Javier PÃ©rez-RamÃrez

List of Publications by Year
in descending order

554 papers	46,395 citations	1294 109 h-index	2812 191 g-index
632 all docs	632 docs citations	632 times ranked	27642 citing authors

#	Article	IF	Citations
1	Pore size determination in modified micro- and mesoporous materials. Pitfalls and limitations in gas adsorption data analysis. Microporous and Mesoporous Materials, 2003, 60, 1-17.	2.2	1,773
2	Hierarchical zeolites: enhanced utilisation of microporous crystals in catalysis by advances in materials design. Chemical Society Reviews, 2008, 37, 2530.	18.7	1,601
3	Status and perspectives of CO2 conversion into fuels and chemicals by catalytic, photocatalytic and electrocatalytic processes. Energy and Environmental Science, 2013, 6, 3112.	15.6	1,475
4	A Stable Singleâ€Site Palladium Catalyst for Hydrogenations. Angewandte Chemie - International Edition, 2015, 54, 11265-11269.	7.2	779
5	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation. Angewandte Chemie - International Edition, 2016, 55, 6261-6265.	7.2	769
6	Single-Atom Catalysts across the Periodic Table. Chemical Reviews, 2020, 120, 11703-11809.	23.0	690
7	Direct Demonstration of Enhanced Diffusion in Mesoporous ZSM-5 Zeolite Obtained via Controlled Desilication. Journal of the American Chemical Society, 2007, 129, 355-360.	6.6	616
8	Design of hierarchical zeolite catalysts by desilication. Catalysis Science and Technology, 2011, 1, 879.	2.1	576
9	Desilication: on the controlled generation of mesoporosity in MFI zeolites. Journal of Materials Chemistry, 2006, 16, 2121-2131.	6.7	519
10	Status and prospects in higher alcohols synthesis from syngas. Chemical Society Reviews, 2017, 46, 1358-1426.	18.7	513
11	Formation and control of N2O in nitric acid production. Applied Catalysis B: Environmental, 2003, 44, 117-151.	10.8	509
12	Coreâ€“shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO₂. Chemical Society Reviews, 2020, 49, 2937-3004.	18.7	479
13	Mechanism of Hierarchical Porosity Development in MFI Zeolites by Desilication: The Role of Aluminium as a Pore-Directing Agent. Chemistry - A European Journal, 2005, 11, 4983-4994.	1.7	473
14	A heterogeneous single-atom palladium catalyst surpassing homogeneous systems for Suzuki coupling. Nature Nanotechnology, 2018, 13, 702-707.	15.6	471
15	Optimal Aluminum-Assisted Mesoporosity Development in MFI Zeolites by Desilication. Journal of Physical Chemistry B, 2004, 108, 13062-13065.	1.2	463
16	Creation of Hollow Zeolite Architectures by Controlled Desilication of Al-Zoned ZSM-5 Crystals. Journal of the American Chemical Society, 2005, 127, 10792-10793.	6.6	452
17	Zeolite Catalysts with Tunable Hierarchy Factor by Poreâ€Growth Moderators. Advanced Functional Materials, 2009, 19, 3972-3979.	7.8	446
18	Key role of chemistry versus bias in electrocatalytic oxygen evolution. Nature, 2020, 587, 408-413.	13.7	405

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19	Tailored crystalline microporous materials by post-synthesis modification. Chemical Society Reviews, 2013, 42, 263-290.	18.7	388
20	Electrocatalytic Reduction of Nitrogen: From Haber-Bosch to Ammonia Artificial Leaf. CheM, 2019, 5, 263-283.	5.8	339
21	On the introduction of intracrystalline mesoporosity in zeolites upon desilication in alkaline medium. Microporous and Mesoporous Materials, 2004, 69, 29-34.	2.2	329
22	Towards sustainable fuels and chemicals through the electrochemical reduction of CO₂: lessons from water electrolysis. Green Chemistry, 2015, 17, 5114-5130.	4.6	288
23	Hierarchical Y and USY Zeolites Designed by Postâ€Synthetic Strategies. Advanced Functional Materials, 2012, 22, 916-928.	7.8	283
24	Mesoporosity development in ZSM-5 zeolite upon optimized desilication conditions in alkaline medium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 241, 53-58.	2.3	279
25	Quantification of enhanced acid site accessibility in hierarchical zeolites â€" The accessibility index. Journal of Catalysis, 2009, 264, 11-14.	3.1	279
26	Scalable two-step annealing method for preparing ultra-high-density single-atom catalyst libraries. Nature Nanotechnology, 2022, 17, 174-181.	15.6	279
27	Mesoporous ZSM-5 zeolite catalysts prepared by desilication with organic hydroxides and comparison with NaOH leaching. Applied Catalysis A: General, 2009, 364, 191-198.	2.2	273
28	Strategies to break linear scaling relationships. Nature Catalysis, 2019, 2, 971-976.	16.1	273
29	Synthesis, characterisation, and catalytic evaluation of hierarchical faujasite zeolites: milestones, challenges, and future directions. Chemical Society Reviews, 2016, 45, 3331-3352.	18.7	271
30	Mesopore quality determines the lifetime of hierarchically structured zeolite catalysts. Nature Communications, 2014, 5, .	5.8	270
31	The Multifaceted Reactivity of Singleâ€Atom Heterogeneous Catalysts. Angewandte Chemie - International Edition, 2018, 57, 15316-15329.	7.2	261
32	Atomic-scale engineering of indium oxide promotion by palladium for methanol production via CO2 hydrogenation. Nature Communications, 2019, 10, 3377.	5.8	261
33	Advances in the Design of Nanostructured Catalysts for Selective Hydrogenation. ChemCatChem, 2016, 8, 21-33.	1.8	260
34	Halogen-Mediated Conversion of Hydrocarbons to Commodities. Chemical Reviews, 2017, 117, 4182-4247.	23.0	260
35	Evolution of isomorphously substituted iron zeolites during activation: comparison of Fe-beta and Fe-ZSM-5. Journal of Catalysis, 2005, 232, 318-334.	3.1	258
36	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. Advanced Functional Materials, 2017, 27, 1605785.	7.8	249

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37	From powder to technical body: the undervalued science of catalyst scale up. Chemical Society Reviews, 2013, 42, 6094.	18.7	244
38	Hierarchical ZSMâ€5 Zeolites in Shapeâ€Selective Xylene Isomerization: Role of Mesoporosity and Acid Site Speciation. Chemistry - A European Journal, 2010, 16, 6224-6233.	1.7	239
39	Catalytic processing of plastic waste on the rise. CheM, 2021, 7, 1487-1533.	5.8	236
40	Desilication Mechanism Revisited: Highly Mesoporous Allâ€Silica Zeolites Enabled Through Poreâ€Directing Agents. Chemistry - A European Journal, 2011, 17, 1137-1147.	1.7	235
41	Visualization of hierarchically structured zeolite bodies from macro to nano length scales. Nature Chemistry, 2012, 4, 825-831.	6.6	234
42	Reduction of N2O with CO over FeMFI zeolites: influence of the preparation method on the iron species and catalytic behavior. Journal of Catalysis, 2004, 223, 13-27.	3.1	230
43	Full Compositional Flexibility in the Preparation of Mesoporous MFI Zeolites by Desilication. Journal of Physical Chemistry C, 2011, 115, 14193-14203.	1.5	230
44	Mesoporous beta zeolite obtained by desilication. Microporous and Mesoporous Materials, 2008, 114, 93-102.	2.2	229
45	Structureâ€“performance descriptors and the role of Lewis acidity in the methanol-to-propylene process. Nature Chemistry, 2018, 10, 804-812.	6.6	221
46	InÂsitu investigation of the thermal decomposition of Coâ€“Al hydrotalcite in different atmospheres. Journal of Materials Chemistry, 2001, 11, 821-830.	6.7	218
47	Ceria in Hydrogenation Catalysis: High Selectivity in the Conversion of Alkynes to Olefins. Angewandte Chemie - International Edition, 2012, 51, 8620-8623.	7.2	218
48	Mechanism and microkinetics of methanol synthesis via CO2 hydrogenation on indium oxide. Journal of Catalysis, 2018, 361, 313-321.	3.1	216
49	Transforming Energy with Single-Atom Catalysts. Joule, 2019, 3, 2897-2929.	11.7	216
50	Aldol Condensations Over Reconstructed Mg-Al Hydrotalcites: Structure-Activity Relationships Related to the Rehydration Method. Chemistry - A European Journal, 2005, 11, 728-739.	1.7	215
51	Decoupling mesoporosity formation and acidity modification in ZSM-5 zeolites by sequential desilicationâ€“dealumination. Microporous and Mesoporous Materials, 2005, 87, 153-161.	2.2	214
52	Merging Single-Atom-Dispersed Silver and Carbon Nitride to a Joint Electronic System <i>via</i> Copolymerization with Silver Tricyanomethanide. ACS Nano, 2016, 10, 3166-3175.	7.3	213
53	Preparation, Characterization, and Performance of FeZSM-5 for the Selective Oxidation of Benzene to Phenol with N2O. Journal of Catalysis, 2000, 195, 287-297.	3.1	211
54	Alkaline-mediated mesoporous mordenite zeolites for acid-catalyzed conversionsâ˜†. Journal of Catalysis, 2007, 251, 21-27.	3.1	211

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55	Nanoscale engineering of catalytic materials for sustainable technologies. Nature Nanotechnology, 2021, 16, 129-139.	15.6	210
56	Sulfur-Modified Copper Catalysts for the Electrochemical Reduction of Carbon Dioxide to Formate. ACS Catalysis, 2018, 8, 837-844.	5.5	209
57	Structural analysis of hierarchically organized zeolites. Nature Communications, 2015, 6, 8633.	5.8	206
58	Opposite Face Sensitivity of CeO₂ in Hydrogenation and Oxidation Catalysis. Angewandte Chemie - International Edition, 2014, 53, 12069-12072.	7.2	199
59	Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. Journal of Catalysis, 2002, 207, 113-126.	3.1	197
60	The six-flow reactor technology A review on fast catalyst screening and kinetic studies. Catalysis Today, 2000, 60, 93-109.	2.2	194
61	Critical appraisal of mesopore characterization by adsorption analysis. Applied Catalysis A: General, 2004, 268, 121-125.	2.2	194
62	Tailored Mesoporosity Development in Zeolite Crystals by Partial Detemplation and Desilication. Advanced Functional Materials, 2009, 19, 164-172.	7.8	194
63	Scalable Roomâ€Temperature Conversion of Copper(II) Hydroxide into HKUSTâ€1 (Cu₃(btc)₂). Advanced Materials, 2013, 25, 1052-1057.	11.1	189
64	Design of Local Atomic Environments in Singleâ€Atom Electrocatalysts for Renewable Energy Conversions. Advanced Materials, 2021, 33, e2003075.	11.1	187
65	Performance, structure, and mechanism of CeO2 in HCl oxidation to Cl2. Journal of Catalysis, 2012, 286, 287-297.	3.1	185
66	Interplay between carbon monoxide, hydrides, and carbides in selective alkyne hydrogenation on palladium. Journal of Catalysis, 2010, 273, 92-102.	3.1	182
67	Selective ensembles in supported palladium sulfide nanoparticles for alkyne semi-hydrogenation. Nature Communications, 2018, 9, 2634.	5.8	180
68	Sustainable chlorine recycling via catalysed HCl oxidation: from fundamentals to implementation. Energy and Environmental Science, 2011, 4, 4786.	15.6	179
69	Single atom catalysis: a decade of stunning progress and the promise for a bright future. Nature Communications, 2020, 11, 4302.	5.8	179
70	Desilication of ferrierite zeolite for porosity generation and improved effectiveness in polyethylene pyrolysis. Journal of Catalysis, 2009, 265, 170-180.	3.1	177
71	Role of Zirconia in Indium Oxide-Catalyzed CO₂Hydrogenation to Methanol. ACS Catalysis, 2020, 10, 1133-1145.	5.5	177
72	Design of Lewis-acid centres in zeolitic matrices for the conversion of renewables. Chemical Society Reviews, 2015, 44, 7025-7043.	18.7	175

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73	Enhanced Reduction of CO₂ to CO over Cuâ€“In Electrocatalysts: Catalyst Evolution Is the Key. ACS Catalysis, 2016, 6, 6265-6274.	5.5	170
74	Mechanism of HCl oxidation (Deacon process) over RuO2. Journal of Catalysis, 2008, 255, 29-39.	3.1	169
75	Steam-activated FeMFI zeolites. Evolution of iron species and activity in direct N2O decomposition. Journal of Catalysis, 2003, 214, 33-45.	3.1	167
76	Origin of the superior hydrogenation selectivity of gold nanoparticles in alkyne + alkene mixtures: Triple- versus double-bond activation. Journal of Catalysis, 2007, 247, 383-386.	3.1	167
77	Biobased Chemicals from Conception toward Industrial Reality: Lessons Learned and To Be Learned. ACS Catalysis, 2012, 2, 1487-1499.	5.5	163
78	Effects of Binders on the Performance of Shaped Hierarchical MFI Zeolites in Methanol-to-Hydrocarbons. ACS Catalysis, 2014, 4, 2409-2417.	5.5	163
79	Biomass valorisation over metal-based solid catalysts from nanoparticles to single atoms. Chemical Society Reviews, 2020, 49, 3764-3782.	18.7	163
80	Environmental and economical perspectives of a glycerol biorefinery. Energy and Environmental Science, 2018, 11, 1012-1029.	15.6	162
81	Alkaline Posttreatment of MFI Zeolites. From Accelerated Screening to Scale-up. Industrial & Engineering Chemistry Research, 2007, 46, 4193-4201.	1.8	161
82	Plant-to-planet analysis of CO₂-based methanol processes. Energy and Environmental Science, 2019, 12, 3425-3436.	15.6	160
83	NO-Assisted N2O Decomposition over Fe-Based Catalysts: Effects of Gas-Phase Composition and Catalyst Constitution. Journal of Catalysis, 2002, 208, 211-223.	3.1	156
84	Partial hydrogenation of propyne over copper-based catalysts and comparison with nickel-based analogues. Journal of Catalysis, 2010, 269, 80-92.	3.1	155
85	Cooperative Effects in Ternary Cuâˆ’Niâˆ’Fe Catalysts Lead to Enhanced Alkene Selectivity in Alkyne Hydrogenation. Journal of the American Chemical Society, 2010, 132, 4321-4327.	6.6	150
86	In situ Fourier transform infrared and laser Raman spectroscopic study of the thermal decomposition of Coâ€“Al and Niâ€“Al hydrotalcites. Vibrational Spectroscopy, 2001, 27, 75-88.	1.2	149
87	Building Blocks for High Performance in Electrocatalytic CO₂ Reduction: Materials, Optimization Strategies, and Device Engineering. Journal of Physical Chemistry Letters, 2017, 8, 3933-3944.	2.1	147
88	Mesopore Formation in USY and Beta Zeolites by Base Leaching: Selection Criteria and Optimization of Pore-Directing Agents. Crystal Growth and Design, 2012, 12, 3123-3132.	1.4	144
89	Volcano Trend in Electrocatalytic CO₂ Reduction Activity over Atomically Dispersed Metal Sites on Nitrogen-Doped Carbon. ACS Catalysis, 2019, 9, 10426-10439.	5.5	142
90	From the Lindlar Catalyst to Supported Ligandâ€Modified Palladium Nanoparticles: Selectivity Patterns and Accessibility Constraints in the Continuousâ€Flow Threeâ€Phase Hydrogenation of Acetylenic Compounds. Chemistry - A European Journal, 2014, 20, 5926-5937.	1.7	141

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91	Mesoporous ZSM-22 zeolite obtained by desilication: peculiarities associated with crystal morphology and aluminium distribution. CrystEngComm, 2011, 13, 3408.	1.3	140
92	New and revisited insights into the promotion of methanol synthesis catalysts by CO2. Catalysis Science and Technology, 2013, 3, 3343.	2.1	139
93	Environmental and economic assessment of lactic acid production from glycerol using cascade bio- and chemocatalysis. Energy and Environmental Science, 2015, 8, 558-567.	15.6	134
94	Molecular understanding of alkyne hydrogenation for the design of selective catalysts. Dalton Transactions, 2010, 39, 8412.	1.6	133
95	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. National Science Review, 2018, 5, 642-652.	4.6	132
96	Active site structure sensitivity in N2O conversion over FeMFI zeolites. Journal of Catalysis, 2003, 218, 234-238.	3.1	131
97	Evolution, achievements, and perspectives of the TAP technique. Catalysis Today, 2007, 121, 160-169.	2.2	130
98	A density functional theory study of the â€˜mythicâ€™ Lindlar hydrogenation catalyst. Theoretical Chemistry Accounts, 2011, 128, 663-673.	0.5	130
99	Hierarchical FAUâ€•and LTAâ€•Type Zeolites by Postâ€•Synthetic Design: A New Generation of Highly Efficient Base Catalysts. Advanced Functional Materials, 2013, 23, 1923-1934.	7.8	125
100	Memory Effect of Activated Mgâ€"Al Hydrotalcite: In Situ XRD Studies during Decomposition and Gas-Phase Reconstruction. Chemistry - A European Journal, 2007, 13, 870-878.	1.7	124
101	Nanostructuring unlocks high performance of platinum single-atom catalysts for stable vinyl chloride production. Nature Catalysis, 2020, 3, 376-385.	16.1	122
102	Selective Homogeneous and Heterogeneous Gold Catalysis with Alkynes and Alkenes: Similar Behavior, Different Origin. ChemPhysChem, 2008, 9, 1624-1629.	1.0	119
103	Ammonia Dehydrogenation over Platinum-Group Metal Surfaces. Structure, Stability, and Reactivity of Adsorbed NHxSpecies. Journal of Physical Chemistry C, 2007, 111, 860-868.	1.5	118
104	DFT Characterization of Adsorbed NHx Species on Pt(100) and Pt(111) Surfaces. Journal of Physical Chemistry B, 2005, 109, 18061-18069.	1.2	116
105	Visualizing the Crystal Structure and Locating the Catalytic Activity of Microâ€•and Mesoporous ZSMâ€5 Zeolite Crystals by Using In Situ Optical and Fluorescence Microscopy. Chemistry - A European Journal, 2008, 14, 1718-1725.	1.7	116
106	Solid-State Chemistry of Cuprous Delafossites: Synthesis and Stability Aspects. Chemistry of Materials, 2013, 25, 4423-4435.	3.2	114
107	Molecular-Level Understanding of CeO₂ as a Catalyst for Partial Alkyne Hydrogenation. Journal of Physical Chemistry C, 2014, 118, 5352-5360.	1.5	112
108	Reactivity descriptors for ceria in catalysis. Applied Catalysis B: Environmental, 2016, 197, 299-312.	10.8	112

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109	An integrated approach to Deacon chemistry on RuO2-based catalysts. Journal of Catalysis, 2012, 285, 273-284.	3.1	111
110	Hydroisomerization of Emerging Renewable Hydrocarbons using Hierarchical Pt/Hâ€ZSMâ€22 Catalyst. ChemSusChem, 2013, 6, 421-425.	3.6	111
111	Design of Single Gold Atoms on Nitrogenâ€Doped Carbon for Molecular Recognition in Alkyne Semiâ€Hydrogenation. Angewandte Chemie - International Edition, 2019, 58, 504-509.	7.2	111
112	Superior Mass Transfer Properties of Technical Zeolite Bodies with Hierarchical Porosity. Advanced Functional Materials, 2014, 24, 209-219.	7.8	108
113	Descriptors for High-Performance Nitrogen-Doped Carbon Catalysts in Acetylene Hydrochlorination. ACS Catalysis, 2018, 8, 1114-1121.	5.5	108
114	Atomâ€byâ€Atom Resolution of Structureâ€"Function Relations over Lowâ€Nuclearity Metal Catalysts. Angewandte Chemie - International Edition, 2019, 58, 8724-8729.	7.2	108
115	Superior performance of ex-framework FeZSM-5 in direct N2O decomposition in tail-gases from nitric acid plants. Chemical Communications, 2001, , 693-694.	2.2	107
116	Pt(100)-Catalyzed Ammonia Oxidation Studied by DFT: Mechanism and Microkinetics. Journal of Physical Chemistry C, 2008, 112, 13554-13562.	1.5	107
117	Long-chain hydrocarbons by CO2 electroreduction using polarized nickel catalysts. Nature Catalysis, 2022, 5, 545-554.	16.1	107
118	Highly Selective Lewis Acid Sites in Desilicated MFI Zeolites for Dihydroxyacetone Isomerization to Lactic Acid. ChemSusChem, 2013, 6, 831-839.	3.6	105
119	Porosityâ€"Acidity Interplay in Hierarchical ZSMâ€5 Zeolites for Pyrolysis Oil Valorization to Aromatics. ChemSusChem, 2015, 8, 3283-3293.	3.6	105
120	Ex-framework FeZSM-5 for control of N2O in tail-gases. Catalysis Today, 2002, 76, 55-74.	2.2	104
121	Palladium Nanoparticles Supported on Magnetic Carbonâ€Coated Cobalt Nanobeads: Highly Active and Recyclable Catalysts for Alkene Hydrogenation. Advanced Functional Materials, 2014, 24, 2020-2027.	7.8	102
122	Biomass valorisation over polyoxometalate-based catalysts. Green Chemistry, 2021, 23, 18-36.	4.6	101
123	Active iron sites associated with the reaction mechanism of N2O conversions over steam-activated FeMFI zeolites. Journal of Catalysis, 2004, 227, 512-522.	3.1	100
124	Prospects of N2O emission regulations in the European fertilizer industry. Applied Catalysis B: Environmental, 2007, 70, 31-35.	10.8	100
125	Modeling the high-temperature catalytic partial oxidation of methane over platinum gauze: Detailed gas-phase and surface chemistries coupled with 3D flow field simulations. Applied Catalysis A: General, 2006, 303, 166-176.	2.2	99
126	Interdependence between porosity, acidity, and catalytic performance in hierarchical ZSM-5 zeolites prepared by post-synthetic modification. Journal of Catalysis, 2013, 308, 398-407.	3.1	99

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127	Hierarchical Sn-MFI zeolites prepared by facile top-down methods for sugar isomerisation. Catalysis Science and Technology, 2014, 4, 2302.	2.1	99
128	Green Synthesis of Hierarchical Metalâ€“Organic Framework/Wood Functional Composites with Superior Mechanical Properties. Advanced Science, 2020, 7, 1902897.	5.6	99
129	NO Adsorption on Ex-Framework [Fe,X]MFI Catalysts: Novel IR Bands and Evaluation of Assignments. Catalysis Letters, 2002, 80, 129-138.	1.4	97
130	Highly active SO2-resistant ex-framework FeMFI catalysts for direct N2O decomposition. Applied Catalysis B: Environmental, 2002, 35, 227-234.	10.8	96
131	Transient mechanistic study of the gas-phase HCl oxidation to Cl2 on bulk and supported RuO2 catalysts. Journal of Catalysis, 2010, 276, 141-151.	3.1	95
132	Influence of crystal size and probe molecule on diffusion in hierarchical ZSM-5 zeolites prepared by desilication. Microporous and Mesoporous Materials, 2012, 148, 115-121.	2.2	95
133	Surface and Pore Structure Assessment of Hierarchical MFI Zeolites by Advanced Water and Argon Sorption Studies. Journal of Physical Chemistry C, 2012, 116, 18816-18823.	1.5	94
134	The role of BrÃ¸nsted acidity in the SCR of NO over Fe-MFI catalysts. Microporous and Mesoporous Materials, 2008, 111, 124-133.	2.2	93
135	Hierarchical Silicoaluminophosphates by Postsynthetic Modification: Influence of Topology, Composition, and Silicon Distribution. Chemistry of Materials, 2014, 26, 4552-4562.	3.2	91
136	Catalyst design for natural-gas upgrading through oxybromination chemistry. Nature Chemistry, 2016, 8, 803-809.	6.6	91
137	Nanostructure of nickel-promoted indium oxide catalysts drives selectivity in CO2 hydrogenation. Nature Communications, 2021, 12, 1960.	5.8	90
138	Structural promotion and stabilizing effect of Mg in the catalytic decomposition of nitrous oxide over calcined hydrotalcite-like compounds. Applied Catalysis B: Environmental, 1999, 23, 59-72.	10.8	88
139	Silver Nanoparticles for Olefin Production: New Insights into the Mechanistic Description of Propyne Hydrogenation. ChemCatChem, 2013, 5, 3750-3759.	1.8	88
140	Study of alkaline-doping agents on the performance of reconstructed Mgâ€“Al hydrotalcites in aldol condensations. Applied Catalysis A: General, 2005, 281, 191-198.	2.2	87
141	Solventâ€Mediated Reconstruction of the Metalâ€“Organic Framework HKUSTâ€1 (Cu₃(BTC)₂). Advanced Functional Materials, 2014, 24, 3855-3865.	7.8	87
142	Sustainability footprints of a renewable carbon transition for the petrochemical sector within planetary boundaries. One Earth, 2021, 4, 565-583.	3.6	87
143	Heading to Distributed Electrocatalytic Conversion of Small Abundant Molecules into Fuels, Chemicals, and Fertilizers. Joule, 2019, 3, 2602-2621.	11.7	86
144	In situ surface coverage analysis of RuO2-catalysed HCl oxidation reveals the entropic origin of compensation in heterogeneous catalysis. Nature Chemistry, 2012, 4, 739-745.	6.6	85

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145	Activated takovite catalysts for partial hydrogenation of ethyne, propyne, and propadiene. Journal of Catalysis, 2008, 259, 85-95.	3.1	84
146	Properties and Functions of Hierarchical Ferrierite Zeolites Obtained by Sequential Post-Synthesis Treatments. Chemistry of Materials, 2010, 22, 4679-4689.	3.2	84
147	Expanding the Horizons of Hierarchical Zeolites: Beyond Laboratory Curiosity towards Industrial Realization. ChemCatChem, 2011, 3, 1731-1734.	1.8	84
148	Mesoporous zeolites as enzyme carriers: Synthesis, characterization, and application in biocatalysis. Catalysis Today, 2011, 168, 28-37.	2.2	84
149	Impact of Pore Connectivity on the Design of Longâ€Lived Zeolite Catalysts. Angewandte Chemie - International Edition, 2015, 54, 1591-1594.	7.2	84
150	Prospectives for bio-oil upgrading via esterification over zeolite catalysts. Catalysis Today, 2014, 235, 176-183.	2.2	83
151	Tailoring the framework composition of carbon nitride to improve the catalytic efficiency of the stabilised palladium atoms. Journal of Materials Chemistry A, 2017, 5, 16393-16403.	5.2	83
152	Nanoplatelet-based reconstructed hydrotalcites: towards more efficient solid base catalysts in aldol condensations. Chemical Communications, 2005, , 1453-1455.	2.2	82
153	Evidence of the vital role of the pore network on various catalytic conversions of N2O over Fe-silicalite and Fe-SBA-15 with the same iron constitution. Applied Catalysis B: Environmental, 2006, 62, 244-254.	10.8	82
154	Semihydrogenation of Acetylene on Indium Oxide: Proposed Singleâ€Ensemble Catalysis. Angewandte Chemie - International Edition, 2017, 56, 10755-10760.	7.2	82
155	Hydroisomerization and hydrocracking of linear and multibranched long model alkanes on hierarchical Pt/ZSM-22 zeolite. Catalysis Today, 2013, 218-219, 135-142.	2.2	81
156	Towards a Sustainable Manufacture of Hierarchical Zeolites. ChemSusChem, 2014, 7, 753-764.	3.6	81
157	Structure and Reactivity of Supported Hybrid Platinum Nanoparticles for the Flow Hydrogenation of Functionalized Nitroaromatics. ACS Catalysis, 2015, 5, 3767-3778.	5.5	81
158	Extending Accurate Time Distribution and Timeliness Capabilities Over the Air to Enable Future Wireless Industrial Automation Systems. Proceedings of the IEEE, 2019, 107, 1132-1152.	16.4	81
159	Periodic DFT Study of the Structural and Electronic Properties of Bulk CoAl2O4Spinel. Journal of Physical Chemistry B, 2006, 110, 988-995.	1.2	80
160	Shaped RuO₂/SnO₂â€“Al₂O₃ Catalyst for Largeâ€Scale Stable Cl₂ Production by HCl Oxidation. ChemCatChem, 2011, 3, 657-660.	1.8	80
161	Deactivation mechanisms of tin-zeolites in biomass conversions. Green Chemistry, 2016, 18, 1249-1260.	4.6	80
162	Selectivity-directing factors of ammonia oxidation over PGM gauzes in the Temporal Analysis of Products reactor: Primary interactions of NH3 and O2. Journal of Catalysis, 2004, 227, 90-100.	3.1	78

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163	Gas-Phase Oxidation of Glycerol to Dihydroxyacetone over Tailored Iron Zeolites. ACS Catalysis, 2015, 5, 1453-1461.	5.5	78
164	Zinc-Rich Copper Catalysts Promoted by Gold for Methanol Synthesis. ACS Catalysis, 2015, 5, 5607-5616.	5.5	78
165	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation. Angewandte Chemie, 2016, 128, 6369-6373.	1.6	78
166	Hybrid Palladium Nanoparticles for Direct Hydrogen Peroxide Synthesis: The Key Role of the Ligand. Angewandte Chemie - International Edition, 2017, 56, 1775-1779.	7.2	78
167	Atomically precise control in the design of low-nuclearity supported metal catalysts. Nature Reviews Materials, 2021, 6, 969-985.	23.3	78
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