

Alfons Baiker

List of Publications by Year in descending order

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2440

100
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888
all docs

888
docs citations

888
times ranked

29078
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#	ARTICLE	IF	CITATIONS
1	Continuous dimethyl carbonate synthesis from CO ₂ and methanol over Bi _{0.1} Ce _{0.9} monoliths: Effect of bismuth doping on population of oxygen vacancies, activity, and reaction pathway. Nano Research, 2022, 15, 1366-1374.	5.8	51
2	Promoting Aromatic C-H Activation through Reactive Brønsted Acid-Base Pairs on Penta-Coordinated Al-Enriched Amorphous Silica-Alumina. Journal of Physical Chemistry Letters, 2022, 13, 486-491.	2.1	3
3	Green Synthesis of Dimethyl Carbonate from CO ₂ and Methanol: New Strategies and Industrial Perspective. Advanced Sustainable Systems, 2022, 6, .	2.7	21
4	Ternary CuCrCeO _x Solid Solution Enhances N ₂ Selectivity in the NO Reduction with CO in the Presence of Water and Oxygen. ChemCatChem, 2022, 14, .	1.8	9
5	Tailoring single site VO ₄ on flame-made V/Al ₂ O ₃ catalysts for selective oxidation of n-butane. Journal of Catalysis, 2022, 413, 93-105.	3.1	4
6	Influence of the support in aqueous phase oxidation of ethanol on gold/metal oxide catalysts studied by ATR-IR spectroscopy under working conditions. Catalysis Communications, 2021, 148, 106183.	1.6	1
7	Potassium Titanate Nanobelts: A Unique Support for Au and AuRh Nanoparticles in the Catalytic Reduction of NO with CO. ChemCatChem, 2021, 13, 438-444.	1.8	7
8	Support effects in iridium-catalyzed aerobic oxidation of benzyl alcohol studied by modulation-excitation attenuated total reflection IR spectroscopy. Journal of Catalysis, 2021, 393, 42-50.	3.1	9
9	Bimetallic AuPd@CeO ₂ Nanoparticles Supported on Potassium Titanate Nanobelts: A Highly Efficient Catalyst for the Reduction of NO with CO. Catalysis Letters, 2021, 151, 2483-2491.	1.4	6
10	Engineering the Distinct Structure Interface of Subnano-alumina Domains on Silica for Acidic Amorphous Silica-Alumina toward Biorefining. JACS Au, 2021, 1, 262-271.	3.6	7
11	Formation and Location of Pt Single Sites Induced by Pentacoordinated Al Species on Amorphous Silica-Alumina. Journal of Physical Chemistry Letters, 2021, 12, 2536-2546.	2.1	11
12	NO reduction with CO over CuO/CeO ₂ nanocomposites: influence of oxygen vacancies and lattice strain. Catalysis Science and Technology, 2021, 11, 6543-6552.	2.1	20
13	Synergistic Effects of Ternary Pd-CeO ₂ -OMS-2 Catalyst Afford High Catalytic Performance and Stability in the Reduction of NO with CO. ACS Applied Materials & Interfaces, 2021, 13, 622-630.	4.0	28
14	Revealing Brønsted Acidic Bridging SiOHAl Groups on Amorphous Silica-Alumina by Ultrahigh Field Solid-State NMR. Journal of Physical Chemistry Letters, 2021, 12, 11563-11572.	2.1	8
15	Effect of the Configuration of Copper Oxide-Ceria Catalysts in NO Reduction with CO: Superior Performance of a Copper-Ceria Solid Solution. ACS Applied Materials & Interfaces, 2021, 13, 61078-61087.	4.0	37
16	NMR Spectroscopic Characterization of Flame-Made Amorphous Silica-Alumina for Cyclohexanol and Glycerinaldehyde Conversion. ChemCatChem, 2020, 12, 287-293.	1.8	7
17	Pentacoordinated Aluminum Species: New Frontier for Tailoring Acidity-Enhanced Silica-Alumina Catalysts. Accounts of Chemical Research, 2020, 53, 2648-2658.	7.6	32
18	Strong Activity Enhancement of the Photocatalytic Degradation of an Azo Dye on Au/TiO ₂ Doped with FeO _x . Catalysts, 2020, 10, 933.	1.6	16

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19	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.	1.5	6
20	Acidity enhancement through synergy of penta- and tetra-coordinated aluminum species in amorphous silica networks. <i>Nature Communications</i> , 2020, 11, 225.	5.8	40
21	Critical examination of equilibrium constants proposed for the methylcyclohexane dehydrogenation to toluene. <i>Chemical Engineering Communications</i> , 2019, 206, 125-134.	1.5	3
22	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.	1.3	32
23	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.	2.2	11
24	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.	4.3	25
25	Strongly enhanced acidity and activity of amorphous silica-alumina by formation of pentacoordinated AlV species. <i>Journal of Catalysis</i> , 2019, 372, 1-7.	3.1	30
26	Structure and Catalytic Behavior of Alumina Supported Bimetallic Au-Rh Nanoparticles in the Reduction of NO by CO. <i>Catalysis</i> , 2019, 9, 937.	1.6	10
27	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.	2.2	48
28	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.	2.2	31
29	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.	5.5	28
30	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.	2.2	22
31	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.	10.8	19
32	The Critical Role of Tilted Cinchona Surface Species for Enantioselective Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 3799-3809.	5.5	27
33	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.	23.0	265
34	Brønsted acid sites based on penta-coordinated aluminum species. <i>Nature Communications</i> , 2016, 7, 13820.	5.8	99
35	Synthesis of catalytic materials in flames: opportunities and challenges. <i>Chemical Society Reviews</i> , 2016, 45, 3053-3068.	18.7	161
36	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.	2.2	60

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37	Coadsorption of Cinchona Alkaloids and Oxygen on Pt(111): A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20170-20180.	1.5	5
38	Synergistic Effects of Au and FeO _x Nanocomposites in Catalytic NO Reduction with CO. <i>ACS Catalysis</i> , 2016, 6, 7898-7906.	5.5	33
39	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. <i>Organic Process Research and Development</i> , 2015, 19, 3-62.	1.3	329
40	Crucial aspects in the design of chirally modified noble metal catalysts for asymmetric hydrogenation of activated ketones. <i>Chemical Society Reviews</i> , 2015, 44, 7449-7464.	18.7	71
41	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.	2.1	30
42	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, 27615-27629.	1.3	16
43	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, 12121-12130.	6.6	24
44	Oxidative Dehydrogenation of Ethane with CO ₂ over Flame-Made Ga-Loaded TiO ₂ . <i>ACS Catalysis</i> , 2015, 5, 690-702.	5.5	80
45	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.	4.8	12
46	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.	2.1	17
47	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.	2.1	17
48	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.	0.6	30
49	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, 8640-8644.	7.2	45
50	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.	5.5	23
51	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.	2.2	40
52	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.	2.2	71
53	Catalytic Performance of Brønsted and Lewis Acid Sites in Phenylglyoxal Conversion on Flame-Derived Silica-Zirconia. <i>ChemCatChem</i> , 2014, 6, 2970-2975.	1.8	22
54	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, 1298-1309.	1.7	18

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55	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.	1.6	5
56	Towards environmentally benign catalytic oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 267.	2.1	6
57	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.	2.2	12
58	Efficient Acid-Catalyzed Conversion of Phenylglyoxal to Mandelates on Flame-Derived Silica/Alumina. <i>ACS Catalysis</i> , 2013, 3, 1573-1577.	5.5	21
59	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.	1.8	7
60	Free Energy and Electronic Properties of Water Adsorption on the SnO ₂ (110) Surface. <i>Langmuir</i> , 2013, 29, 5487-5499.	1.6	56
61	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.	1.5	37
62	Selectivity-Controlling Factors in Catalytic Methanol Amination Studied by Isotopically Modulated Excitation IR Spectroscopy. <i>ACS Catalysis</i> , 2013, 3, 219-223.	5.5	16
63	Spectroscopic Detection of Active Species on Catalytic Surfaces: Steady-State versus Transient Method. <i>Chimia</i> , 2012, 66, 664.	0.3	12
64	Tuning the Chemoselective Hydrogenation of Nitrostyrenes Catalyzed by Ionic Liquid-Supported Platinum Nanoparticles. <i>ACS Catalysis</i> , 2012, 2, 2587-2595.	5.5	69
65	Ionic Liquid-Supported Pt Nanoparticles as Catalysts for Enantioselective Hydrogenation. <i>ACS Catalysis</i> , 2012, 2, 337-340.	5.5	39
66	Fundamental insights into the enantioselectivity of hydrogenations on cinchona-modified platinum and palladium. <i>Journal of Catalysis</i> , 2012, 289, 238-248.	3.1	59
67	Heterogeneous Asymmetric Hydrogenation of Prochiral Alkenoic Acid: Origin of Rate and Enantioselectivity Enhancement by Amine Addition. <i>ACS Catalysis</i> , 2012, 2, 464-467.	5.5	31
68	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.	5.5	40
69	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.	2.2	6
70	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.	4.8	8
71	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, 1646-1656.	1.6	50
72	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.	1.5	21

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73	Highly cross-linked imidazolium salt entrapped magnetic particles " preparation and applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 20728.	6.7	33
74	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, 8212-8216.	7.2	56
75	Efficient Solvent-Free Hydrogenation of Ketones over Flame-Prepared Bimetallic Pt-Pd/ZrO ₂ Catalysts. <i>ChemSusChem</i> , 2012, 5, 1190-1194.	3.6	11
76	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.	2.1	31
77	Potential of Gold Nanoparticles for Oxidation in Fine Chemical Synthesis. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2012, 3, 11-28.	3.3	51
78	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.	10.8	19
79	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.	10.8	16
80	Potential of ionic liquids as co-modifiers in asymmetric hydrogenation on platinum. <i>Journal of Molecular Catalysis A</i> , 2012, 357, 117-124.	4.8	10
81	Selective oxidation of benzyl alcohol in dense CO ₂ : Insight by phase behavior modeling. <i>Journal of Supercritical Fluids</i> , 2012, 63, 199-207.	1.6	12
82	Aerobic Epoxidation of Olefins Catalyzed by the Cobalt-Based Metal-Organic Framework STA-12(Co). <i>Chemistry - A European Journal</i> , 2012, 18, 887-898.	1.7	110
83	LuMPIS: Luciferase-Based MBP-Pull-Down Protein Interaction Screening System. <i>Methods in Molecular Biology</i> , 2012, 815, 265-275.	0.4	1
84	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.	1.5	6
85	Autobiography of Alfons Baiker. <i>Journal of Physical Chemistry C</i> , 2011, 115, 842-845.	1.5	1
86	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.	1.5	15
87	Surface Properties of Supported, Colloid-Derived Gold/Palladium Mono- and Bimetallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8195-8205.	1.5	30
88	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.	2.1	40
89	Reactions in "sacrificial" solvents. <i>Catalysis Science and Technology</i> , 2011, 1, 1572.	2.1	42
90	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, 19567-19569.	6.6	55

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91	Polymer-assisted synthesis of nanocrystalline copper-based metal-organic framework for amine oxidation. <i>Catalysis Communications</i> , 2011, 12, 602-605.	1.6	65
92	Ionic Liquids and Dense Carbon Dioxide: A Beneficial Biphasic System for Catalysis. <i>Chemical Reviews</i> , 2011, 111, 322-353.	23.0	273
93	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, 3921-3930.	6.6	97
94	Hydrogenation of acetophenone derivatives: Tuning the enantioselectivity via the metal-support interaction. <i>Journal of Catalysis</i> , 2011, 278, 94-101.	3.1	22
95	Multiple cycle reaction mechanism in the enantioselective hydrogenation of α,β,γ -trifluoromethyl ketones. <i>Journal of Catalysis</i> , 2011, 280, 104-115.	3.1	26
96	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.	3.1	179
97	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.	3.1	31
98	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.	3.1	58
99	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.	2.2	10
100	Flame Aerosol Synthesis of Metal Oxide Catalysts with Unprecedented Structural and Catalytic Properties. <i>ChemCatChem</i> , 2011, 3, 1234-1256.	1.8	73
101	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.	1.4	11
102	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.	1.3	26
103	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.	0.6	6
104	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.	10.8	12
105	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.	10.8	13
106	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.	3.1	16
107	Oxidative coupling of methane over Ca- and alkali metal-doped ThO ₂ . <i>Applied Catalysis A: General</i> , 2011, 391, 205-214.	2.2	23
108	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.	0.8	12

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109	Feasibility of Methyl Mercaptane as Probe Molecule for Supported Gold Nanoparticle Surface Area Determination. <i>Chimia</i> , 2010, 64, 191.	0.3	1
110	Development of a New Generation of Gold Catalysts for Amine Oxidation. <i>ChemCatChem</i> , 2010, 2, 666-673.	1.8	71
111	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.	3.1	125
112	Influence of support acid-base properties on the platinum-catalyzed enantioselective hydrogenation of activated ketones. <i>Journal of Catalysis</i> , 2010, 271, 115-124.	3.1	73
113	Single-step flame-made Pt/MgAl ₂ O ₄ - A NO _x storage-reduction catalyst with unprecedented dynamic behavior and high thermal stability. <i>Journal of Catalysis</i> , 2010, 271, 125-131.	3.1	28
114	Substrate-controlled adsorption of cinchonidine during enantioselective hydrogenation on platinum. <i>Journal of Catalysis</i> , 2010, 272, 140-150.	3.1	35
115	Structure of flame-made vanadia/silica and catalytic behavior in the oxidative dehydrogenation of propane. <i>Journal of Catalysis</i> , 2010, 274, 64-75.	3.1	68
116	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.	3.1	22
117	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, 2181-2192.	1.7	53
118	Mechanism of the Catalytic Deperoxidation of <i>tert</i> -Butylhydroperoxide with Cobalt(II) Acetylacetonate. <i>Chemistry - A European Journal</i> , 2010, 16, 13226-13235.	1.7	66
119	Asymmetric C-C Bond Formation Reaction with Pd: How to Favor Heterogeneous or Homogeneous Catalysis?. <i>Chemistry - A European Journal</i> , 2010, 16, 9658-9668.	1.7	14
120	Increasing the Brønsted Acidity of Flame-Derived Silica/Alumina up to Zeolitic Strength. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7776-7781.	7.2	93
121	A novel class of fluorinated cinchona alkaloids as surface modifiers for the enantioselective heterogeneous hydrogenation of α -ketoesters. <i>Journal of Molecular Catalysis A</i> , 2010, 327, 87-91.	4.8	28
122	Purification of ionic liquids by supercritical CO ₂ monitored by infrared spectroscopy. <i>Journal of Supercritical Fluids</i> , 2010, 55, 395-400.	1.6	18
123	MOF-5 based mixed-linker metal-organic frameworks: Synthesis, thermal stability and catalytic application. <i>Thermochimica Acta</i> , 2010, 499, 71-78.	1.2	142
124	Fine tuning the surface acid/base properties of single step flame-made Pt/alumina. <i>Applied Catalysis A: General</i> , 2010, 374, 48-57.	2.2	44
125	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.	10.8	38
126	Flame-made MgAl ₂ -xMxO 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.	10.8	35

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127	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.	2.2	9
128	Free energy surface of two- and three-dimensional transitions of Au 12 nanoclusters obtained by <i>ab initio</i> metadynamics. <i>Physical Review B</i> , 2010, 81, .	1.1	24
129	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, 4830-4833.	3.3	89
130	Protonation-Dependent Binding of Ruthenium Bipyridyl Complexes to the Anatase(101) Surface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8398-8404.	1.5	103
131	Insight into Fundamental, Overtone, and Combination IR Bands of Surface and Bulk Ba(NO ₃) ₂ by <i>Ab Initio</i> Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15042-15048.	1.5	8
132	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.	2.1	54
133	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.	1.3	40
134	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, 2111-2117.	1.2	26
135	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.	2.1	6
136	BINAP Adsorption on Palladium: A Combined Infrared Spectroscopy and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17836-17844.	1.5	10
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