

# Patricia Concepcin

## List of Publications by Citations

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131  
papers

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50  
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98  
g-index

138  
ext. papers

11,293  
ext. citations

10.3  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
131	A collaborative effect between gold and a support induces the selective oxidation of alcohols. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 4066-9	16.4	913
130	Nanocrystalline CeO <sub>2</sub> increases the activity of Au for CO oxidation by two orders of magnitude. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2538-40	16.4	743
129	A different reaction pathway for the reduction of aromatic nitro compounds on gold catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7266-9	16.4	445
128	Transforming nonselective into chemoselective metal catalysts for the hydrogenation of substituted nitroaromatics. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8748-53	16.4	440
127	Gold-copper nanoalloys supported on TiO <sub>2</sub> as photocatalysts for CO <sub>2</sub> reduction by water. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 15969-76	16.4	430
126	A Molecular mechanism for the chemoselective hydrogenation of substituted nitroaromatics with nanoparticles of gold on TiO <sub>2</sub> catalysts: a cooperative effect between gold and the support. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 16230-7	16.4	404
125	Generation of subnanometric platinum with high stability during transformation of a 2D zeolite into $\gamma$ -BD. <i>Nature Materials</i> , <b>2017</b> , 16, 132-138	27	376
124	Exceptional oxidation activity with size-controlled supported gold clusters of low atomicity. <i>Nature Chemistry</i> , <b>2013</b> , 5, 775-81	17.6	322
123	Cobalt particle size effects in Fischer-Tropsch synthesis: structural and in situ spectroscopic characterisation on reverse micelle-synthesised Co/ITQ-2 model catalysts. <i>Journal of Catalysis</i> , <b>2009</b> , 266, 129-144	7.3	303
122	Chemicals from biomass: Synthesis of glycerol carbonate by transesterification and carbonylation with urea with hydrotalcite catalysts. The role of acid-base pairs. <i>Journal of Catalysis</i> , <b>2010</b> , 269, 140-149	7.3	286
121	Determination of the catalytically active oxidation Lewis acid sites in Sn-beta zeolites, and their optimisation by the combination of theoretical and experimental studies. <i>Journal of Catalysis</i> , <b>2005</b> , 234, 111-118	7.3	237
120	New trends in tailoring active sites in zeolite-based catalysts. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 1095-1189	18.9	192
119	Regioselective generation and reactivity control of subnanometric platinum clusters in zeolites for high-temperature catalysis. <i>Nature Materials</i> , <b>2019</b> , 18, 866-873	27	182
118	Design of highly active and chemoselective bimetallic gold-platinum hydrogenation catalysts through kinetic and isotopic studies. <i>Journal of Catalysis</i> , <b>2009</b> , 265, 19-25	7.3	158
117	Non-noble metal catalysts for hydrogenation: A facile method for preparing Co nanoparticles covered with thin layered carbon. <i>Journal of Catalysis</i> , <b>2016</b> , 340, 1-9	7.3	135
116	Chemoselective hydrogenation catalysts: Pt on mesostructured CeO <sub>2</sub> nanoparticles embedded within ultrathin layers of SiO <sub>2</sub> binder. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5523-32	16.4	134
115	Gold supported on a biopolymer (chitosan) catalyzes the regioselective hydroamination of alkynes. <i>Journal of Catalysis</i> , <b>2007</b> , 251, 39-47	7.3	123

114	Doped graphene as a metal-free carbocatalyst for the selective aerobic oxidation of benzylic hydrocarbons, cyclooctane and styrene. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 7547-54	4.8	121
113	Oxidative dehydrogenation of ethane over NiO $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> mixed oxides catalysts. <i>Catalysis Today</i> , <b>2012</b> , 180, 51-58	5.3	120
112	MIL-101 promotes the efficient aerobic oxidative desulfurization of dibenzothiophenes. <i>Green Chemistry</i> , <b>2016</b> , 18, 508-515	10	106
111	Copper- and Vanadium-Catalyzed Oxidative Cleavage of Lignin using Dioxygen. <i>ChemSusChem</i> , <b>2015</b> , 8, 2106-13	8.3	104
110	Determination of the Evolution of Heterogeneous Single Metal Atoms and Nanoclusters under Reaction Conditions: Which Are the Working Catalytic Sites?. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10626-10639	13.1	100
109	Methanol to olefins: activity and stability of nanosized SAPO-34 molecular sieves and control of selectivity by silicon distribution. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 14670-80	3.6	99
108	Nickel phosphide nanocatalysts for the chemoselective hydrogenation of alkynes. <i>Nano Today</i> , <b>2012</b> , 7, 21-28	17.9	96
107	New bifunctional Ni $\beta$ -Beta catalysts for the heterogeneous oligomerization of ethylene. <i>Applied Catalysis A: General</i> , <b>2013</b> , 467, 509-518	5.1	94
106	Evolution and stabilization of subnanometric metal species in confined space by in situ TEM. <i>Nature Communications</i> , <b>2018</b> , 9, 574	17.4	93
105	Synthesis, characterization and reactivity of high hydrothermally stable Cu-SAPO-34 materials prepared by one-pot processes. <i>Journal of Catalysis</i> , <b>2014</b> , 314, 73-82	7.3	93
104	Influence of lattice stability on hydrothermal deactivation of Cu-ZSM-5 and Cu-IM-5 zeolites for selective catalytic reduction of NO <sub>x</sub> by NH <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2014</b> , 309, 477-490	7.3	88
103	Characterization and catalytic properties of cobalt supported on delaminated ITQ-6 and ITQ-2 zeolites for the Fischer-Tropsch synthesis reaction. <i>Journal of Catalysis</i> , <b>2004</b> , 228, 321-332	7.3	85
102	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. <i>Chemical Science</i> , <b>2010</b> , 1, 731	9.4	80
101	Stabilization of cationic gold species on Au/CeO <sub>2</sub> catalysts under working conditions. <i>Applied Catalysis A: General</i> , <b>2006</b> , 307, 42-45	5.1	79
100	The role of metal sites during the coupled hydrogenation and ring opening of tetralin on bifunctional Pt(Ir)/USY catalysts. <i>Applied Catalysis A: General</i> , <b>2004</b> , 267, 111-119	5.1	79
99	Cobalt-Catalyzed Fischer-Tropsch Synthesis: Chemical Nature of the Oxide Support as a Performance Descriptor. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3323-3335	13.1	78
98	Synthesis and stabilization of subnanometric gold oxide nanoparticles on multiwalled carbon nanotubes and their catalytic activity. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10251-61	16.4	77
97	Reactivity in the confined spaces of zeolites: the interplay between spectroscopy and theory to develop structure-activity relationships for catalysis. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 2876-84	3.6	74

96	Migration of Cu Ions in SAPO-34 and Its Impact on Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>ACS Catalysis</i> , <b>2013</b> , 3, 2158-2161	13.1	73
95	Structural modulation and direct measurement of subnanometric bimetallic PtSn clusters confined in zeolites. <i>Nature Catalysis</i> , <b>2020</b> , 3, 628-638	36.5	71
94	A new strategy to transform mono and bimetallic non-noble metal nanoparticles into highly active and chemoselective hydrogenation catalysts. <i>Journal of Catalysis</i> , <b>2017</b> , 350, 218-225	7.3	70
93	Chemicals from Biomass: Chemoselective Reductive Amination of Ethyl Levulinate with Amines. <i>ACS Catalysis</i> , <b>2015</b> , 5, 5812-5821	13.1	70
92	Sunlight-assisted hydrogenation of CO <sub>2</sub> into ethanol and C <sub>2</sub> + hydrocarbons by sodium-promoted Co@C nanocomposites. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 235, 186-196	21.8	70
91	Nature of Active Nickel Sites and Initiation Mechanism for Ethylene Oligomerization on Heterogeneous Ni-beta Catalysts. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3903-3912	13.1	68
90	Glycerol oxidehydration into acrolein and acrylic acid over W/NbD <sub>2</sub> bronzes with hexagonal structure. <i>Catalysis Today</i> , <b>2012</b> , 197, 58-65	5.3	67
89	Making C-C Bonds with Gold: Identification of Selective Gold Sites for Homo- and Cross-Coupling Reactions between Iodobenzene and Alkynes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 24855-24867	3.8	61
88	Heterogeneous oligomerization of ethylene to liquids on bifunctional Ni-based catalysts: The influence of support properties on nickel speciation and catalytic performance. <i>Catalysis Today</i> , <b>2016</b> , 277, 78-88	5.3	58
87	New insights into the role of the electronic properties of oxide promoters in Rh-catalyzed selective synthesis of oxygenates from synthesis gas. <i>Journal of Catalysis</i> , <b>2011</b> , 280, 274-288	7.3	57
86	The impact of pre-reduction thermal history on the metal surface topology and site-catalytic activity of Co/SiO <sub>2</sub> Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , <b>2013</b> , 302, 37-48	7.3	53
85	Gold-catalyzed phosgene-free synthesis of polyurethane precursors. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1286-90	16.4	52
84	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. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3894-900	16.4	51
83	Mechanistic Investigation of the Catalyzed Cleavage for the Lignin EO-4 Linkage: Implications for Vanillin and Vanillic Acid Formation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 9818-9825	8.3	50
82	Peculiarities of Sn-Beta and potential industrial applications. <i>Catalysis Today</i> , <b>2007</b> , 121, 39-44	5.3	50
81	Aerobic epoxidation of propene over silver (111) and (100) facet catalysts. <i>Journal of Catalysis</i> , <b>2012</b> , 292, 138-147	7.3	49
80	Hydrothermal Synthesis of Ruthenium Nanoparticles with a Metallic Core and a Ruthenium Carbide Shell for Low-Temperature Activation of CO to Methane. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19304-19311	16.4	47
79	Chemical instability of Cu <sub>3</sub> (BTC) <sub>2</sub> by reaction with thiols. <i>Catalysis Communications</i> , <b>2011</b> , 12, 1018-1021	3.2	44

78	Multielement crystalline and pseudocrystalline oxides as efficient catalysts for the direct transformation of glycerol into acrylic acid. <i>ChemSusChem</i> , <b>2015</b> , 8, 398-406	8.3	42
77	One-Pot Selective Catalytic Synthesis of Pyrrolidone Derivatives from Ethyl Levulinate and Nitro Compounds. <i>ChemSusChem</i> , <b>2017</b> , 10, 119-128	8.3	41
76	One-Pot Cooperation of Single-Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerization-Hydrosilylation Process. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5806-5815	16.4	41
75	Metal-Specific Reactivity in Single-Atom Catalysts: CO Oxidation on 4d and 5d Transition Metals Atomically Dispersed on MgO. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 14890-14902	16.4	40
74	Enhanced Stability of Cu Clusters of Low Atomicity against Oxidation. Effect on the Catalytic Redox Process. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3560-3568	13.1	38
73	Low-Temperature Catalytic NO Reduction with CO by Subnanometric Pt Clusters. <i>ACS Catalysis</i> , <b>2019</b> , 9, 11530-11541	13.1	38
72	Influence of Terephthalic Acid Substituents on the Catalytic Activity of MIL-101(Cr) in Three Lewis Acid Catalyzed Reactions. <i>ChemCatChem</i> , <b>2017</b> , 9, 2506-2511	5.2	34
71	Chemicals from Biomass: Selective Synthesis of N-Substituted Furfuryl Amines by the One-Pot Direct Reductive Amination of Furanic Aldehydes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6243-6250	8.3	34
70	Promoted NiO Catalysts for the Oxidative Dehydrogenation of Ethane. <i>Topics in Catalysis</i> , <b>2014</b> , 57, 1248-1255	8.3	33
69	Spectroscopic Evidence and Density Functional Theory (DFT) Analysis of Low-Temperature Oxidation of Cu <sup>+</sup> to Cu <sup>2+</sup> +NO <sub>x</sub> in Cu-CHA Catalysts: Implications for the SCR-NO <sub>x</sub> Reaction Mechanism. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2725-2738	13.1	33
68	Facile Synthesis of Surface-Clean Monodispersed CuOx Nanoparticles and Their Catalytic Properties for Oxidative Coupling of Alkynes. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2211-2221	13.1	32
67	Recent advances in CO <sub>2</sub> hydrogenation to value-added products [Current challenges and future directions. <i>Progress in Energy and Combustion Science</i> , <b>2021</b> , 85, 100905	33.6	31
66	Oxidative dehydrogenation of ethane: catalytic and mechanistic aspects and future trends. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 4564-4605	58.5	30
65	Generation and Reactivity of Electron-Rich Carbenes on the Surface of Catalytic Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3215-3218	16.4	29
64	In Situ Generation of Active Molybdenum Octahedral Clusters for Photocatalytic Hydrogen Production from Water. <i>ChemSusChem</i> , <b>2016</b> , 9, 1963-71	8.3	29
63	The promotional effect of Sn-beta zeolites on platinum for the selective hydrogenation of $\alpha$ -unsaturated aldehydes. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12048-55	3.6	28
62	Dehydrogenative coupling of silanes with alcohols catalyzed by Cu <sub>3</sub> (BTC) <sub>2</sub> . <i>Chemical Communications</i> , <b>2016</b> , 52, 2725-8	5.8	27
61	Surface Lewis Acidity of Periphery Oxide Species as a General Kinetic Descriptor for CO <sub>2</sub> Hydrogenation to Methanol on Supported Copper Nanoparticles. <i>ACS Catalysis</i> , <b>2019</b> , 9, 10409-10417	13.1	27

60	Modulating the catalytic behavior of non-noble metal nanoparticles by inter-particle interaction for chemoselective hydrogenation of nitroarenes into corresponding azoxy or azo compounds. <i>Journal of Catalysis</i> , <b>2019</b> , 369, 312-323	7.3	26
59	Regioselective Generation of Single-Site Iridium Atoms and Their Evolution into Stabilized Subnanometric Iridium Clusters in MWW Zeolite. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15695-15702	16.4	25
58	Preparation, characterization and reactivity of V- and/or Co-containing AlPO-18 materials (VCoAPO-18) in the oxidative dehydrogenation of ethane. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 67, 215-227	5.3	25
57	Magnetic resonance studies on V-containing, and V,Mg-containing AFI aluminophosphates. <i>Microporous and Mesoporous Materials</i> , <b>2000</b> , 39, 219-228	5.3	25
56	Reconstruction of the carbon sp <sup>2</sup> network in graphene oxide by low-temperature reaction with CO. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 51-56		24
55	Nanocrystalline CeO <sub>2</sub> as a Highly Active and Selective Catalyst for the Dehydration of Aldoximes to Nitriles and One-Pot Synthesis of Amides and Esters. <i>ACS Catalysis</i> , <b>2016</b> , 6, 4564-4575	13.1	23
54	TiO <sub>2</sub> polymorph dependent SMSI effect in Co-Ru/TiO <sub>2</sub> catalysts and its relevance to Fischer-Tropsch synthesis. <i>Catalysis Today</i> , <b>2017</b> , 289, 181-191	5.3	23
53	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. <i>Catalysis Today</i> , <b>2016</b> , 259, 213-221	5.3	22
52	Shape-dependent catalytic activity of palladium nanoparticles embedded in SiO <sub>2</sub> and TiO <sub>2</sub> . <i>Catalysis Today</i> , <b>2012</b> , 180, 59-67	5.3	22
51	Low-Temperature CO Adsorption on V-Containing Aluminophosphates: An FTIR Study. <i>Journal of Catalysis</i> , <b>1999</b> , 184, 172-179	7.3	22
50	Insights into the Promotion with Ru of Co/TiO <sub>2</sub> Fischer-Tropsch Catalysts: An In Situ Spectroscopic Study. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6042-6057	13.1	20
49	Structure-Reactivity Correlations in Vanadium-Containing Catalysts for One-Pot Glycerol Oxidehydration to Acrylic Acid. <i>ChemSusChem</i> , <b>2017</b> , 10, 234-244	8.3	19
48	Two alternative routes for 1,2-cyclohexanediol synthesis by means of green processes: Cyclohexene dihydroxylation and catechol hydrogenation. <i>Applied Catalysis A: General</i> , <b>2013</b> , 466, 21-31	5.1	18
47	MoW-containing tetragonal tungsten bronzes through isomorphic substitution of molybdenum by tungsten. <i>Catalysis Today</i> , <b>2010</b> , 158, 162-169	5.3	18
46	Silica supported copper and cerium oxide catalysts for ethyl acetate oxidation. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 404, 155-60	9.3	17
45	Pore topology control of supported on mesoporous silicas copper and cerium oxide catalysts for ethyl acetate oxidation. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 180, 156-161	5.3	17
44	Ligand-Functionalization-Controlled Activity of Metal-Organic Framework-Encapsulated Pt Nanocatalyst toward Activation of Water. <i>Nano Letters</i> , <b>2020</b> , 20, 426-432	11.5	17
43	Cobalt Catalysts for Alkene Hydrosilylation under Aerobic Conditions without Dry Solvents or Additives. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 4867-4874	2.3	16

42	Identification of Distinct Copper Species in Cu-CHA Samples Using NO as Probe Molecule. A Combined IR Spectroscopic and DFT Study. <i>Topics in Catalysis</i> , <b>2017</b> , 60, 1653-1663	2.3	15
41	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. <i>Journal of Catalysis</i> , <b>2020</b> , 391, 11-24	7.3	15
40	The First Study on the Reactivity of Water Vapor in Metal-Organic Frameworks with Platinum Nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11731-11736	16.4	14
39	Postsynthesis-Treated Iron-Based Metal-Organic Frameworks as Selective Catalysts for the Sustainable Synthesis of Nitriles. <i>ChemSusChem</i> , <b>2015</b> , 8, 3270-82	8.3	14
38	Continuous catalytic process for the selective dehydration of glycerol over Cu-based mixed oxide. <i>Journal of Catalysis</i> , <b>2020</b> , 385, 160-175	7.3	14
37	The impact of support surface area on the SMSI decoration effect and catalytic performance for Fischer-Tropsch synthesis of Co-Ru/TiO <sub>2</sub> -anatase catalysts. <i>Catalysis Today</i> , <b>2017</b> , 296, 170-180	5.3	13
36	Design of Cobalt Fischer-Tropsch Catalysts for the Combined Production of Liquid Fuels and Olefin Chemicals from Hydrogen-Rich Syngas. <i>ACS Catalysis</i> , <b>2021</b> , 11, 4784-4798	13.1	13
35	Tuning the Catalytic Performance of Cobalt Nanoparticles by Tungsten Doping for Efficient and Selective Hydrogenation of Quinolines under Mild Conditions. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8197-8210	13.1	13
34	Theoretical and Spectroscopic Evidence of the Dynamic Nature of Copper Active Sites in Cu-CHA Catalysts under Selective Catalytic Reduction (NH-SCR-NO) Conditions. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 10060-10066	6.4	11
33	In-Situ-Generated Active Hf-hydride in Zeolites for the Tandem N-Alkylation of Amines with Benzyl Alcohol. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8049-8061	13.1	11
32	Combined theoretical and spectroscopic mechanistic studies for improving activity and selectivity in heterogeneous catalysis. <i>Catalysis Today</i> , <b>2017</b> , 285, 166-178	5.3	10
31	One-Pot Cooperation of Single-Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerization-Hydrosilylation Process. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5855-5864	3.6	10
30	Room temperature silylation of alcohols catalyzed by metal organic frameworks. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2445-2449	5.5	9
29	A heterogeneous mechanism for the catalytic decomposition of hydroperoxides and oxidation of alkanes over CeO <sub>2</sub> nanoparticles: A combined theoretical and experimental study. <i>Journal of Catalysis</i> , <b>2016</b> , 344, 334-345	7.3	9
28	Tuning zirconia-supported metal catalysts for selective one-step hydrogenation of levoglucosenone. <i>Green Chemistry</i> , <b>2019</b> , 21, 4769-4785	10	9
27	Novel synthesis of a vanadium-cobalt aluminophosphate molecular sieve of AEI structure (VCoAPO-18) and its catalytic behaviour for the ethane oxidation. <i>Catalysis Communications</i> , <b>2001</b> , 2, 363-367	3.2	9
26	Dynamic Structure and Subsurface Oxygen Formation of a Working Copper Catalyst under Methanol Steam Reforming Conditions: An in Situ Time-Resolved Spectroscopic Study. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2922-2930	13.1	9
25	Influence of oxophilic behavior of UiO-66(Ce) metal-organic framework with superior catalytic performance in Friedel-Crafts alkylation reaction. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5578	3.1	8

24	Aerobic Oxidation of Sulfides to Sulfoxides Catalyzed by Gold/Manganese Oxides. <i>Bulletin of the Chemical Society of Japan</i> , <b>2013</b> , 86, 1412-1418	5.1	8
23	Synthesis of a hybrid Pd <sub>0</sub> /Pd-carbide/carbon catalyst material with high selectivity for hydrogenation reactions. <i>Journal of Catalysis</i> , <b>2020</b> , 389, 706-713	7.3	7
22	Oxidative Dehydrogenation of Ethane on Vanadium-Containing Aluminophosphates with AFI Structure. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1998</b> , 63, 1869-1883		7
21	Unraveling a Biomass-Derived Multiphase Catalyst for the Dehydrogenative Coupling of Silanes with Alcohols under Aerobic Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 2912-2928	8.3	6
20	Anionic organic guests incorporated in zeolites: adsorption and reactivity of a Meisenheimer complex in faujasites. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 6491-502	4.8	4
19	MIL-101(Fe) as an active heterogeneous solid acid catalyst for the regioselective ring opening of epoxides by indoles. <i>Molecular Catalysis</i> , <b>2020</b> , 482, 110628	3.3	4
18	Influence of the ZrO <sub>2</sub> Crystalline Phases on the Nature of Active Sites in PdCu/ZrO <sub>2</sub> Catalysts for the Methanol Steam Reforming Reaction: An In Situ Spectroscopic Study. <i>Catalysts</i> , <b>2020</b> , 10, 1005	4	4
17	Controlling the selectivity of bimetallic platinum-ruthenium nanoparticles supported on N-doped graphene by adjusting their metal composition. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 494-505	5.5	4
16	Self-Organized Transformation from Hexagonal to Orthorhombic Bronze of Cs <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> Mixed Oxides Prepared Hydrothermally. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 6320-6331	3.5	3
15	A study of the oxidative hydration of 1,2-propanediol to propanoic acid with bifunctional catalysts. <i>Applied Catalysis A: General</i> , <b>2019</b> , 582, 117102	5.1	3
14	Cover Picture: A Different Reaction Pathway for the Reduction of Aromatic Nitro Compounds on Gold Catalysts (Angew. Chem. Int. Ed. 38/2007). <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7133-7133	16.4	3
13	Pd supported on mixed metal oxide as an efficient catalyst for the reductive amination of bio-derived acetol to 2-methylpiperazine. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 8049-8063	5.5	3
12	The nature of active Ni sites and the role of Al species in the oligomerization of ethylene on mesoporous Ni-Al-MCM-41 catalysts. <i>Applied Catalysis A: General</i> , <b>2020</b> , 608, 117831	5.1	3
11	Metalloenzyme-Inspired Ce-MOF Catalyst for Oxidative Halogenation Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31021-31030	9.5	3
10	Arene borylation through C-H activation using Cu <sub>3</sub> (BTC) <sub>2</sub> as heterogeneous catalyst. <i>Catalysis Today</i> , <b>2021</b> , 366, 212-217	5.3	3
9	Evolution of the optimal catalytic systems for the oxidative dehydrogenation of ethane: The role of adsorption in the catalytic performance. <i>Journal of Catalysis</i> , <b>2021</b> ,	7.3	3
8	Active and Regioselective Ru Single-Site Heterogeneous Catalysts for Alpha-Olefin Hydroformylation. <i>ACS Catalysis</i> , <b>2022</b> , 12, 4182-4193	13.1	3
7	Application of Infrared Spectroscopy in Catalysis: Impacts on Catalysts Selectivity <b>2019</b> ,		2



6	Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 3353-3363	5.5	2
5	Cu-Ga <sup>3+</sup> -doped wurtzite ZnO interface as driving force for enhanced methanol production in co-precipitated Cu/ZnO/Ga <sub>2</sub> O <sub>3</sub> catalysts. <i>Journal of Catalysis</i> , <b>2022</b> , 407, 149-149	7.3	1
4	Combined Spectroscopic and Computational Study of Nitrobenzene Activation on Non-Noble Metals-Based Mono- and Bimetallic Catalysts. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
3	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123	13.1	1
2	Visible and NIR Light Assistance of the N Reduction to NH Catalyzed by Cs-promoted Ru Nanoparticles Supported on Strontium Titanate.. <i>ACS Catalysis</i> , <b>2022</b> , 12, 4938-4946	13.1	0
1	Enhanced Methanol Production over Non-promoted Cu/MgO/Al <sub>2</sub> O <sub>3</sub> Materials with Ex-solved 2 nm Cu Particles: Insights from an Operando Spectroscopic Study. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3845-3857	13.1	