

Alfons Baiker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Promoting Aromatic C-H Activation through Reactive Brønsted Acid-Base Pairs on Penta-Coordinated Al-Enriched Amorphous Silica-Alumina.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 486-491	6.4	1
838	Revealing Brønsted Acidic Bridging SiOHAl Groups on Amorphous Silica-Alumina by Ultrahigh Field Solid-State NMR. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11563-11572	6.4	2
837	Synergistic Effects of Ternary PdO-CeO-OMS-2 Catalyst Afford High Catalytic Performance and Stability in the Reduction of NO with CO. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 622-630	9.5	14
836	Formation and Location of Pt Single Sites Induced by Pentacoordinated Al Species on Amorphous Silica-Alumina. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2536-2546	6.4	3
835	Influence of the support in aqueous phase oxidation of ethanol on gold/metal oxide catalysts studied by ATR-IR spectroscopy under working conditions. <i>Catalysis Communications</i> , 2021 , 148, 106183 ^{3,2}		
834	Potassium Titanate Nanobelts: A Unique Support for Au and AuRh Nanoparticles in the Catalytic Reduction of NO with CO. <i>ChemCatChem</i> , 2021 , 13, 438-444	5.2	4
833	Support effects in iridium-catalyzed aerobic oxidation of benzyl alcohol studied by modulation-excitation attenuated total reflection IR spectroscopy. <i>Journal of Catalysis</i> , 2021 , 393, 42-50 ^{7,3}		3
832	Bimetallic AuPd@CeO ₂ Nanoparticles Supported on Potassium Titanate Nanobelts: A Highly Efficient Catalyst for the Reduction of NO with CO. <i>Catalysis Letters</i> , 2021 , 151, 2483-2491	2.8	4
831	Engineering the Distinct Structure Interface of Subnano-alumina Domains on Silica for Acidic Amorphous Silica-Alumina toward Biorefining. <i>Jacs Au</i> , 2021 , 1, 262-271		2
830	Effect of the Configuration of Copper Oxide-Ceria Catalysts in NO Reduction with CO: Superior Performance of a Copper-Ceria Solid Solution.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61078-61087 ^{9,5}		6
829	Acidity enhancement through synergy of penta- and tetra-coordinated aluminum species in amorphous silica networks. <i>Nature Communications</i> , 2020 , 11, 225	17.4	26
828	Pentacoordinated Aluminum Species: New Frontier for Tailoring Acidity-Enhanced Silica-Alumina Catalysts. <i>Accounts of Chemical Research</i> , 2020 , 53, 2648-2658	24.3	10
827	Strong Activity Enhancement of the Photocatalytic Degradation of an Azo Dye on Au/TiO ₂ Doped with FeOx. <i>Catalysts</i> , 2020 , 10, 933	4	6
826	Comparative Density Functional Theory Study of Cinchonidine and Hydrogen Coadsorption on Platinum Group Metals (Rh, Ir, Pd, and Pt) and Its Implications on Surface Chiral Site Formation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18020-18030	3.8	6
825	NMR Spectroscopic Characterization of Flame-Made Amorphous Silica-Alumina for Cyclohexanol and Glyceraldehyde Conversion. <i>ChemCatChem</i> , 2020 , 12, 287-293	5.2	5
824	Surface processes occurring during aqueous phase ethanol reforming on Ru/TiO ₂ tracked by ATR-IR spectroscopy. <i>Applied Catalysis A: General</i> , 2019 , 581, 111-115	5.1	6
823	High population and dispersion of pentacoordinated AlV species on the surface of flame-made amorphous silica-alumina. <i>Science Bulletin</i> , 2019 , 64, 516-523	10.6	15

822	Critical examination of equilibrium constants proposed for the methylcyclohexane dehydrogenation to toluene. <i>Chemical Engineering Communications</i> , 2019 , 206, 125-134	2.2	2
821	Shedding light on the atomic-scale structure of amorphous silica-alumina and its Brønsted acid sites. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 19529-19537	3.6	20
820	Strongly enhanced acidity and activity of amorphous silica-alumina by formation of pentacoordinated AlV species. <i>Journal of Catalysis</i> , 2019 , 372, 1-7	7.3	19
819	Structure and Catalytic Behavior of Alumina Supported Bimetallic Au-Rh Nanoparticles in the Reduction of NO by CO. <i>Catalysts</i> , 2019 , 9, 937	4	5
818	Effect of cobalt loading on structure and catalytic behavior of CoO _x /SiO ₂ in CO ₂ -assisted dehydrogenation of ethane. <i>Applied Catalysis A: General</i> , 2018 , 552, 77-85	5.1	27
817	Variability of particle configurations achievable by 2-nozzle flame syntheses of the Au-Pd-TiO ₂ system and their catalytic behaviors in the selective hydrogenation of acetylene. <i>Applied Catalysis A: General</i> , 2018 , 549, 1-7	5.1	25
816	Hydrogenation of Acetophenone on Pd/Silica-Alumina Catalysts with Tunable Acidity: Mechanistic Insight by In Situ ATR-IR Spectroscopy. <i>ACS Catalysis</i> , 2018 , 8, 6594-6600	13.1	16
815	Discrimination of active species in liquid-phase hydrogenation on supported noble metal catalyst: An operando spectroscopic study on the asymmetric hydrogenation of ketopantolactone on Pt/Al ₂ O ₃ and Pt/C modified by cinchonidine. <i>Catalysis Today</i> , 2017 , 283, 66-73	5.3	18
814	Striking activity enhancement of gold supported on Al-Ti mixed oxide by promotion with ceria in the reduction of NO with CO. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 62-68	21.8	17
813	The Critical Role of Tilted Cinchona Surface Species for Enantioselective Hydrogenation. <i>ACS Catalysis</i> , 2017 , 7, 3799-3809	13.1	23
812	Recent Progress in Heterogeneous Asymmetric Hydrogenation of C=O and C=C Bonds on Supported Noble Metal Catalysts. <i>Chemical Reviews</i> , 2017 , 117, 11522-11569	68.1	183
811	Coadsorption of Cinchona Alkaloids and Oxygen on Pt(111): A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20170-20180	3.8	4
810	Synergistic Effects of Au and FeO _x Nanocomposites in Catalytic NO Reduction with CO. <i>ACS Catalysis</i> , 2016 , 6, 7898-7906	13.1	26
809	Brønsted acid sites based on penta-coordinated aluminum species. <i>Nature Communications</i> , 2016 , 7, 13820	17.4	73
808	Synthesis of catalytic materials in flames: opportunities and challenges. <i>Chemical Society Reviews</i> , 2016 , 45, 3053-68	58.5	111
807	Silica is preferred over various single and mixed oxides as support for CO ₂ -assisted cobalt-catalyzed oxidative dehydrogenation of ethane. <i>Applied Catalysis A: General</i> , 2016 , 527, 96-108	5.1	47
806	Crucial aspects in the design of chirally modified noble metal catalysts for asymmetric hydrogenation of activated ketones. <i>Chemical Society Reviews</i> , 2015 , 44, 7449-64	58.5	52
805	Influence of support acidity on the performance of size-confined Pt nanoparticles in the chemoselective hydrogenation of acetophenone. <i>Catalysis Science and Technology</i> , 2015 , 5, 2788-2797	5.5	21

804	Chiral modification of platinum: ab initio study of the effect of hydrogen coadsorption on stability and geometry of adsorbed cinchona alkaloids. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27615-29	3.6	14
803	Enantioselection on Heterogeneous Noble Metal Catalyst: Proline-Induced Asymmetry in the Hydrogenation of Isophorone on Pd Catalyst. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12121-30	16.4	23
802	Oxidative Dehydrogenation of Ethane with CO ₂ over Flame-Made Ga-Loaded TiO ₂ . <i>ACS Catalysis</i> , 2015 , 5, 690-702	13.1	64
801	Chiral imidazolidinone and proline-derived surface modifiers for the Pt-catalysed asymmetric hydrogenation of activated ketones. <i>Journal of Molecular Catalysis A</i> , 2015 , 396, 335-345		9
800	Comparative studies on the catalytic activity and structure of a Cu-MOF and its precursor for alcoholysis of cyclohexene oxide. <i>Catalysis Science and Technology</i> , 2015 , 5, 897-902	5.5	15
799	Adsorption and stability of chiral modifiers based on 1-(1-naphthyl)-ethylamine for Pt catalysed heterogeneous asymmetric hydrogenations. <i>Catalysis Science and Technology</i> , 2015 , 5, 705-715	5.5	15
798	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. <i>Organic Process Research and Development</i> , 2015 , 19, 3-62	3.9	251
797	Monitoring surface processes during heterogeneous asymmetric hydrogenation of ketones on a chirally modified platinum catalyst by operando spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8640-4	16.4	43
796	Asymmetric Catalysis on Cinchonidine-Modified Pt/Al ₂ O ₃ : Kinetics and Isotope Effect in the Hydrogenation of Trifluoroacetophenone. <i>ACS Catalysis</i> , 2014 , 4, 344-354	13.1	19
795	Oxidative coupling of methane on flame-made Mn-Na ₂ WO ₄ /SiO ₂ : Influence of catalyst composition and reaction conditions. <i>Applied Catalysis A: General</i> , 2014 , 484, 97-107	5.1	31
794	Effect of Ba and K addition and controlled spatial deposition of Rh in Rh/Al ₂ O ₃ catalysts for CO ₂ hydrogenation. <i>Applied Catalysis A: General</i> , 2014 , 477, 93-101	5.1	51
793	Catalytic Performance of Brønsted and Lewis Acid Sites in Phenylglyoxal Conversion on Flame-Derived Silica/Zirconia. <i>ChemCatChem</i> , 2014 , 6, 2970-2975	5.2	20
792	Chiral modification of platinum by co-adsorbed cinchonidine and trifluoroacetic acid: origin of enhanced stereocontrol in the hydrogenation of trifluoroacetophenone. <i>Chemistry - A European Journal</i> , 2014 , 20, 1298-309	4.8	13
791	Monitoring Surface Processes During Heterogeneous Asymmetric Hydrogenation of Ketones on a Chirally Modified Platinum Catalyst by Operando Spectroscopy. <i>Angewandte Chemie</i> , 2014 , 126, 8784-8788	2.6	1
790	Simultaneous probing of bulk liquid phase and catalytic gas-liquid-solid interface under working conditions using attenuated total reflection infrared spectroscopy. <i>Review of Scientific Instruments</i> , 2014 , 85, 084101	1.7	26
789	Experimental determination and modeling of the phase behavior for the direct synthesis of dimethyl carbonate from methanol and carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013 , 84, 155-163	4.2	3
788	Structural properties of alumina- and silica-supported Iridium catalysts and their behavior in the enantioselective hydrogenation of ethyl pyruvate. <i>Applied Catalysis A: General</i> , 2013 , 451, 14-20	5.1	11
787	Efficient Acid-Catalyzed Conversion of Phenylglyoxal to Mandelates on Flame-Derived Silica/Alumina. <i>ACS Catalysis</i> , 2013 , 3, 1573-1577	13.1	21

786	Insight into the Mechanism of the Preferential Oxidation of Carbon Monoxide by Using Isotope-Modulated Excitation IR Spectroscopy. <i>ChemCatChem</i> , 2013 , 5, 2199-2202	5.2	6
785	Free energy and electronic properties of water adsorption on the SnO ₂ (110) surface. <i>Langmuir</i> , 2013 , 29, 5487-99	4	38
784	Interactions of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid with Alumina Nanoparticles and Organic Solvents Studied by Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12210-12217	3.8	37
783	Selectivity-Controlling Factors in Catalytic Methanol Amination Studied by Isotopically Modulated Excitation IR Spectroscopy. <i>ACS Catalysis</i> , 2013 , 3, 219-223	13.1	12
782	In Situ Modulation Excitation IR Study on the Dominant Product of Pt-Catalyzed Aromatic Ketone Hydrogenation. <i>Advanced Materials Research</i> , 2013 , 683, 271-274	0.5	1
781	Potential of ionic liquids as co-modifiers in asymmetric hydrogenation on platinum. <i>Journal of Molecular Catalysis A</i> , 2012 , 357, 117-124		10
780	Selective oxidation of benzyl alcohol in dense CO ₂ : Insight by phase behavior modeling. <i>Journal of Supercritical Fluids</i> , 2012 , 63, 199-207	4.2	11
779	Aerobic epoxidation of olefins catalyzed by the cobalt-based metal-organic framework STA-12(Co). <i>Chemistry - A European Journal</i> , 2012 , 18, 887-98	4.8	99
778	Tuning the Chemoselective Hydrogenation of Nitrostyrenes Catalyzed by Ionic Liquid-Supported Platinum Nanoparticles. <i>ACS Catalysis</i> , 2012 , 2, 2587-2595	13.1	56
777	Ionic Liquid-Supported Pt Nanoparticles as Catalysts for Enantioselective Hydrogenation. <i>ACS Catalysis</i> , 2012 , 2, 337-340	13.1	32
776	Fundamental insights into the enantioselectivity of hydrogenations on cinchona-modified platinum and palladium. <i>Journal of Catalysis</i> , 2012 , 289, 238-248	7.3	54
775	Heterogeneous Asymmetric Hydrogenation of Prochiral Alkenoic Acid: Origin of Rate and Enantioselectivity Enhancement by Amine Addition. <i>ACS Catalysis</i> , 2012 , 2, 464-467	13.1	28
774	Molecular Insight into Pt-Catalyzed Chemoselective Hydrogenation of an Aromatic Ketone by In Situ Modulation-Excitation IR Spectroscopy. <i>ACS Catalysis</i> , 2012 , 2, 2007-2013	13.1	35
773	Fluid phase equilibria of the reaction mixture during the selective hydrogenation of 2-butenal in dense carbon dioxide. <i>Applied Catalysis A: General</i> , 2012 , 443-444, 67-75	5.1	6
772	Hydrogenation of 2,2,2-trifluoroacetophenone: Molecular insight into the role of solvent in enantioselection. <i>Journal of Molecular Catalysis A</i> , 2012 , 365, 39-49		8
771	First principles analysis of H ₂ O adsorption on the (110) surfaces of SnO ₂ , TiO ₂ and their solid solutions. <i>Langmuir</i> , 2012 , 28, 1646-56	4	46
770	Heterogeneous Asymmetric Hydrogenation of Activated Ketones: Mechanistic Insight into the Role of Alcohol Products by in Situ Modulation-Excitation IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4182-4188	3.8	19
769	Highly cross-linked imidazolium salt entrapped magnetic particles [preparation and applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20728		32

768	Platin-katalysierte asymmetrische Hydrierung: spektroskopischer Nachweis einer O-H-O-Brücke zwischen Substrat und chiralem Modifikator. <i>Angewandte Chemie</i> , 2012 , 124, 8336-8340	3.6	7
767	Platinum-catalyzed asymmetric hydrogenation: spectroscopic evidence for an O-H-O hydrogen-bond interaction between substrate and modifier. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8212-6	16.4	50
766	Efficient solvent-free hydrogenation of ketones over flame-prepared bimetallic Pt-Pd/ZrO(2) catalysts. <i>ChemSusChem</i> , 2012 , 5, 1190-4	8.3	9
765	Selective hydrogenation of cyclohexenone on iron-ruthenium nano-particles suspended in ionic liquids and CO ₂ -expanded ionic liquids. <i>Catalysis Science and Technology</i> , 2012 , 2, 1403	5.5	29
764	Potential of gold nanoparticles for oxidation in fine chemical synthesis. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2012 , 3, 11-28	8.9	44
763	Mono- and bimetallic Rh and Pt NSR-catalysts prepared by controlled deposition of noble metals on support or storage component. <i>Applied Catalysis B: Environmental</i> , 2012 , 113-114, 160-171	21.8	17
762	NO _x storage and reduction over flame-made M/MgAl ₂ O ₄ (M=Pt, Pd, and Rh): A comparative study. <i>Applied Catalysis B: Environmental</i> , 2012 , 119-120, 279-286	21.8	13
761	Spectroscopic detection of active species on catalytic surfaces: steady-state versus transient method. <i>Chimia</i> , 2012 , 66, 664-7	1.3	11
760	LuMPIS: luciferase-based MBP-pull-down protein interaction screening system. <i>Methods in Molecular Biology</i> , 2012 , 815, 265-75	1.4	0
759	Catalysis with Chirally Modified Metal Surfaces: Scope and Mechanisms 2011 , 291-321		0
758	Asymmetric hydrogenation on chirally modified Pt: origin of hydrogen in the N-H-O interaction between cinchonidine and ketone. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19567-9	16.4	49
757	Polymer-assisted synthesis of nanocrystalline copper-based metal-organic framework for amine oxidation. <i>Catalysis Communications</i> , 2011 , 12, 602-605	3.2	59
756	Ionic liquids and dense carbon dioxide: a beneficial biphasic system for catalysis. <i>Chemical Reviews</i> , 2011 , 111, 322-53	68.1	236
755	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> , 2011 , 133, 3921-30	16.4	88
754	Hydrogenation of acetophenone derivatives: Tuning the enantioselectivity via the metal-support interaction. <i>Journal of Catalysis</i> , 2011 , 278, 94-101	7.3	20
753	Multiple cycle reaction mechanism in the enantioselective hydrogenation of α -trifluoromethyl ketones. <i>Journal of Catalysis</i> , 2011 , 280, 104-115	7.3	25
752	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> , 2011 , 281, 76-87	7.3	159
751	SrO/Al ₂ O ₃ mixed oxides: A promising class of catalysts for oxidative coupling of methane. <i>Journal of Catalysis</i> , 2011 , 281, 241-253	7.3	25

750	Tuning the support acidity of flame-made Pd/SiO ₂ /Al ₂ O ₃ catalysts for chemoselective hydrogenation. <i>Journal of Catalysis</i> , 2011 , 281, 352-360	7.3	53
749	Redox properties of supported copper catalysts studied in liquid and gas phase by in situ ATR-IR and XAS. <i>Catalysis Today</i> , 2011 , 178, 124-131	5.3	9
748	Flame Aerosol Synthesis of Metal Oxide Catalysts with Unprecedented Structural and Catalytic Properties. <i>ChemCatChem</i> , 2011 , 3, 1234-1256	5.2	59
747	Experimental determination and modeling of the phase behavior for the selective oxidation of benzyl alcohol in supercritical CO ₂ . <i>Fluid Phase Equilibria</i> , 2011 , 302, 83-92	2.5	10
746	Selective Conversion of Ethane to Ethene via Oxidative Dehydrogenation Over Ca-doped ThO ₂ Using CO ₂ as Oxidant. <i>Topics in Catalysis</i> , 2011 , 54, 881-887	2.3	25
745	Characterization of AuPd Nanoparticles by Probe-Corrected Scanning Transmission Electron Microscopy and X-ray Absorption Spectroscopy. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011 , 637, 875-881	1.3	6
744	Ab Initio Molecular Dynamics Investigation of the Coadsorption of Acetaldehyde and Hydrogen on a Platinum Nanocluster. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10661-10667	3.8	6
743	Exchange of Hydrogen between a Platinum Surface and a Tertiary Amine: An ab Initio Molecular Dynamics Investigation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1969-1977	3.8	15
742	Surface Properties of Supported, Colloid-Derived Gold/Palladium Mono- and Bimetallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8195-8205	3.8	26
741	Binary Ionic Liquids with a Common Cation: Insight into Nanoscopic Mixing by Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2959-2964	6.4	37
740	Reactions in Sacrificial Solvents. <i>Catalysis Science and Technology</i> , 2011 , 1, 1572	5.5	37
739	Influence of controlled spatial deposition of Pt and Pd in NO _x storage-reduction catalysts on their efficiency. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 682-689	21.8	12
738	Influence of Ba precursor on structural and catalytic properties of Pt/Ba/alumina NO _x storage-reduction catalyst. <i>Applied Catalysis B: Environmental</i> , 2011 , 103, 154-162	21.8	12
737	Structural dependence of the efficiency of functionalization of silica-coated FeO _x magnetic nanoparticles studied by ATR-IR. <i>Applied Surface Science</i> , 2011 , 257, 2861-2869	6.7	15
736	Oxidative coupling of methane over Ca- and alkali metal-doped ThO ₂ . <i>Applied Catalysis A: General</i> , 2011 , 391, 205-214	5.1	20
735	Theoretical study of the (110) surface of Sn _{1-x} Ti _x O ₂ solid solutions with different distribution and content of Ti. <i>Surface Science</i> , 2011 , 605, 1476-1482	1.8	12
734	Free energy surface of two- and three-dimensional transitions of Au 12 nanoclusters obtained by ab initio metadynamics. <i>Physical Review B</i> , 2010 , 81,	3.3	24
733	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> , 2010 , 107, 4830-3	11.5	82

732	Protonation-Dependent Binding of Ruthenium Bipyridyl Complexes to the Anatase(101) Surface. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8398-8404	3.8	96
731	Insight into Fundamental, Overtone, and Combination IR Bands of Surface and Bulk Ba(NO ₃) ₂ by Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15042-15048	3.8	7
730	Effect of Dehydration on the Local Structure of Framework Aluminum Atoms in Mixed Linker MIL-53(Al) Materials Studied by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2886-2890	6.4	46
729	Oscillatory behaviour of catalytic properties, structure and temperature during the catalytic partial oxidation of methane on Pd/Al ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2288-91	3.6	37
728	Investigation of binary and ternary systems of ionic liquids with water and/or supercritical CO ₂ by in situ attenuated total reflection infrared spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2111-14	3.4	24
727	Surface Reactions on Pt during NO _x Storage/Reduction Studied by Polarization-Modulation Infrared Reflection/Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 54-58	6.4	5
726	BINAP Adsorption on Palladium: A Combined Infrared Spectroscopy and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17836-17844	3.8	10
725	Simple in situ monitoring of a complex catalytic reaction network at high pressure by attenuated total reflection Fourier transform infrared spectroscopy. <i>Applied Spectroscopy</i> , 2010 , 64, 286-92	3.1	4
724	Exploring catalytic solid/liquid interfaces by in situ attenuated total reflection infrared spectroscopy. <i>Chemical Society Reviews</i> , 2010 , 39, 4571-84	58.5	137
723	Tuning functional sites and thermal stability of mixed-linker MOFs based on MIL-53(Al). <i>Dalton Transactions</i> , 2010 , 39, 3795-8	4.3	111
722	Role of Bi promotion and solvent in platinum-catalyzed alcohol oxidation probed by in situ X-ray absorption and ATR-IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5307-16	3.6	44
721	Development of a New Generation of Gold Catalysts for Amine Oxidation. <i>ChemCatChem</i> , 2010 , 2, 666-673	3.3	66
720	Copper metal-organic framework: Structure and activity in the allylic oxidation of cyclohexene with molecular oxygen. <i>Journal of Catalysis</i> , 2010 , 270, 26-33	7.3	117
719	Influence of support acid/base properties on the platinum-catalyzed enantioselective hydrogenation of activated ketones. <i>Journal of Catalysis</i> , 2010 , 271, 115-124	7.3	62
718	Single-step flame-made Pt/MgAl ₂ O ₄ as NO _x storage-reduction catalyst with unprecedented dynamic behavior and high thermal stability. <i>Journal of Catalysis</i> , 2010 , 271, 125-131	7.3	26
717	Substrate-controlled adsorption of cinchonidine during enantioselective hydrogenation on platinum. <i>Journal of Catalysis</i> , 2010 , 272, 140-150	7.3	32
716	Structure of flame-made vanadia/silica and catalytic behavior in the oxidative dehydrogenation of propane. <i>Journal of Catalysis</i> , 2010 , 274, 64-75	7.3	59
715	Metal-support interaction in Pt/alumina: Inversion of diastereoselectivity by tuning the acid/base properties of the support. <i>Journal of Catalysis</i> , 2010 , 274, 117-120	7.3	21

714	Platinum nanoparticles: the crucial role of crystal face and colloid stabilizer in the diastereoselective hydrogenation of cinchonidine. <i>Chemistry - A European Journal</i> , 2010 , 16, 2181-92	4.8	45
713	Mechanism of the catalytic deperoxidation of tert-butylhydroperoxide with cobalt(II) acetylacetonate. <i>Chemistry - A European Journal</i> , 2010 , 16, 13226-35	4.8	60
712	Asymmetric C-C bond-formation reaction with Pd: how to favor heterogeneous or homogeneous catalysis?. <i>Chemistry - A European Journal</i> , 2010 , 16, 9658-68	4.8	13
711	Increasing the Brønsted Acidity of Flame-Derived Silica/Alumina up to Zeolitic Strength. <i>Angewandte Chemie</i> , 2010 , 122, 7942-7947	3.6	11
710	Increasing the Brønsted acidity of flame-derived silica/alumina up to zeolitic strength. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7776-81	16.4	77
709	A novel class of fluorinated cinchona alkaloids as surface modifiers for the enantioselective heterogeneous hydrogenation of β -ketoesters. <i>Journal of Molecular Catalysis A</i> , 2010 , 327, 87-91		26
708	Purification of ionic liquids by supercritical CO ₂ monitored by infrared spectroscopy. <i>Journal of Supercritical Fluids</i> , 2010 , 55, 395-400	4.2	16
707	MOF-5 based mixed-linker metal-organic frameworks: Synthesis, thermal stability and catalytic application. <i>Thermochimica Acta</i> , 2010 , 499, 71-78	2.9	133
706	Fine tuning the surface acid/base properties of single step flame-made Pt/alumina. <i>Applied Catalysis A: General</i> , 2010 , 374, 48-57	5.1	38
705	Elucidation of structure-activity relationships of model three way catalysts for the combustion of methane. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 77-84	21.8	33
704	Flame-made MgAl ₂ -MxO ₄ (M=Mn, Fe, Co) mixed oxides: Structural properties and catalytic behavior in methane combustion. <i>Applied Catalysis B: Environmental</i> , 2010 , 97, 398-406	21.8	30
703	In situ PM-IRRAS study of powder catalyst: Dynamic evolutions of species on catalyst and in gas phase during NO _x storage-reduction. <i>Catalysis Today</i> , 2010 , 155, 172-176	5.3	8
702	Evolutionarily conserved herpesviral protein interaction networks. <i>PLoS Pathogens</i> , 2009 , 5, e1000570	7.6	133
701	Magnetically separable Pt catalyst for asymmetric hydrogenation. <i>Journal of Catalysis</i> , 2009 , 261, 88-93	7.3	134
700	Influence of Pt location on BaCO ₃ or Al ₂ O ₃ during NO _x storage reduction. <i>Journal of Catalysis</i> , 2009 , 261, 201-207	7.3	39
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