Patricia Concepcin

List of Publications by Year in Descending Order

131 papers	9,831 citations	50 h-index	98 g-index
138 ext. papers	11,293 ext. citations	10.3 avg, IF	6.51 L-index

#	Paper	IF	Citations
131	Cu-Ga3+-doped wurtzite ZnO interface as driving force for enhanced methanol production in co-precipitated Cu/ZnO/Ga2O3 catalysts. *Journal of Catalysis*, **2022**, 407, 149-149	7.3	1
130	Enhanced Methanol Production over Non-promoted Cu□MgO□Al2O3 Materials with Ex-solved 2 nm Cu Particles: Insights from an Operando Spectroscopic Study. *ACS Catalysis*, **2022**, 12, 3845-3857	13.1	
129	Active and Regioselective Ru Single-Site Heterogeneous Catalysts for Alpha-Olefin Hydroformylation. *ACS Catalysis*, **2022**, 12, 4182-4193	13.1	3
128	Visible and NIR Light Assistance of the N Reduction to NH Catalyzed by Cs-promoted Ru Nanoparticles Supported on Strontium Titanate.. *ACS Catalysis*, **2022**, 12, 4938-4946	13.1	0
127	Design of Cobalt Fischer-Tropsch Catalysts for the Combined Production of Liquid Fuels and Olefin Chemicals from Hydrogen-Rich Syngas. *ACS Catalysis*, **2021**, 11, 4784-4798	13.1	13
126	Metalloenzyme-Inspired Ce-MOF Catalyst for Oxidative Halogenation Reactions. *ACS Applied Materials & Interfaces*, **2021**, 13, 31021-31030	9.5	3
125	In-Situ-Generated Active Hf-hydride in Zeolites for the Tandem N-Alkylation of Amines with Benzyl Alcohol. *ACS Catalysis*, **2021**, 11, 8049-8061	13.1	11
124	Tuning the Catalytic Performance of Cobalt Nanoparticles by Tungsten Doping for Efficient and Selective Hydrogenation of Quinolines under Mild Conditions. *ACS Catalysis*, **2021**, 11, 8197-8210	13.1	13
123	Recent advances in CO2 hydrogenation to value-added products □Current challenges and future directions. *Progress in Energy and Combustion Science*, **2021**, 85, 100905	33.6	31
122	Arene borylation through CH activation using Cu3(BTC)2 as heterogeneous catalyst. *Catalysis Today* , **2021**, 366, 212-217	5.3	3
121	Controlling the selectivity of bimetallic platinum□uthenium nanoparticles supported on N-doped graphene by adjusting their metal composition. *Catalysis Science and Technology*, **2021**, 11, 494-505	5.5	4
120	Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. *Catalysis Science and Technology*, **2021**, 11, 3353-3363	5.5	2
119	Unraveling a Biomass-Derived Multiphase Catalyst for the Dehydrogenative Coupling of Silanes with Alcohols under Aerobic Conditions. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 2912-2928	8.3	6
118	Evolution of the optimal catalytic systems for the oxidative dehydrogenation of ethane: The role of adsorption in the catalytic performance. *Journal of Catalysis*, **2021**,	7.3	3
117	Combined Spectroscopic and Computational Study of Nitrobenzene Activation on Non-Noble Metals-Based Mono- and Bimetallic Catalysts. *Nanomaterials*, **2021**, 11,	5.4	1
116	Oxidative dehydrogenation of ethane: catalytic and mechanistic aspects and future trends. *Chemical Society Reviews*, **2021**, 50, 4564-4605	58.5	30
115	Structural modulation and direct measurement of subnanometric bimetallic PtSn clusters confined in zeolites. *Nature Catalysis*, **2020**, 3, 628-638	36.5	71

114	Regioselective Generation of Single-Site Iridium Atoms and Their Evolution into Stabilized Subnanometric Iridium Clusters in MWW Zeolite. *Angewandte Chemie - International Edition*, **2020**, 59, 15695-15702	16.4	25
113	Synthesis of a hybrid Pd0/Pd-carbide/carbon catalyst material with high selectivity for hydrogenation reactions. *Journal of Catalysis*, **2020**, 389, 706-713	7.3	7
112	One-Pot Cooperation of Single-Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerization-Hydrosilylation Process. *Angewandte Chemie*, **2020**, 132, 5855-5864	3.6	10
111	Influence of oxophilic behavior of UiO-66(Ce) metal□organic framework with superior catalytic performance in Friedel-Crafts alkylation reaction. *Applied Organometallic Chemistry*, **2020**, 34, e5578	3.1	8
110	Insights into the Promotion with Ru of Co/TiO2 Fischer□Tropsch Catalysts: An In Situ Spectroscopic Study. *ACS Catalysis*, **2020**, 10, 6042-6057	13.1	20
109	One-Pot Cooperation of Single-Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerization-Hydrosilylation Process. *Angewandte Chemie - International Edition*, **2020**, 59, 5806-5815	16.4	41
108	Ligand-Functionalization-Controlled Activity of Metal-Organic Framework-Encapsulated Pt Nanocatalyst toward Activation of Water. *Nano Letters*, **2020**, 20, 426-432	11.5	17
107	MIL-101(Fe) as an active heterogeneous solid acid catalyst for the regioselective ring opening of epoxides by indoles. *Molecular Catalysis*, **2020**, 482, 110628	3.3	4
106	Pd supported on mixed metal oxide as an efficient catalyst for the reductive amination of bio-derived acetol to 2-methylpiperazine. *Catalysis Science and Technology*, **2020**, 10, 8049-8063	5.5	3
105	Influence of the ZrO2 Crystalline Phases on the Nature of Active Sites in PdCu/ZrO2 Catalysts for the Methanol Steam Reforming Reaction□An In Situ Spectroscopic Study. *Catalysts*, **2020**, 10, 1005	4	4
104	The nature of active Ni sites and the role of Al species in the oligomerization of ethylene on mesoporous Ni-Al-MCM-41 catalysts. *Applied Catalysis A: General*, **2020**, 608, 117831	5.1	3
103	Theoretical and Spectroscopic Evidence of the Dynamic Nature of Copper Active Sites in Cu-CHA Catalysts under Selective Catalytic Reduction (NH-SCR-NO) Conditions. *Journal of Physical Chemistry Letters*, **2020**, 11, 10060-10066	6.4	11
102	Metal-Specific Reactivity in Single-Atom Catalysts: CO Oxidation on 4d and 5d Transition Metals Atomically Dispersed on MgO. *Journal of the American Chemical Society*, **2020**, 142, 14890-14902	16.4	40
101	Atomic-level understanding on the evolution behavior of subnanometric Pt and Sn species during high-temperature treatments for generation of dense PtSn clusters in zeolites. *Journal of Catalysis*, **2020**, 391, 11-24	7.3	15
100	Continuous catalytic process for the selective dehydration of glycerol over Cu-based mixed oxide. *Journal of Catalysis*, **2020**, 385, 160-175	7.3	14
99	New trends in tailoring active sites in zeolite-based catalysts. *Chemical Society Reviews*, **2019**, 48, 1095-1149	46.5	192
98	A study of the oxidehydration of 1,2-propanediol to propanoic acid with bifunctional catalysts. *Applied Catalysis A: General*, **2019**, 582, 117102	5.1	3
97	Application of Infrared Spectroscopy in Catalysis: Impacts on Catalysts□Selectivity **2019**,		2

96	Tuning zirconia-supported metal catalysts for selective one-step hydrogenation of levoglucosenone. *Green Chemistry*, **2019**, 21, 4769-4785	10	9
95	The First Study on the Reactivity of Water Vapor in Metal-Organic Frameworks with Platinum Nanocrystals. *Angewandte Chemie - International Edition*, **2019**, 58, 11731-11736	16.4	14
94	Regioselective generation and reactivity control of subnanometric platinum clusters in zeolites for high-temperature catalysis. *Nature Materials*, **2019**, 18, 866-873	27	182
93	Determination of the Evolution of Heterogeneous Single Metal Atoms and Nanoclusters under Reaction Conditions: Which Are the Working Catalytic Sites?. *ACS Catalysis*, **2019**, 9, 10626-10639	13.1	100
92	Surface Lewis Acidity of Periphery Oxide Species as a General Kinetic Descriptor for CO2 Hydrogenation to Methanol on Supported Copper Nanoparticles. *ACS Catalysis*, **2019**, 9, 10409-10417	13.1	27
91	Chemicals from Biomass: Selective Synthesis of N-Substituted Furfuryl Amines by the One-Pot Direct Reductive Amination of Furanic Aldehydes. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6243-6250	8.3	34
90	Dynamic Structure and Subsurface Oxygen Formation of a Working Copper Catalyst under Methanol Steam Reforming Conditions: An in Situ Time-Resolved Spectroscopic Study. *ACS Catalysis*, **2019**, 9, 2922-2930	13.1	9
89	Spectroscopic Evidence and Density Functional Theory (DFT) Analysis of Low-Temperature Oxidation of Cu+ to Cu2+NOx in Cu-CHA Catalysts: Implications for the SCR-NOx Reaction Mechanism. *ACS Catalysis*, **2019**, 9, 2725-2738	13.1	33
88	Low-Temperature Catalytic NO Reduction with CO by Subnanometric Pt Clusters. *ACS Catalysis*, **2019**, 9, 11530-11541	13.1	38
87	Hydrothermal Synthesis of Ruthenium Nanoparticles with a Metallic Core and a Ruthenium Carbide Shell for Low-Temperature Activation of CO to Methane. *Journal of the American Chemical Society*, **2019**, 141, 19304-19311	16.4	47
86	Modulating the catalytic behavior of non-noble metal nanoparticles by inter-particle interaction for chemoselective hydrogenation of nitroarenes into corresponding azoxy or azo compounds. *Journal of Catalysis*, **2019**, 369, 312-323	7.3	26
85	Generation and Reactivity of Electron-Rich Carbenes on the Surface of Catalytic Gold Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 3215-3218	16.4	29
84	Evolution and stabilization of subnanometric metal species in confined space by in situ TEM. *Nature Communications*, **2018**, 9, 574	17.4	93
83	Sunlight-assisted hydrogenation of CO 2 into ethanol and C2+ hydrocarbons by sodium-promoted Co@C nanocomposites. *Applied Catalysis B: Environmental*, **2018**, 235, 186-196	21.8	70
82	Nature of Active Nickel Sites and Initiation Mechanism for Ethylene Oligomerization on Heterogeneous Ni-beta Catalysts. *ACS Catalysis*, **2018**, 8, 3903-3912	13.1	68
81	Cobalt Catalysts for Alkene Hydrosilylation under Aerobic Conditions without Dry Solvents or Additives. *European Journal of Inorganic Chemistry*, **2018**, 2018, 4867-4874	2.3	16
80	Influence of Terephthalic Acid Substituents on the Catalytic Activity of MIL-101(Cr) in Three Lewis Acid Catalyzed Reactions. *ChemCatChem*, **2017**, 9, 2506-2511	5.2	34
79	Enhanced Stability of Cu Clusters of Low Atomicity against Oxidation. Effect on the Catalytic Redox Process. *ACS Catalysis*, **2017**, 7, 3560-3568	13.1	38

78	The impact of support surface area on the SMSI decoration effect and catalytic performance for Fischer-Tropsch synthesis of Co-Ru/TiO 2 -anatase catalysts. *Catalysis Today*, **2017**, 296, 170-180	5.3	13
77	A new strategy to transform mono and bimetallic non-noble metal nanoparticles into highly active and chemoselective hydrogenation catalysts. *Journal of Catalysis*, **2017**, 350, 218-225	7.3	70
76	Room temperature silylation of alcohols catalyzed by metal organic frameworks. *Catalysis Science and Technology*, **2017**, 7, 2445-2449	5.5	9
75	Combined theoretical and spectroscopic mechanistic studies for improving activity and selectivity in heterogeneous catalysis. *Catalysis Today*, **2017**, 285, 166-178	5.3	10
74	Identification of Distinct Copper Species in Cu-CHA Samples Using NO as Probe Molecule. A Combined IR Spectroscopic and DFT Study. *Topics in Catalysis*, **2017**, 60, 1653-1663	2.3	15
73	Self-Organized Transformation from Hexagonal to Orthorhombic Bronze of Cs□Nb□V□O Mixed Oxides Prepared Hydrothermally. *Crystal Growth and Design*, **2017**, 17, 6320-6331	3.5	3
72	Mechanistic Investigation of the Catalyzed Cleavage for the Lignin β-O-4 Linkage: Implications for Vanillin and Vanillic Acid Formation. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9818-9825	8.3	50
71	One-Pot Selective Catalytic Synthesis of Pyrrolidone Derivatives from Ethyl Levulinate and Nitro Compounds. *ChemSusChem*, **2017**, 10, 119-128	8.3	41
70	Generation of subnanometric platinum with high stability during transformation of a 2D zeolite into□3D. *Nature Materials*, **2017**, 16, 132-138	27	376
69	TiO 2 polymorph dependent SMSI effect in Co-Ru/TiO 2 catalysts and its relevance to Fischer-Tropsch synthesis. *Catalysis Today*, **2017**, 289, 181-191	5.3	23
68	Structure-Reactivity Correlations in Vanadium-Containing Catalysts for One-Pot Glycerol Oxidehydration to Acrylic Acid. *ChemSusChem*, **2017**, 10, 234-244	8.3	19
67	A promoting effect of dilution of Pd sites due to gold surface segregation under reaction conditions on supported Pd□Au catalysts for the selective hydrogenation of 1,5-cyclooctadiene. *Catalysis Today*, **2016**, 259, 213-221	5.3	22
66	MIL-101 promotes the efficient aerobic oxidative desulfurization of dibenzothiophenes. *Green Chemistry*, **2016**, 18, 508-515	10	106
65	A heterogeneous mechanism for the catalytic decomposition of hydroperoxides and oxidation of alkanes over CeO2 nanoparticles: A combined theoretical and experimental study. *Journal of Catalysis*, **2016**, 344, 334-345	7.3	9
64	Nanocrystalline CeO2 as a Highly Active and Selective Catalyst for the Dehydration of Aldoximes to Nitriles and One-Pot Synthesis of Amides and Esters. *ACS Catalysis*, **2016**, 6, 4564-4575	13.1	23
63	Facile Synthesis of Surface-Clean Monodispersed CuOx Nanoparticles and Their Catalytic Properties for Oxidative Coupling of Alkynes. *ACS Catalysis*, **2016**, 6, 2211-2221	13.1	32
62	Heterogeneous oligomerization of ethylene to liquids on bifunctional Ni-based catalysts: The influence of support properties on nickel speciation and catalytic performance. *Catalysis Today*, **2016**, 277, 78-88	5.3	58
61	Dehydrogenative coupling of silanes with alcohols catalyzed by Cu3(BTC)2. *Chemical Communications*, **2016**, 52, 2725-8	5.8	27

60	In Situ Generation of Active Molybdenum Octahedral Clusters for Photocatalytic Hydrogen Production from Water. *ChemSusChem*, **2016**, 9, 1963-71	8.3	29
59	Non-noble metal catalysts for hydrogenation: A facile method for preparing Co nanoparticles covered with thin layered carbon. *Journal of Catalysis*, **2016**, 340, 1-9	7.3	135
58	Cobalt-Catalyzed Fischer Tropsch Synthesis: Chemical Nature of the Oxide Support as a Performance Descriptor. *ACS Catalysis*, **2015**, 5, 3323-3335	13.1	78
57	Stabilized naked sub-nanometric Cu clusters within a polymeric film catalyze C-N, C-C, C-O, C-S, and C-P bond-forming reactions. *Journal of the American Chemical Society*, **2015**, 137, 3894-900	16.4	51
56	Chemicals from Biomass: Chemoselective Reductive Amination of Ethyl Levulinate with Amines. *ACS Catalysis*, **2015**, 5, 5812-5821	13.1	70
55	Copper- and Vanadium-Catalyzed Oxidative Cleavage of Lignin using Dioxygen. *ChemSusChem*, **2015**, 8, 2106-13	8.3	104
54	Postsynthesis-Treated Iron-Based Metal-Organic Frameworks as Selective Catalysts for the Sustainable Synthesis of Nitriles. *ChemSusChem*, **2015**, 8, 3270-82	8.3	14
53	Multielement crystalline and pseudocrystalline oxides as efficient catalysts for the direct transformation of glycerol into acrylic acid. *ChemSusChem*, **2015**, 8, 398-406	8.3	42
52	Synthesis, characterization and reactivity of high hydrothermally stable Cu-SAPO-34 materials prepared by one-pot processes. *Journal of Catalysis*, **2014**, 314, 73-82	7.3	93
51	Gold-copper nanoalloys supported on TiO2 as photocatalysts for CO2 reduction by water. *Journal of the American Chemical Society*, **2014**, 136, 15969-76	16.4	430
50	Promoted NiO Catalysts for the Oxidative Dehydrogenation of Ethane. *Topics in Catalysis*, **2014**, 57, 1248-1255	2.3	33
49	Influence of lattice stability on hydrothermal deactivation of Cu-ZSM-5 and Cu-IM-5 zeolites for selective catalytic reduction of NOx by NH3. *Journal of Catalysis*, **2014**, 309, 477-490	7.3	88
48	Exceptional oxidation activity with size-controlled supported gold clusters of low atomicity. *Nature Chemistry*, **2013**, 5, 775-81	17.6	322
47	Silica supported copper and cerium oxide catalysts for ethyl acetate oxidation. *Journal of Colloid and Interface Science*, **2013**, 404, 155-60	9.3	17
46	Doped graphene as a metal-free carbocatalyst for the selective aerobic oxidation of benzylic hydrocarbons, cyclooctane and styrene. *Chemistry - A European Journal*, **2013**, 19, 7547-54	4.8	121
45	Methanol to olefins: activity and stability of nanosized SAPO-34 molecular sieves and control of selectivity by silicon distribution. *Physical Chemistry Chemical Physics*, **2013**, 15, 14670-80	3.6	99
44	Migration of Cu Ions in SAPO-34 and Its Impact on Selective Catalytic Reduction of NOx with NH3. *ACS Catalysis*, **2013**, 3, 2158-2161	13.1	73
43	The promotional effect of Sn-beta zeolites on platinum for the selective hydrogenation of unsaturated aldehydes. *Physical Chemistry Chemical Physics*, **2013**, 15, 12048-55	3.6	28

42	New bifunctional Ni-H-Beta catalysts for the heterogeneous oligomerization of ethylene. *Applied Catalysis A: General*, **2013**, 467, 509-518	5.1	94
41	Pore topology control of supported on mesoporous silicas copper and cerium oxide catalysts for ethyl acetate oxidation. *Microporous and Mesoporous Materials*, **2013**, 180, 156-161	5.3	17
40	Two alternative routes for 1,2-cyclohexanediol synthesis by means of green processes: Cyclohexene dihydroxylation and catechol hydrogenation. *Applied Catalysis A: General*, **2013**, 466, 21-31	5.1	18
39	The impact of pre-reduction thermal history on the metal surface topology and site-catalytic activity of Co/SiO2 Fischer-Tropsch catalysts. *Journal of Catalysis*, **2013**, 302, 37-48	7.3	53
38	Aerobic Oxidation of Sulfides to Sulfoxides Catalyzed by Gold/Manganese Oxides. *Bulletin of the Chemical Society of Japan*, **2013**, 86, 1412-1418	5.1	8
37	Nickel phosphide nanocatalysts for the chemoselective hydrogenation of alkynes. *Nano Today*, **2012**, 7, 21-28	17.9	96
36	Making C-C Bonds with Gold: Identification of Selective Gold Sites for Homo- and Cross-Coupling Reactions between Iodobenzene and Alkynes. *Journal of Physical Chemistry C*, **2012**, 116, 24855-24867	3.8	61
35	Glycerol oxidehydration into acrolein and acrylic acid over W-V-Nb-O bronzes with hexagonal structure. *Catalysis Today*, **2012**, 197, 58-65	5.3	67
34	Reconstruction of the carbon sp2 network in graphene oxide by low-temperature reaction with CO. *Journal of Materials Chemistry*, **2012**, 22, 51-56		24
33	Aerobic epoxidation of propene over silver (111) and (100) facet catalysts. *Journal of Catalysis*, **2012**, 292, 138-147	7.3	49
32	Oxidative dehydrogenation of ethane over NiO-CeO2 mixed oxides catalysts. *Catalysis Today*, **2012**, 180, 51-58	5.3	120
31	Shape-dependent catalytic activity of palladium nanoparticles embedded in SiO2 and TiO2. *Catalysis Today*, **2012**, 180, 59-67	5.3	22
30	Chemical instability of Cu3(BTC)2 by reaction with thiols. *Catalysis Communications*, **2011**, 12, 1018-1021	3.2	44
29	New insights into the role of the electronic properties of oxide promoters in Rh-catalyzed selective synthesis of oxygenates from synthesis gas. *Journal of Catalysis*, **2011**, 280, 274-288	7.3	57
28	Synthesis and stabilization of subnanometric gold oxide nanoparticles on multiwalled carbon nanotubes and their catalytic activity. *Journal of the American Chemical Society*, **2011**, 133, 10251-61	16.4	77
27	Heterolytic and heterotopic dissociation of hydrogen on ceria-supported gold nanoparticles. Combined inelastic neutron scattering and FT-IR spectroscopic study on the nature and reactivity of surface hydrogen species. *Chemical Science*, **2010**, 1, 731	9.4	80
26	Chemicals from biomass: Synthesis of glycerol carbonate by transesterification and carbonylation with urea with hydrotalcite catalysts. The role of acid-base pairs. *Journal of Catalysis*, **2010**, 269, 140-149	7.3	286
25	Gold-catalyzed phosgene-free synthesis of polyurethane precursors. *Angewandte Chemie - International Edition*, **2010**, 49, 1286-90	16.4	52

24	Mo□W-containing tetragonal tungsten bronzes through isomorphic substitution of molybdenum by tungsten. *Catalysis Today*, **2010**, 158, 162-169	5.3	18
23	Design of highly active and chemoselective bimetallic gold□platinum hydrogenation catalysts through kinetic and isotopic studies. *Journal of Catalysis*, **2009**, 265, 19-25	7.3	158
22	Cobalt particle size effects in Fischer□ropsch synthesis: structural and in situ spectroscopic characterisation on reverse micelle-synthesised Co/ITQ-2 model catalysts. *Journal of Catalysis*, **2009**, 266, 129-144	7.3	303
21	Reactivity in the confined spaces of zeolites: the interplay between spectroscopy and theory to develop structure-activity relationships for catalysis. *Physical Chemistry Chemical Physics*, **2009**, 11, 2876-84	3.6	74
20	Transforming nonselective into chemoselective metal catalysts for the hydrogenation of substituted nitroaromatics. *Journal of the American Chemical Society*, **2008**, 130, 8748-53	16.4	440
19	A different reaction pathway for the reduction of aromatic nitro compounds on gold catalysts. *Angewandte Chemie - International Edition*, **2007**, 46, 7266-9	16.4	445
18	Cover Picture: A Different Reaction Pathway for the Reduction of Aromatic Nitro Compounds on Gold Catalysts (Angew. Chem. Int. Ed. 38/2007). *Angewandte Chemie - International Edition*, **2007**, 46, 7133-7133	16.4	3
17	Gold supported on a biopolymer (chitosan) catalyzes the regioselective hydroamination of alkynes. *Journal of Catalysis*, **2007**, 251, 39-47	7.3	123
16	Peculiarities of Sn-Beta and potential industrial applications. *Catalysis Today*, **2007**, 121, 39-44	5.3	50
15	A Molecular mechanism for the chemoselective hydrogenation of substituted nitroaromatics with nanoparticles of gold on TiO2 catalysts: a cooperative effect between gold and the support. *Journal of the American Chemical Society*, **2007**, 129, 16230-7	16.4	404
14	Stabilization of cationic gold species on Au/CeO2 catalysts under working conditions. *Applied Catalysis A: General*, **2006**, 307, 42-45	5.1	79
13	Determination of the catalytically active oxidation Lewis acid sites in Sn-beta zeolites, and their optimisation by the combination of theoretical and experimental studies. *Journal of Catalysis*, **2005**, 234, 111-118	7.3	237
12	A collaborative effect between gold and a support induces the selective oxidation of alcohols. *Angewandte Chemie - International Edition*, **2005**, 44, 4066-9	16.4	913
11	Anionic organic guests incorporated in zeolites: adsorption and reactivity of a Meisenheimer complex in faujasites. *Chemistry - A European Journal*, **2005**, 11, 6491-502	4.8	4
10	Characterization and catalytic properties of cobalt supported on delaminated ITQ-6 and ITQ-2 zeolites for the Fischer□ropsch synthesis reaction. *Journal of Catalysis*, **2004**, 228, 321-332	7.3	85
9	Nanocrystalline CeO2 increases the activity of Au for CO oxidation by two orders of magnitude. *Angewandte Chemie - International Edition*, **2004**, 43, 2538-40	16.4	743
8	Preparation, characterization and reactivity of V- and/or Co-containing AlPO-18 materials (VCoAPO-18) in the oxidative dehydrogenation of ethane. *Microporous and Mesoporous Materials*, **2004**, 67, 215-227	5.3	25
7	The role of metal sites during the coupled hydrogenation and ring opening of tetralin on bifunctional Pt(Ir)/USY catalysts. *Applied Catalysis A: General*, **2004**, 267, 111-119	5.1	79

6	Chemoselective hydrogenation catalysts: Pt on mesostructured CeO2 nanoparticles embedded within ultrathin layers of SiO2 binder. *Journal of the American Chemical Society*, **2004**, 126, 5523-32	16.4	134
5	Novel synthesis of a vanadium–cobalt aluminophosphate molecular sieve of AEI structure (VCoAPO-18) and its catalytic behaviour for the ethane oxidation. *Catalysis Communications*, **2001**, 2, 363-367	3.2	9
4	Magnetic resonance studies on V-containing, and V,Mg-containing AFI aluminophosphates. *Microporous and Mesoporous Materials*, **2000**, 39, 219-228	5.3	25
3	Low-Temperature CO Adsorption on V-Containing Aluminophosphates: An FTIR Study. *Journal of Catalysis*, **1999**, 184, 172-179	7.3	22
2	Oxidative Dehydrogenation of Ethane on Vanadium-Containing Aluminophosphates with AFI Structure. *Collection of Czechoslovak Chemical Communications*, **1998**, 63, 1869-1883		7
1	A Career in Catalysis: Avelino Corma. *ACS Catalysis*,7054-7123	13.1	1