gd) perovskite-type oxides on catalytic activity for methane combustion. <i>Journal of Catalysis</i> , <b>1994</b> , 146, 268-276	7.3	89
740	Identification of the active species generated from supported Pd catalysts in Heck reactions: an in situ quick scanning EXAFS investigation. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 3921-30	16.4	88
739	Relationships between Structural/Morphological Modifications and Oxygen Storage/Redox Behavior of Silica-Doped Ceria. <i>Journal of Catalysis</i> , <b>2000</b> , 194, 461-478	7.3	88
738	Enantioselective Hydrogenation of Ketopantolactone. <i>Journal of Catalysis</i> , <b>1997</b> , 169, 275-286	7.3	87
737	In Situ Diffuse Reflectance FTIR Study of the Selective Catalytic Reduction of NO by NH <sub>3</sub> over Vanadia-Titania Aerogels. <i>Journal of Catalysis</i> , <b>1994</b> , 147, 5-14	7.3	87
736	Hydrogenation of carbon dioxide over copper/zirconia catalysts prepared by in-situ activation of amorphous copper/zirconium alloy. <i>Applied Catalysis</i> , <b>1989</b> , 48, 279-294		87
735	Catalytic oxidations in dense carbon dioxide. <i>Chemical Reviews</i> , <b>2009</b> , 109, 2409-54	68.1	86
734	In situ spectroscopic investigation of heterogeneous catalysts and reaction media at high pressure. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 3526-39	3.6	86
733	Vanadia grafted on TiO <sub>2</sub> /BiO <sub>2</sub> , TiO <sub>2</sub> and SiO <sub>2</sub> aerogels: Structural properties and catalytic behaviour in selective reduction of NO by NH <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>1999</b> , 23, 187-203	21.8	86

732	Copper- and Silver-Zirconia Aerogels: Preparation, Structural Properties and Catalytic Behavior in Methanol Synthesis from Carbon Dioxide. <i>Journal of Catalysis</i> , <b>1998</b> , 179, 515-527	7.3	85
731	Enantioselective Hydrogenation of $\alpha$ -Unsaturated Carboxylic Acids over Cinchonidine Modified Palladium: Nature of Modifier-Reactant Interaction. <i>Journal of Catalysis</i> , <b>1999</b> , 187, 160-166	7.3	85
730	Asymmetric Hydrogenation of Activated Ketones on Platinum: Relevant and Spectator Species. <i>Topics in Catalysis</i> , <b>2002</b> , 19, 75-87	2.3	84
729	Enantioselective hydrogenation of $\alpha$ -unsaturated acids. Substrate-modifier interaction over cinchonidine modified. <i>Tetrahedron: Asymmetry</i> , <b>1997</b> , 8, 3745-3753		83
728	Flame-made nanocrystalline ceria/zirconia: structural properties and dynamic oxygen exchange capacity. <i>Journal of Catalysis</i> , <b>2003</b> , 220, 35-43	7.3	83
727	An atomistic picture of the regeneration process in dye sensitized solar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4830-3	11.5	82
726	Size selectivity of a copper metal-organic framework and origin of catalytic activity in epoxide alcoholysis. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 12255-62	4.8	82
725	Comparison of grafted vanadia species on ZrO <sub>2</sub> , TiO <sub>2</sub> , SiO <sub>2</sub> and TiO <sub>2</sub> /SiO <sub>2</sub> mixed oxides. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 3299		81
724	A new hydrosol of gold clusters. 2. A comparison of some different measurement techniques. <i>Langmuir</i> , <b>1993</b> , 9, 2310-2317	4	80
723	Palladium-catalyzed asymmetric hydrogenation of furan carboxylic acids. <i>Journal of Catalysis</i> , <b>2003</b> , 219, 52-58	7.3	79
722	Interaction between ketopantolactone and chirally modified Pt investigated by attenuated total reflection IR concentration modulation spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 13342-3	16.4	78
721	Mapping the chemical states of an element inside a sample using tomographic x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3360-3362	3.4	78
720	Magnetically Separable Gold Catalyst for the Aerobic Oxidation of Amines. <i>ChemCatChem</i> , <b>2009</b> , 1, 111-115	11.5	77
719	Increasing the Brønsted acidity of flame-derived silica/alumina up to zeolitic strength. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7776-81	16.4	77
718	Space- and time-resolved combined DRIFT and Raman spectroscopy: monitoring dynamic surface and bulk processes during NO(x) storage reduction. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9256-9	16.4	77
717	Supported gold catalysts for CO oxidation: Effect of calcination on structure, adsorption and catalytic behaviour. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 3846-3855	3.6	77
716	Combined liquid-phase ATR-IR and XAS study of the Bi-promotion in the aerobic oxidation of benzyl alcohol over Pd/Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2007</b> , 252, 77-87	7.3	76
715	In Situ ATR-IR Study of the Adsorption of Cinchonidine on Pd/Al <sub>2</sub> O <sub>3</sub> : Differences and Similarities with Adsorption on Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2002</b> , 210, 160-170	7.3	76

7 <sup>14</sup>	Enantioselective Hydrogenation of Ethyl Pyruvate over Pt/Alumina Modified by (R)-1-(1-Naphthyl)ethylamine Derivatives. <i>Journal of Catalysis</i> , <b>1996</b> , 160, 261-268	7.3	76
7 <sup>13</sup>	On the mechanism of CO and CO <sub>2</sub> hydrogenation reactions on zirconia-supported catalysts: a diffuse reflectance FTIR study. <i>Journal of Molecular Catalysis</i> , <b>1990</b> , 63, 223-242		76
7 <sup>12</sup>	ESR characterization of vanadium pentoxide monolayers and double layers supported on various carriers. <i>The Journal of Physical Chemistry</i> , <b>1986</b> , 90, 2715-2718		76
7 <sup>11</sup>	Competition at chiral metal surfaces: fundamental aspects of the inversion of enantioselectivity in hydrogenations on platinum. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 8467-77	16.4	75
7 <sup>10</sup>	Effect of the addition of chromium- and manganese oxides on structural and catalytic properties of copper/zirconia catalysts for the synthesis of methanol from carbon dioxide. <i>Journal of Molecular Catalysis A</i> , <b>1997</b> , 126, 169-184		74
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