Javier PÃ©rez-RamÃ- rez

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	Hierarchical Zeolites Overcome all Obstacles: Next Stop Industrial Implementation. Chimia, 2022, 67, 327.	0.3	29
2	Scalable two-step annealing method for preparing ultra-high-density single-atom catalyst libraries. Nature Nanotechnology, 2022, 17, 174-181.	15.6	279
3	Synthesis of Florol via Prins cyclization over heterogeneous catalysts. Journal of Catalysis, 2022, 405, 288-302.	3.1	3
4	Atomic Pd-promoted ZnZrO solid solution catalyst for CO2 hydrogenation to methanol. Applied Catalysis B: Environmental, 2022, 304, 120994.	10.8	59
5	Ten years of Catalysis Science & Technology. Catalysis Science and Technology, 2022, 12, 352-353.	2.1	0
6	Redispersion strategy for high-loading carbon-supported metal catalysts with controlled nuclearity. Journal of Materials Chemistry A, 2022, 10, 5953-5961.	5.2	16
7	Generalizing Performance Equations in Heterogeneous Catalysis from Hybrid Data and Statistical Learning. ACS Catalysis, 2022, 12, 1581-1594.	5.5	6
8	Mechanistic routes toward C₃ products in copper-catalysed CO₂ electroreduction. Catalysis Science and Technology, 2022, 12, 409-417.	2.1	24
9	Natural Wood-Based Catalytic Membrane Microreactors for Continuous Hydrogen Generation. ACS Applied Materials & Interfaces, 2022, 14, 8417-8426.	4.0	16
10	Ceriaâ€Supported Gold Nanoparticles as a Superior Catalyst for Nitrous Oxide Production via Ammonia Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	13
11	Controlled Formation of Dimers and Spatially Isolated Atoms in Bimetallic Auâ€Ru Catalysts via Carbonâ€Host Functionalization. Small, 2022, 18, e2200224.	5.2	9
12	Flame Spray Pyrolysis as a Synthesis Platform to Assess Metal Promotion in In₂O₃â€Catalyzed CO₂ Hydrogenation. Advanced Energy Materials, 2022, 12, .	10.2	34
13	Automated Image Analysis for Single-Atom Detection in Catalytic Materials by Transmission Electron Microscopy. Journal of the American Chemical Society, 2022, 144, 8018-8029.	6.6	33
14	Catalyst: A step forward for PVC manufacture from natural gas. CheM, 2022, 8, 883-885.	5.8	7
15	RÃ¼cktitelbild: Ceriaâ€Supported Gold Nanoparticles as a Superior Catalyst for Nitrous Oxide Production via Ammonia Oxidation (Angew. Chem. 19/2022). Angewandte Chemie, 2022, 134, .	1.6	0
16	Single-atom heterogeneous catalysts for sustainable organic synthesis. Trends in Chemistry, 2022, 4, 264-276.	4.4	27
17	ZnO-Promoted Inverse ZrO₂â€"Cu Catalysts for CO₂-Based Methanol Synthesis under Mild Conditions. ACS Sustainable Chemistry and Engineering, 2022, 10, 81-90.	3.2	12
18	Recent Progress in Materials Exploration for Thermocatalytic, Photocatalytic, and Integrated Photothermocatalytic CO₂â€toâ€Fuel Conversion. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	38

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19	Performance descriptors of nanostructured metal catalysts for acetylene hydrochlorination. Nature Nanotechnology, 2022, 17, 606-612.	15.6	39
20	A generalized machine learning framework to predict the space-time yield of methanol from thermocatalytic CO2 hydrogenation. Applied Catalysis B: Environmental, 2022, 315, 121530.	10.8	53
21	Long-chain hydrocarbons by CO2 electroreduction using polarized nickel catalysts. Nature Catalysis, 2022, 5, 545-554.	16.1	107
22	Assessing the environmental benefit of palladium-based single-atom heterogeneous catalysts for Sonogashira coupling. Green Chemistry, 2022, 24, 6879-6888.	4.6	10
23	Elucidation of radical- and oxygenate-driven paths in zeolite-catalysed conversion of methanol and methyl chloride to hydrocarbons. Nature Catalysis, 2022, 5, 605-614.	16.1	32
24	Activity differences of rutile and anatase TiO2 polymorphs in catalytic HBr oxidation. Catalysis Today, 2021, 369, 221-226.	2.2	6
25	Biomass valorisation over polyoxometalate-based catalysts. Green Chemistry, 2021, 23, 18-36.	4.6	101
26	Quantification of Redox Sites during Catalytic Propane Oxychlorination by Operando EPR Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 3596-3602.	7.2	14
27	Design of Local Atomic Environments in Singleâ€Atom Electrocatalysts for Renewable Energy Conversions. Advanced Materials, 2021, 33, e2003075.	11.1	187
28	Nanoscale engineering of catalytic materials for sustainable technologies. Nature Nanotechnology, 2021, 16, 129-139.	15.6	210
29	Quantification of Redox Sites during Catalytic Propane Oxychlorination by Operando EPR Spectroscopy. Angewandte Chemie, 2021, 133, 3640-3646.	1.6	6
30	Innentitelbild: Quantification of Redox Sites during Catalytic Propane Oxychlorination by Operando EPR Spectroscopy (Angew. Chem. 7/2021). Angewandte Chemie, 2021, 133, 3354-3354.	1.6	0
31	Status and prospects of the decentralised valorisation of natural gas into energy and energy carriers. Chemical Society Reviews, 2021, 50, 2984-3012.	18.7	40
32	Sustainable Synthesis of Bimetallic Single Atom Goldâ€Based Catalysts with Enhanced Durability in Acetylene Hydrochlorination. Small, 2021, 17, e2004599.	5.2	25
33	Microfabrication Enables Quantification of Interfacial Activity in Thermal Catalysis. Small Methods, 2021, 5, 2001231.	4.6	2
34	Upscaling Effects on Alkali Metalâ€Grafted Ultrastable Y Zeolite Extrudates for Modeled Catalytic Deoxygenation of Bioâ€oils. ChemCatChem, 2021, 13, 1951-1965.	1.8	7
35	Nanostructure of nickel-promoted indium oxide catalysts drives selectivity in CO2 hydrogenation. Nature Communications, 2021, 12, 1960.	5.8	90
36	Sustainability footprints of a renewable carbon transition for the petrochemical sector within planetary boundaries. One Earth, 2021, 4, 565-583.	3.6	87

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37	Impact of Heteroatom Speciation on the Activity and Stability of Carbonâ€Based Catalysts for Propane Dehydrogenation. ChemCatChem, 2021, 13, 2599-2608.	1.8	11
38	Inside Back Cover: Microfabrication Enables Quantification of Interfacial Activity in Thermal Catalysis (Small Methods 5/2021). Small Methods, 2021, 5, 2170021.	4.6	0
39	Impact of hybrid CO2-CO feeds on methanol synthesis over In2O3-based catalysts. Applied Catalysis B: Environmental, 2021, 285, 119878.	10.8	30
40	Precursor Nuclearity and Ligand Effects in Atomicallyâ€Dispersed Heterogeneous Iron Catalysts for Alkyne Semiâ€Hydrogenation. ChemCatChem, 2021, 13, 3247-3256.	1.8	11
41	Methanol Synthesis by Hydrogenation of Hybrid CO₂âˆ’CO Feeds. ChemSusChem, 2021, 14, 2914-2923.	3.6	8
42	A quantitative roadmap for China towards carbon neutrality in 2060 using methanol and ammonia as energy carriers. IScience, 2021, 24, 102513.	1.9	62
43	Design of carbon supports for metal-catalyzed acetylene hydrochlorination. Nature Communications, 2021, 12, 4016.	5.8	35
44	Catalytic processing of plastic waste on the rise. CheM, 2021, 7, 1487-1533.	5.8	236
45	Sustainability Assessment of Thermocatalytic Conversion of CO₂ to Transportation Fuels, Methanol, and 1-Propanol. ACS Sustainable Chemistry and Engineering, 2021, 9, 10591-10600.	3.2	20
46	Planetary Boundaries Analysis of Low-Carbon Ammonia Production Routes. ACS Sustainable Chemistry and Engineering, 2021, 9, 9740-9749.	3.2	30
47	Ethaneâ€Based Catalytic Process for Vinyl Chloride Manufacture. Angewandte Chemie - International Edition, 2021, 60, 24089-24095.	7.2	3
48	Ethaneâ€Based Catalytic Process for Vinyl Chloride Manufacture. Angewandte Chemie, 2021, 133, 24291-24297.	1.6	5
49	Atomically precise control in the design of low-nuclearity supported metal catalysts. Nature Reviews Materials, 2021, 6, 969-985.	23.3	78
50	Direct Conversion of Polypropylene into Liquid Hydrocarbons on Carbonâ€Supported Platinum Catalysts. ChemSusChem, 2021, 14, 5179-5185.	3.6	35
51	Functionalized wood with tunable tribopolarity for efficient triboelectric nanogenerators. Matter, 2021, 4, 3049-3066.	5.0	66
52	RÃ¼cktitelbild: Ethaneâ€Based Catalytic Process for Vinyl Chloride Manufacture (Angew. Chem. 45/2021). Angewandte Chemie, 2021, 133, 24536-24536.	1.6	0
53	Nuclearity and Host Effects of Carbonâ€Supported Platinum Catalysts for Dibromomethane Hydrodebromination. Small, 2021, 17, 2005234.	5.2	8
54	Process modelling and life cycle assessment coupled with experimental work to shape the future sustainable production of chemicals and fuels. Reaction Chemistry and Engineering, 2021, 6, 1179-1194.	1.9	34

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55	Toward reliable and accessible ammonia quantification in the electrocatalytic reduction of nitrogen. Chem Catalysis, 2021, 1, 1505-1518.	2.9	20
56	Planetary metrics for the absolute environmental sustainability assessment of chemicals. Green Chemistry, 2021, 23, 9881-9893.	4.6	27
57	Alkane Functionalization via Catalytic Oxychlorination: Performance as a Function of the Carbon Number. Energy Technology, 2020, 8, 1900622.	1.8	3
58	Dual catalyst system for selective vinyl chloride production <i>via</i> ethene oxychlorination. Catalysis Science and Technology, 2020, 10, 560-575.	2.1	4
59	Nitrogenâ€Doped Carbons with Hierarchical Porosity via Chemical Blowing Towards Longâ€Lived Metalâ€Free Catalysts for Acetylene Hydrochlorination. ChemCatChem, 2020, 12, 1922-1925.	1.8	10
60	Aluminum Redistribution in ZSM-5 Zeolite upon Interaction with Gaseous Halogens and Hydrogen Halides and Implications in Catalysis. Journal of Physical Chemistry C, 2020, 124, 722-733.	1.5	8
61	Role of Zirconia in Indium Oxide-Catalyzed CO₂Hydrogenation to Methanol. ACS Catalysis, 2020, 10, 1133-1145.	5.5	177
62	Epitaxially Directed Iridium Nanostructures on Titanium Dioxide for the Selective Hydrodechlorination of Dichloromethane. ACS Catalysis, 2020, 10, 528-542.	5.5	24
63	Single-Atom Catalysts across the Periodic Table. Chemical Reviews, 2020, 120, 11703-11809.	23.0	690
64	Achieving a low-carbon future through the energyâ€“chemical nexus in China. Sustainable Energy and Fuels, 2020, 4, 6141-6155.	2.5	11
65	Enhanced Performance of Zirconiumâ€Doped Ceria Catalysts for the Methoxycarbonylation of Anilines. Chemistry - A European Journal, 2020, 26, 16129-16137.	1.7	6
66	Hybridization of Fossilâ€• and CO₂â€Based Routes for Ethylene Production using Renewable Energy. ChemSusChem, 2020, 13, 6370-6380.	3.6	29
67	Key role of chemistry versus bias in electrocatalytic oxygen evolution. Nature, 2020, 587, 408-413.	13.7	405
68	Electrochemical Reduction of Carbon Dioxide to 1â€Butanol on Oxideâ€Derived Copper. Angewandte Chemie - International Edition, 2020, 59, 21072-21079.	7.2	57
69	Methanol as a Hydrogen Carrier: Kinetic and Thermodynamic Drivers for its CO₂â€Based Synthesis and Reforming over Heterogeneous Catalysts. ChemSusChem, 2020, 13, 6330-6337.	3.6	18
70	Carrierâ€Induced Modification of Palladium Nanoparticles on Porous Boron Nitride for Alkyne Semiâ€Hydrogenation. Angewandte Chemie, 2020, 132, 19807-19812.	1.6	11
71	Single atom catalysis: a decade of stunning progress and the promise for a bright future. Nature Communications, 2020, 11, 4302.	5.8	179
72	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. ACS Catalysis, 2020, 10, 11069-11080.	5.5	29

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73	Synthesizing Highâ€Volume Chemicals from CO₂ without Direct H₂ Input. ChemSusChem, 2020, 13, 6066-6089.	3.6	15
74	Laser-Microstructured Copper Reveals Selectivity Patterns in the Electrocatalytic Reduction of CO2. CheM, 2020, 6, 1707-1722.	5.8	39
75	Transformation of titanium carbide into mesoporous titania for catalysed HBr oxidation. Catalysis Science and Technology, 2020, 10, 4072-4083.	2.1	2
76	Substrate substitution effects in the Fries rearrangement of aryl esters over zeolite catalysts. Catalysis Science and Technology, 2020, 10, 4282-4292.	2.1	5
77	Coreâ€“shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO₂. Chemical Society Reviews, 2020, 49, 2937-3004.	18.7	479
78	Biomass valorisation over metal-based solid catalysts from nanoparticles to single atoms. Chemical Society Reviews, 2020, 49, 3764-3782.	18.7	163
79	Nanostructuring unlocks high performance of platinum single-atom catalysts for stable vinyl chloride production. Nature Catalysis, 2020, 3, 376-385.	16.1	122
80	New analytical tools for advanced mechanistic studies in catalysis: photoionization and photoelectron photoion coincidence spectroscopy. Catalysis Science and Technology, 2020, 10, 1975-1990.	2.1	67
81	Hydrocracking of hexadecane to jet fuel components over hierarchical Ru-modified faujasite zeolite. Fuel, 2020, 278, 118193.	3.4	20
82	Carrierâ€Induced Modification of Palladium Nanoparticles on Porous Boron Nitride for Alkyne Semiâ€Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19639-19644.	7.2	36
83	Green Synthesis of Hierarchical Metalâ€“Organic Framework/Wood Functional Composites with Superior Mechanical Properties. Advanced Science, 2020, 7, 1902897.	5.6	99
84	Structure Sensitivity and Evolution of Nickel-Bearing Nitrogen-Doped Carbons in the Electrochemical Reduction of CO₂. ACS Catalysis, 2020, 10, 3444-3454.	5.5	20
85	Operando Photoelectron Photoion Coincidence Spectroscopy Unravels Mechanistic Fingerprints of Propane Activation by Catalytic Oxyhalogenation. Journal of Physical Chemistry Letters, 2020, 11, 856-863.	2.1	20
86	Ceria in halogen chemistry. Chinese Journal of Catalysis, 2020, 41, 915-927.	6.9	9
87	CO 2 â€Promoted Catalytic Process Forming Higher Alcohols with Tunable Nature at Record Productivity. ChemCatChem, 2020, 12, 2732-2744.	1.8	14
88	Development of In2O3-based Catalysts for CO2-based Methanol Production. Chimia, 2020, 74, 257.	0.3	13
89	Performance of Metal-Catalyzed Hydrodebromination of Dibromomethane Analyzed by Descriptors Derived from Statistical Learning. ACS Catalysis, 2020, 10, 6129-6143.	5.5	23
90	Tunable Catalytic Performance of Palladium Nanoparticles for H₂O₂ Direct Synthesis via Surface-Bound Ligands. ACS Catalysis, 2020, 10, 5202-5207.	5.5	39

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91	Metalâ€“Organic Frameworks/Wood Composites: Green Synthesis of Hierarchical Metalâ€“Organic Framework/Wood Functional Composites with Superior Mechanical Properties (Adv. Sci. 7/2020). Advanced Science, 2020, 7, 2070040.	5.6	1
92	Preparation of highly active phosphated TiO2catalystsviacontinuous solâ€“gel synthesis in a microreactor. Catalysis Science and Technology, 2019, 9, 4744-4758.	2.1	4
93	Mechanistic origin of the diverging selectivity patterns in catalyzed ethane and ethene oxychlorination. Journal of Catalysis, 2019, 377, 233-244.	3.1	9
94	Mechanistic Insights into the Ceria-Catalyzed Synthesis of Carbamates as Polyurethane Precursors. ACS Catalysis, 2019, 9, 7708-7720.	5.5	14
95	Preserved in a Shell: Highâ€Performance Grapheneâ€Confined Ruthenium Nanoparticles in Acetylene Hydrochlorination. Angewandte Chemie, 2019, 131, 12425-12432.	1.6	5
96	Atomic-scale engineering of indium oxide promotion by palladium for methanol production via CO2 hydrogenation. Nature Communications, 2019, 10, 3377.	5.8	261
97	Preserved in a Shell: Highâ€Performance Grapheneâ€Confined Ruthenium Nanoparticles in Acetylene Hydrochlorination. Angewandte Chemie - International Edition, 2019, 58, 12297-12304.	7.2	53
98	Titelbild: Halogenbedingte OberflÃchenbindung steuert die selektive Alkanfunktionalisierung zu Olefinen (Angew. Chem. 18/2019). Angewandte Chemie, 2019, 131, 5829-5829.	1.6	0
99	Transforming Energy with Single-Atom Catalysts. Joule, 2019, 3, 2897-2929.	11.7	216
100	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
101	Cascade Deoxygenation Process Integrating Acid and Base Catalysts for the Efficient Production of Second-Generation Biofuels. ACS Sustainable Chemistry and Engineering, 2019, 7, 18027-18037.	3.2	11
102	Tunability and Scalability of Single-Atom Catalysts Based on Carbon Nitride. ACS Sustainable Chemistry and Engineering, 2019, 7, 5223-5230.	3.2	31
103	Controlling the speciation and reactivity of carbon-supported gold nanostructures for catalysed acetylene hydrochlorination. Chemical Science, 2019, 10, 359-369.	3.7	76
104	Catalytic halogenation of methane: a dream reaction with practical scope?. Catalysis Science and Technology, 2019, 9, 4515-4530.	2.1	27
105	Nitrideâ€Derived Copper Modified with Indium as a Selective and Highly Stable Catalyst for the Electroreduction of Carbon Dioxide. ChemSusChem, 2019, 12, 3501-3508.	3.6	20
106	Mechanistic Understanding of Halogen-mediated Catalytic Processes for Selective Natural Gas Functionalization. Chimia, 2019, 73, 288.	0.3	3
107	Selective Propylene Production via Propane Oxychlorination on Metal Phosphate Catalysts. ACS Catalysis, 2019, 9, 5772-5782.	5.5	19
108	Sustainable Continuous Flow Valorization of Î³â€Valerolactone with Trioxane to Î±â€Methyleneâ€Î³â€Valerolactone over Basic Beta Zeolites. ChemSusChem, 2019, 12, 2628-2636.	3.6	34

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109	Atomâ€byâ€Atom Resolution of Structureâ€"Function Relations over Lowâ€Nuclearity Metal Catalysts. Angewandte Chemie, 2019, 131, 8816-8821.	1.6	21
110	Tailoring Nitrogenâ€Doped Carbons as Hosts for Singleâ€Atom Catalysts. ChemCatChem, 2019, 11, 2812-2820.	1.8	40
111	Atomâ€byâ€Atom Resolution of Structureâ€"Function Relations over Lowâ€Nuclearity Metal Catalysts. Angewandte Chemie - International Edition, 2019, 58, 8724-8729.	7.2	108
112	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
113	Kinetics of ceria-catalysed ethene oxychlorination. Journal of Catalysis, 2019, 372, 287-298.	3.1	5
114	Halogenbedingte OberflÃchenbindung steuert die selektive Alkanfunktionalisierung zu Olefinen. Angewandte Chemie, 2019, 131, 5935-5940.	1.6	8
115	Halogenâ€Dependent Surface Confinement Governs Selective Alkane Functionalization to Olefins. Angewandte Chemie - International Edition, 2019, 58, 5877-5881.	7.2	30
116	Optical Wireless Camera Communications using Neuromorphic Vision Sensors. , 2019, , .		4
117	Heading to Distributed Electrocatalytic Conversion of Small Abundant Molecules into Fuels, Chemicals, and Fertilizers. Joule, 2019, 3, 2602-2621.	11.7	86
118	Strategies to break linear scaling relationships. Nature Catalysis, 2019, 2, 971-976.	16.1	273
119	Plant-to-planet analysis of CO₂-based methanol processes. Energy and Environmental Science, 2019, 12, 3425-3436.	15.6	160
120	Electrocatalytic Reduction of Nitrogen: From Haber-Bosch to Ammonia Artificial Leaf. CheM, 2019, 5, 263-283.	5.8	339
121	Titelbild: Design of Single Gold Atoms on Nitrogen-Doped Carbon for Molecular Recognition in Alkyne Semi-Hydrogenation (Angew. Chem. 2/2019). Angewandte Chemie, 2019, 131, 357-357.	1.6	0
122	Design of Single Gold Atoms on Nitrogenâ€Doped Carbon for Molecular Recognition in Alkyne Semiâ€Hydrogenation. Angewandte Chemie, 2019, 131, 514-519.	1.6	22
123	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
124	Ensemble Design in Nickel Phosphide Catalysts for Alkyne Semiâ€Hydrogenation. ChemCatChem, 2019, 11, 457-464.	1.8	25
125	Selective Methane Functionalization via Oxyhalogenation over Supported Noble Metal Nanoparticles. ACS Catalysis, 2019, 9, 1710-1725.	5.5	29
126	Environmental and economical perspectives of a glycerol biorefinery. Energy and Environmental Science, 2018, 11, 1012-1029.	15.6	162

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127	Microfabricated electrodes unravel the role of interfaces in multicomponent copper-based CO2 reduction catalysts. Nature Communications, 2018, 9, 1477.	5.8	60
128	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. National Science Review, 2018, 5, 642-652.	4.6	132
129	Halogen type as a selectivity switch in catalysed alkane oxyhalogenation. Catalysis Science and Technology, 2018, 8, 2231-2243.	2.1	13
130	Mechanism of Ethylene Oxychlorination on Ceria. ACS Catalysis, 2018, 8, 2651-2663.	5.5	22
131	Acidity Effects in Positron Annihilation Lifetime Spectroscopy of Zeolites. Journal of Physical Chemistry C, 2018, 122, 3443-3453.	1.5	6
132	Lanthanum vanadate catalysts for selective and stable methane oxybromination. Journal of Catalysis, 2018, 363, 69-80.	3.1	16
133	Mechanism and microkinetics of methanol synthesis via CO2 hydrogenation on indium oxide. Journal of Catalysis, 2018, 361, 313-321.	3.1	216
134	Towards sustainable manufacture of epichlorohydrin from glycerol using hydrotalcite-derived basic oxides. Green Chemistry, 2018, 20, 148-159.	4.6	44
135	Descriptors for High-Performance Nitrogen-Doped Carbon Catalysts in Acetylene Hydrochlorination. ACS Catalysis, 2018, 8, 1114-1121.	5.5	108
136	Sulfur-Modified Copper Catalysts for the Electrochemical Reduction of Carbon Dioxide to Formate. ACS Catalysis, 2018, 8, 837-844.	5.5	209
137	An Activated TiCâ€“SiC Composite for Natural Gas Upgrading via Catalytic Oxyhalogenation. ChemCatChem, 2018, 10, 1282-1290.	1.8	11
138	Elucidating the Distribution and Speciation of Boron and Cesium in BCsX Zeolite Catalysts for Styrene Production. ChemPhysChem, 2018, 19, 437-445.	1.0	12
139	Carbon nanofibres-supported KCoMo catalysts for syngas conversion into higher alcohols. Catalysis Science and Technology, 2018, 8, 187-200.	2.1	24
140	Selective Methane Oxybromination over Nanostructured Ceria Catalysts. ACS Catalysis, 2018, 8, 291-303.	5.5	17
141	Die facettenreiche ReaktivitÃ¤t heterogener Einzelatomâ€Katalysatoren. Angewandte Chemie, 2018, 130, 15538-15552.	1.6	36
142	Positron Annihilation Spectroscopy: Shedding New Light on Nanostructured Catalysts with Positron Annihilation Spectroscopy (Small Methods 12/2018). Small Methods, 2018, 2, 1800060.	4.6	1
143	Hydrotalcite-Derived Mixed Oxides for the Synthesis of a Key Vitamin A Intermediate Reducing Waste. ACS Omega, 2018, 3, 15293-15301.	1.6	4
144	Origin of the Selective Electroreduction of Carbon Dioxide to Formate by Chalcogen Modified Copper. Journal of Physical Chemistry Letters, 2018, 9, 7153-7159.	2.1	57

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145	Shedding New Light on Nanostructured Catalysts with Positron Annihilation Spectroscopy. Small Methods, 2018, 2, 1800268.	4.6	13
146	Techno-Economic Analysis of a Glycerol Biorefinery. ACS Sustainable Chemistry and Engineering, 2018, 6, 16563-16572.	3.2	64
147	The Multifaceted Reactivity of Singleâ€Atom Heterogeneous Catalysts. Angewandte Chemie - International Edition, 2018, 57, 15316-15329.	7.2	261
148	Role of Carbonaceous Supports and Potassium Promoter on Higher Alcohols Synthesis over Copperâ€"Iron Catalysts. ACS Catalysis, 2018, 8, 9604-9618.	5.5	58
149	Enhanced Base-Free Formic Acid Production from CO2 on Pd/g-C3 N4 by Tuning of the Carrier Defects. ChemSusChem, 2018, 11, 2841-2841.	3.6	0
150	Structureâ€"performance descriptors and the role of Lewis acidity in the methanol-to-propylene process. Nature Chemistry, 2018, 10, 804-812.	6.6	221
151	A heterogeneous single-atom palladium catalyst surpassing homogeneous systems for Suzuki coupling. Nature Nanotechnology, 2018, 13, 702-707.	15.6	471
152	Enhanced Baseâ€Free Formic Acid Production from CO₂ on Pd/gâ€C₃N₄ by Tuning of the Carrier Defects. ChemSusChem, 2018, 11, 2859-2869.	3.6	47
153	Selective ensembles in supported palladium sulfide nanoparticles for alkyne semi-hydrogenation. Nature Communications, 2018, 9, 2634.	5.8	180
154	Demo/poster abstract: Enabling time-critical applications over next-generation 802.11 networks. , 2018, , .		3
155	Evidence of radical chemistry in catalytic methane oxybromination. Nature Catalysis, 2018, 1, 363-370.	16.1	41
156	Titelbild: Hybrid Palladium Nanoparticles for Direct Hydrogen Peroxide Synthesis: The Key Role of the Ligand (Angew. Chem. 7/2017). Angewandte Chemie, 2017, 129, 1701-1701.	1.6	0
157	Catalytic Oxychlorination versus Oxybromination for Methane Functionalization. ACS Catalysis, 2017, 7, 1805-1817.	5.5	50
158	Halogen-Mediated Conversion of Hydrocarbons to Commodities. Chemical Reviews, 2017, 117, 4182-4247.	23.0	260
159	Bifunctional Hierarchical Zeoliteâ€Supported Silver Catalysts for the Conversion of Glycerol to Allyl Alcohol. ChemCatChem, 2017, 9, 2195-2202.	1.8	20
160	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. Advanced Functional Materials, 2017, 27, 1605785.	7.8	249
161	Catalysts: Stabilization of Single Metal Atoms on Graphitic Carbon Nitride (Adv. Funct. Mater. 8/2017). Advanced Functional Materials, 2017, 27, .	7.8	2
162	Pore Topology Effects in Positron Annihilation Spectroscopy of Zeolites. ChemPhysChem, 2017, 18, 428-428.	1.0	0

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164	On the influence of Si:Al ratio and hierarchical porosity of FAU zeolites in solid acid catalysed esterification pretreatment of bio-oil. Biomass Conversion and Biorefinery, 2017, 7, 331-342.	2.9	50
165	Design of a technical Mgâ€"Al mixed oxide catalyst for the continuous manufacture of glycerol carbonate. Journal of Materials Chemistry A, 2017, 5, 16200-16211.	5.2	46
166	Solvothermallyâ€Prepared Cu₂O Electrocatalysts for CO₂ Reduction with Tunable Selectivity by the Introduction of pâ€Block Elements. ChemSusChem, 2017, 10, 1255-1265.	3.6	47
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