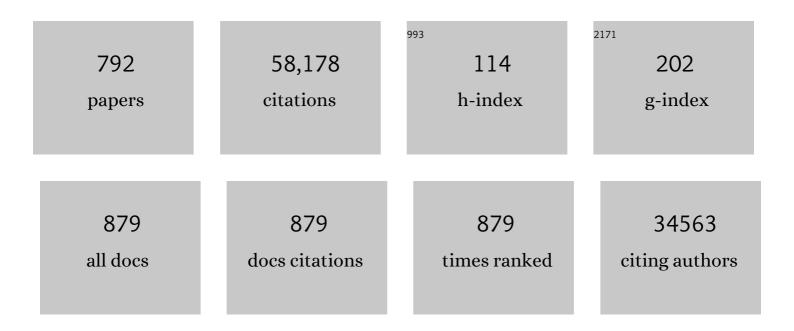
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Deactivation and regeneration of solid acid and base catalyst bodies used in cascade for bio-oil synthesis and upgrading. Journal of Catalysis, 2022, 405, 641-651.	3.1	3
2	Unravelling Channel Structure–Diffusivity Relationships in Zeolite ZSMâ€5 at the Singleâ€Molecule Level. Angewandte Chemie, 2022, 134, .	1.6	5
3	Understanding the Effects of Binders in Gas Sorption and Acidity of Aluminium Fumarate Extrudates. Chemistry - A European Journal, 2022, 28, .	1.7	6
4	Nano-scale insights regarding coke formation in zeolite SSZ-13 subject to the methanol-to-hydrocarbons reaction. Catalysis Science and Technology, 2022, 12, 1220-1228.	2.1	13
5	Dual Fluorescence in Glutathione-Derived Carbon Dots Revisited. Journal of Physical Chemistry C, 2022, 126, 2720-2727.	1.5	11
6	The concept of active site in heterogeneous catalysis. Nature Reviews Chemistry, 2022, 6, 89-111.	13.8	218
7	Structureâ€Activity Relationships in Highly Active Platinumâ€Tin MFlâ€type Zeolite Catalysts for Propane Dehydrogenation. ChemCatChem, 2022, 14, .	1.8	16
8	Enhanced Catalytic Performance through In Situ Encapsulation of Ultrafine Ru Clusters within a High-Aluminum Zeolite. ACS Catalysis, 2022, 12, 1847-1856.	5.5	37
9	Uncovering the reaction mechanism behind CoO as active phase for CO2 hydrogenation. Nature Communications, 2022, 13, 324.	5.8	69
10	Tandem catalysis with double-shelled hollow spheres. Nature Materials, 2022, 21, 572-579.	13.3	65
11	Mechanistic Characterization of Zeolite-Catalyzed Aromatic Electrophilic Substitution at Realistic Operating Conditions. Jacs Au, 2022, 2, 502-514.	3.6	17
12	New insights into the NH <sub>3</sub> -selective catalytic reduction of NO over Cu-ZSM-5 as revealed by <i>operando</i> spectroscopy. Catalysis Science and Technology, 2022, 12, 2589-2603.	2.1	12
13	Using Biomass Gasification Mineral Residue as Catalyst to Produce Light Olefins from CO, CO <sub>2</sub> , and H <sub>2</sub> Mixtures. ChemSusChem, 2022, 15, e202200436.	3.6	2
14	Emerging analytical methods to characterize zeolite-based materials. National Science Review, 2022, 9,	4.6	11
15	Rücktitelbild: Unravelling Channel Structure–Diffusivity Relationships in Zeolite ZSMâ€5 at the Singleâ€Molecule Level (Angew. Chem. 5/2022). Angewandte Chemie, 2022, 134, .	1.6	0
16	Unravelling Channel Structure–Diffusivity Relationships in Zeolite ZSMâ€5 at the Singleâ€Molecule Level. Angewandte Chemie - International Edition, 2022, 61, .	7.2	19
17	Favoring the Methane Oxychlorination Reaction over EuOCl by Synergistic Effects with Lanthanum. ACS Catalysis, 2022, 12, 5698-5710.	5.5	5
18	Hole Dynamics in Photoexcited Hematite Studied with Femtosecond Oxygen K-edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 4207-4214.	2.1	5

#	Article	IF	CITATIONS
19	Using Biomass Gasification Mineral Residue as Catalyst to Produce Light Olefins from CO, CO <sub>2</sub> , and H <sub>2</sub> Mixtures. ChemSusChem, 2022, 15, e202200851.	3.6	2
20	An integrated approach to the key parameters in methanol-to-olefins reaction catalyzed by MFI/MEL zeolite materials. Chinese Journal of Catalysis, 2022, 43, 1879-1893.	6.9	6
21	Classification-based motion analysis of single-molecule trajectories using DiffusionLab. Scientific Reports, 2022, 12, .	1.6	6
22	Wasteâ€Derived Copper‣ead Electrocatalysts for CO <sub>2</sub> Reduction. ChemCatChem, 2022, 14, .	1.8	7
23	Single catalyst particle diagnostics in a microreactor for performing multiphase hydrogenation reactions. Faraday Discussions, 2021, 229, 267-280.	1.6	5
24	Reaction Mechanism of Pdâ€Catalyzed "COâ€Free―Carbonylation Reaction Uncovered by In Situ Spectroscopy: The Formyl Mechanism. Angewandte Chemie - International Edition, 2021, 60, 3422-3427.	7.2	9
25	<i>In situ</i> Nanoscale Infrared Spectroscopy of Water Adsorption on Nanoislands of Surfaceâ€Anchored Metalâ€Organic Frameworks. Angewandte Chemie - International Edition, 2021, 60, 1620-1624.	7.2	29
26	Effect of Mesoporosity, Acidity and Crystal Size of Zeolite ZSMâ€5 on Catalytic Performance during the Exâ€situ Catalytic Fast Pyrolysis of Biomass. ChemCatChem, 2021, 13, 1207-1219.	1.8	16
27	The nanogeochemistry of abiotic carbonaceous matter in serpentinites from the Yap Trench, western Pacific Ocean. Geology, 2021, 49, 330-334.	2.0	14
28	Catalytic Fast Pyrolysis of Biomass: Catalyst Characterization Reveals the Feed-Dependent Deactivation of a Technical ZSM-5-Based Catalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 291-304.	3.2	57
29	Reaction Mechanism of Pdâ€Catalyzed "COâ€Free―Carbonylation Reaction Uncovered by In Situ Spectroscopy: The Formyl Mechanism. Angewandte Chemie, 2021, 133, 3464-3469.	1.6	3
30	In situ Nanoscale Infrared Spectroscopy of Water Adsorption on Nanoislands of Surfaceâ€Anchored Metalâ€Organic Frameworks. Angewandte Chemie, 2021, 133, 1644-1648.	1.6	5
31	Influence of Metalâ€Alkyls on Earlyâ€Stage Ethylene Polymerization over a Cr/SiO <sub>2</sub> Phillips Catalyst: A Bulk Characterization and Xâ€ray Chemical Imaging Study. Chemistry - A European Journal, 2021, 27, 1688-1699.	1.7	9
32	<i>In Situ</i> X-ray Raman Scattering Spectroscopy of the Formation of Cobalt Carbides in a Co/TiO <sub>2</sub> Fischer–Tropsch Synthesis Catalyst. ACS Catalysis, 2021, 11, 809-819.	5.5	24
33	THEORETICAL MODELLING OF FUNCTIONAL MATERIALS. , 2021, , .		Ο
34	Visualizing defects and pore connectivity within metal–organic frameworks by X-ray transmission tomography. Chemical Science, 2021, 12, 8458-8467.	3.7	10
35	Rapid fabrication of MOF-based mixed matrix membranes through digital light processing. Materials Advances, 2021, 2, 2739-2749.	2.6	12
36	Early-stage particle fragmentation behavior of a commercial silica-supported metallocene catalyst. Catalysis Science and Technology, 2021, 11, 5335-5348.	2.1	17

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37	Advanced approaches: general discussion. Faraday Discussions, 2021, 229, 378-421.	1.6	1
38	Identification of Photoexcited Electron Relaxation in a Cobalt Phosphide Modified Carbon Nitride Photocatalyst. ChemPhotoChem, 2021, 5, 330-334.	1.5	8
39	TOWARDS IN-SILICO DESIGN OF FUNCTIONAL MATERIALS. , 2021, , .		0
40	5-Hydroxy-2-Methylfurfural from Sugar Beet Thick Juice: Kinetic and Modeling Studies. ACS Sustainable Chemistry and Engineering, 2021, 9, 2626-2638.	3.2	5
41	On the Cobalt Carbide Formation in a Co/TiO <sub>2</sub> Fischer–Tropsch Synthesis Catalyst as Studied by High-Pressure, Long-Term <i>Operando</i> X-ray Absorption and Diffraction. ACS Catalysis, 2021, 11, 2956-2967.	5.5	33
42	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
43	Single-molecule observation of diffusion and catalysis in nanoporous solids. Adsorption, 2021, 27, 423-452.	1.4	30
44	Influence of Pore Structure and Metalâ€Node Geometry on the Polymerization of Ethylene over Crâ€Based Metal–Organic Frameworks. Chemistry - A European Journal, 2021, 27, 5769-5781.	1.7	5
45	Reactivity of Single Transition Metal Atoms on a Hydroxylated Amorphous Silica Surface: A Periodic Conceptual DFT Investigation. Chemistry - A European Journal, 2021, 27, 6050-6063.	1.7	11
46	3â€D Xâ€ray Nanotomography Reveals Different Carbon Deposition Mechanisms in a Single Catalyst Particle. ChemCatChem, 2021, 13, 2494-2507.	1.8	22
47	Single Trap States in Single CdSe Nanoplatelets. ACS Nano, 2021, 15, 7216-7225.	7.3	30
48	Femtosecond Charge Density Modulations in Photoexcited CuWO <sub>4</sub> . Journal of Physical Chemistry C, 2021, 125, 7329-7336.	1.5	6
49	Mapping Elevated Temperatures with a Micrometer Resolution Using the Luminescence of Chemically Stable Upconversion Nanoparticles. ACS Applied Nano Materials, 2021, 4, 4208-4215.	2.4	57
50	Transforming inactive coke molecules into active intermediates in zeolites. Joule, 2021, 5, 757-759.	11.7	2
51	Unravelling the effect of impurities on the methanol-to-olefins process in waste-derived zeolites ZSM-5. Journal of Catalysis, 2021, 396, 136-147.	3.1	16
52	Innentitelbild: Chemical Imaging of Hierarchical Porosity Formation within a Zeolite Crystal Visualized by Smallâ€Angle Xâ€Ray Scattering and Inâ€Situ Fluorescence Microscopy (Angew. Chem. 25/2021). Angewandte Chemie, 2021, 133, 13802-13802.	1.6	0
53	Chemical targets to deactivate biological and chemical toxins using surfaces and fabrics. Nature Reviews Chemistry, 2021, 5, 370-387.	13.8	47
54	Chemical Imaging of Hierarchical Porosity Formation within a Zeolite Crystal Visualized by Smallâ€Angle Xâ€Ray Scattering and In‣itu Fluorescence Microscopy. Angewandte Chemie, 2021, 133, 13922-13925.	1.6	2

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55	Chemical Imaging of Hierarchical Porosity Formation within a Zeolite Crystal Visualized by Smallâ€Angle Xâ€Ray Scattering and In‣itu Fluorescence Microscopy. Angewandte Chemie - International Edition, 2021, 60, 13803-13806.	7.2	9
56	Photoinduced Force Microscopy as an Efficient Method Towards the Detection of Nanoplastics. Chemistry Methods, 2021, 1, 205-209.	1.8	11
57	Crystal Phase Effects on the Gasâ€Phase Ketonization of Small Carboxylic Acids over TiO <sub>2</sub> Catalysts. ChemSusChem, 2021, 14, 2710-2720.	3.6	15
58	Efficient Synthesis of Monomeric Fe Species in Zeolite ZSMâ€5 for the Lowâ€Temperature Oxidation of Methane. ChemCatChem, 2021, 13, 2766-2770.	1.8	16
59	Heterogeneity in the Fragmentation of Ziegler Catalyst Particles during Ethylene Polymerization Quantified by X-ray Nanotomography. Jacs Au, 2021, 1, 852-864.	3.6	20
60	Highly Selective Oxidation of Methane into Methanol over Cu-Promoted Monomeric Fe/ZSM-5. ACS Catalysis, 2021, 11, 6684-6691.	5.5	73
61	Separation and Purification of Hydrocarbons with Porous Materials. Angewandte Chemie - International Edition, 2021, 60, 18930-18949.	7.2	118
62	Photoinduced Force Microscopy as an Efficient Method Towards the Detection of Nanoplastics. Chemistry Methods, 2021, 1, 204-204.	1.8	0
63	Separation and Purification of Hydrocarbons with Porous Materials. Angewandte Chemie, 2021, 133, 19078-19097.	1.6	2
64	Crystal Phase Effects on the Gasâ€Phase Ketonization of Small Carboxylic Acids over TiO 2 Catalysts. ChemSusChem, 2021, 14, 2634-2634.	3.6	1
65	Subâ€Second Timeâ€Resolved Surfaceâ€Enhanced Raman Spectroscopy Reveals Dynamic CO Intermediates during Electrochemical CO <sub>2</sub> Reduction on Copper. Angewandte Chemie, 2021, 133, 16712-16720.	1.6	17
66	Subâ€Second Timeâ€Resolved Surfaceâ€Enhanced Raman Spectroscopy Reveals Dynamic CO Intermediates during Electrochemical CO <sub>2</sub> Reduction on Copper. Angewandte Chemie - International Edition, 2021, 60, 16576-16584.	7.2	141
67	Plastic Waste Conversion over a Refinery Waste Catalyst. Angewandte Chemie - International Edition, 2021, 60, 16101-16108.	7.2	78
68	Plastic Waste Conversion over a Refinery Waste Catalyst. Angewandte Chemie, 2021, 133, 16237-16244.	1.6	8
69	Water–active site interactions in zeolites and their relevance in catalysis. Trends in Chemistry, 2021, 3, 456-468.	4.4	29
70	Operando Shellâ€Isolated Nanoparticleâ€Enhanced Raman Spectroscopy of the NO Reduction Reaction over Rhodiumâ€Based Catalysts. ChemPhysChem, 2021, 22, 1595-1602.	1.0	6
71	Nanoscale Chemical Imaging in Zeolite Catalysts by Atom Probe Tomography. Microscopy and Microanalysis, 2021, 27, 984-985.	0.2	0
72	The active phase in cobalt-based Fischer-Tropsch synthesis. Chem Catalysis, 2021, 1, 339-363.	2.9	39

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73	Calcination temperature effects on Pd/alumina catalysts: Particle size, surface species and activity in methane combustion. Catalysis Today, 2021, 382, 120-129.	2.2	21
74	Mechanistic Insights into the Lanthanide-Catalyzed Oxychlorination of Methane as Revealed by Operando Spectroscopy. ACS Catalysis, 2021, 11, 10574-10588.	5.5	8
75	Crowded catalyst, better catalyst. National Science Review, 2021, 8, nwab141.	4.6	3
76	Zeoliteâ€Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. Angewandte Chemie - International Edition, 2021, 60, 23713-23721.	7.2	43
77	Zeoliteâ€Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. Angewandte Chemie, 2021, 133, 23906-23914.	1.6	10
78	Detection of Spontaneous FeOOH Formation at the Hematite/Ni(Fe)OOH Interface During Photoelectrochemical Water Splitting by Operando X-ray Absorption Spectroscopy. ACS Catalysis, 2021, 11, 12324-12335.	5.5	18
79	Understanding Water–Zeolite Interactions: On the Accuracy of Density Functionals. Journal of Physical Chemistry C, 2021, 125, 20261-20274.	1.5	10
80	Propane to olefins tandem catalysis: a selective route towards light olefins production. Chemical Society Reviews, 2021, 50, 11503-11529.	18.7	104
81	New insights into the biphasic "CO-free―Pauson–Khand cyclisation reaction through combined <i>in situ</i> spectroscopy and multiple linear regression modelling. Catalysis Science and Technology, 2021, 11, 1626-1636.	2.1	1
82	Stabilization effects in binary colloidal Cu and Ag nanoparticle electrodes under electrochemical CO <sub>2</sub> reduction conditions. Nanoscale, 2021, 13, 4835-4844.	2.8	29
83	Identifying key mononuclear Fe species for low-temperature methane oxidation. Chemical Science, 2021, 12, 3152-3160.	3.7	49
84	Mimicking industrial aging in fluid catalytic cracking: A correlative microscopy approach to unravel inter-particle heterogeneities. Journal of Catalysis, 2021, 404, 634-646.	3.1	5
85	Correlating the Morphological Evolution of Individual Catalyst Particles to the Kinetic Behavior of Metallocene-Based Ethylene Polymerization Catalysts. Jacs Au, 2021, 1, 1996-2008.	3.6	15
86	X-ray nanotomography uncovers morphological heterogeneity in a polymerization catalyst at multiple reaction stages. Chem Catalysis, 2021, 1, 1413-1426.	2.9	6
87	Production of Hexane-1,2,5,6-tetrol from Biorenewable Levoglucosanol over Pt-WO <sub><i>x</i></sub> /TiO <sub>2</sub> . ACS Sustainable Chemistry and Engineering, 2021, 9, 16123-16132.	3.2	3
88	Monitoring Molecular Weight Changes during Technical Lignin Depolymerization by Operando Attenuated Total Reflectance Infrared Spectroscopy and Chemometrics. ChemSusChem, 2021, 14, 5517-5524.	3.6	9
89	Toward an e-chemistree: Materials for electrification of the chemical industry. MRS Bulletin, 2021, 46, 1187-1196.	1.7	31
90	Elucidation of the pre-nucleation phase directing metal-organic framework formation. Cell Reports Physical Science, 2021, 2, 100680.	2.8	11

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91	High-throughput activity screening and sorting of single catalyst particles with a droplet microreactor using dielectrophoresis. Nature Catalysis, 2021, 4, 1070-1079.	16.1	23
92	Dynamic restructuring of supported metal nanoparticles and its implications for structure insensitive catalysis. Nature Communications, 2021, 12, 7096.	5.8	33
93	Stable niobia-supported nickel catalysts for the hydrogenation of carbon monoxide to hydrocarbons. Catalysis Today, 2020, 343, 56-62.	2.2	18
94	Nanoweb Surfaceâ€Mounted Metal–Organic Framework Films with Tunable Amounts of Acid Sites as Tailored Catalysts. Chemistry - A European Journal, 2020, 26, 691-698.	1.7	11
95	Synthesis of Hexane-Tetrols and -Triols with Fixed Hydroxyl Group Positions and Stereochemistry from Methyl Glycosides over Supported Metal Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 800-805.	3.2	13
96	Melamineâ€Based Microporous Organic Framework Thin Films on an Alumina Membrane for Highâ€Flux Organic Solvent Nanofiltration. ChemSusChem, 2020, 13, 136-140.	3.6	16
97	Direct observation of the electronic states of photoexcited hematite with ultrafast 2p3d X-ray absorption spectroscopy and resonant inelastic X-ray scattering. Physical Chemistry Chemical Physics, 2020, 22, 2685-2692.	1.3	26
98	Nickel Poisoning of a Cracking Catalyst Unravelled by Singleâ€Particle Xâ€ray Fluorescenceâ€Diffractionâ€Absorption Tomography. Angewandte Chemie - International Edition, 2020, 59, 3922-3927.	7.2	36
99	Nickel Poisoning of a Cracking Catalyst Unravelled by Singleâ€Particle Xâ€ray Fluorescenceâ€Diffractionâ€Absorption Tomography. Angewandte Chemie, 2020, 132, 3950-3955.	1.6	5
100	Structure Sensitivity in Steam and Dry Methane Reforming over Nickel: Activity and Carbon Formation. ACS Catalysis, 2020, 10, 1428-1438.	5.5	109
101	Creating value from plastic waste. Science, 2020, 370, 400-401.	6.0	71
102	Frontispiece: Matrix Effects in a Fluid Catalytic Cracking Catalyst Particle: Influence on Structure, Acidity, and Accessibility. Chemistry - A European Journal, 2020, 26, .	1.7	0
103	Identification of Iron Carbides in Fe(â~'Naâ~'S)/αâ€Al <sub>2</sub> O <sub>3</sub> Fischerâ€Tropsch Synthesis Catalysts with Xâ€ғay Powder Diffractometry and Mössbauer Absorption Spectroscopy. ChemCatChem, 2020, 12, 5121-5139.	1.8	13
104	Two-in-One Catalyst Turns Carbon Dioxide in Base Chemicals. CheM, 2020, 6, 3167-3169.	5.8	1
105	Titelbild: Elucidating Zeolite Channel Geometry–Reaction Intermediate Relationships for the Methanolâ€ŧoâ€Hydrocarbon Process (Angew. Chem. 45/2020). Angewandte Chemie, 2020, 132, 19893-19893.	1.6	0
106	Elucidating Zeolite Channel Geometry–Reaction Intermediate Relationships for the Methanolâ€ŧoâ€Hydrocarbon Process. Angewandte Chemie - International Edition, 2020, 59, 20024-20030.	7.2	30
107	Finned zeolite catalysts. Nature Materials, 2020, 19, 1074-1080.	13.3	116
108	Continuous Flow Pickering Emulsion Catalysis in Droplet Microfluidics Studied with In Situ Raman Microscopy. Chemistry - A European Journal, 2020, 26, 15099-15102.	1.7	14

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109	Highâ€Pressure Operando UVâ€Vis Microâ€Spectroscopy of Coke Formation in Zeoliteâ€based Catalyst Extrudates during the Transalkylation of Aromatics. ChemCatChem, 2020, 12, 5465-5475.	1.8	12
110	Mechanistic Insights into the Conversion of Biorenewable Levoglucosanol to Dideoxysugars. ACS Sustainable Chemistry and Engineering, 2020, 8, 16339-16349.	3.2	4
111	Elucidating Zeolite Channel Geometry–Reaction Intermediate Relationships for the Methanolâ€toâ€Hydrocarbon Process. Angewandte Chemie, 2020, 132, 20199-20205.	1.6	3
112	Toward Catalytic Ketonization of Volatile Fatty Acids Extracted from Fermented Wastewater by Adsorption. ACS Sustainable Chemistry and Engineering, 2020, 8, 11292-11298.	3.2	20
113	Spectroscopy, microscopy, diffraction and scattering of archetypal MOFs: formation, metal sites in catalysis and thin films. Chemical Society Reviews, 2020, 49, 6694-6732.	18.7	71
114	Combined In Situ X-ray Powder Diffractometry/Raman Spectroscopy of Iron Carbide and Carbon Species Evolution in Fe(â^'Na–S)/α-Al <sub>2</sub> O <sub>3</sub> Catalysts during Fischer–Tropsch Synthesis. ACS Catalysis, 2020, 10, 9837-9855.	5.5	44
115	Disk-Shaped Cobalt Nanocrystals as Fischer–Tropsch Synthesis Catalysts Under Industrially Relevant Conditions. Topics in Catalysis, 2020, 63, 1398-1411.	1.3	3
116	Tuning the Redox Chemistry of a Cr/SiO <sub>2</sub> Phillips Catalyst for Controlling Activity, Induction Period and Polymer Properties. ChemPhysChem, 2020, 21, 1665-1674.	1.0	4
117	In Situ Spectroscopy of Calcium Fluoride Anchored Metal–Organic Framework Thin Films during Gas Sorption. Angewandte Chemie, 2020, 132, 19713-19720.	1.6	6
118	In Situ Spectroscopy of Calcium Fluoride Anchored Metal–Organic Framework Thin Films during Gas Sorption. Angewandte Chemie - International Edition, 2020, 59, 19545-19552.	7.2	13
119	Beyond Mechanical Recycling: Giving New Life to Plastic Waste. Angewandte Chemie - International Edition, 2020, 59, 15402-15423.	7.2	809
120	Catalytic Hydrogenation of Renewable Levulinic Acid to Î <sup>3</sup> -Valerolactone: Insights into the Influence of Feed Impurities on Catalyst Performance in Batch and Flow Reactors. ACS Sustainable Chemistry and Engineering, 2020, 8, 5903-5919.	3.2	35
121	Die nÃëhste Generation des Recyclings – neues Leben für Kunststoffmüll. Angewandte Chemie, 2020, 132, 15524-15548.	1.6	62
122	Single Particle Assays to Determine Heterogeneities within Fluid Catalytic Cracking Catalysts. Chemistry - A European Journal, 2020, 26, 8482-8482.	1.7	3
123	Role of Rare Earth Ions in the Prevention of Dealumination of Zeolite Y for Fluid Cracking Catalysts. Journal of Physical Chemistry C, 2020, 124, 4626-4636.	1.5	29
124	<i>Inâ€Situ</i> Shellâ€Isolated Nanoparticleâ€Enhanced Raman Spectroscopy of Nickelâ€Catalyzed Hydrogenation Reactions. ChemPhysChem, 2020, 21, 625-632.	1.0	21
125	Alkali Promotion in the Formation of CH <sub>4</sub> from CO <sub>2</sub> and Renewably Produced H <sub>2</sub> over Supported Ni Catalysts. ChemCatChem, 2020, 12, 2792-2800.	1.8	17
126	Matrix Effects in a Fluid Catalytic Cracking Catalyst Particle: Influence on Structure, Acidity, and Accessibility. Chemistry - A European Journal, 2020, 26, 11995-12009.	1.7	19

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127	Single Particle Assays to Determine Heterogeneities within Fluid Catalytic Cracking Catalysts. Chemistry - A European Journal, 2020, 26, 8546-8554.	1.7	10
128	Controlling the Depolymerization of Paraformaldehyde with Pd–Phosphine Complexes. Chemistry - A European Journal, 2020, 26, 5297-5302.	1.7	8
129	Correlated X-ray Ptychography and Fluorescence Nano-Tomography on the Fragmentation Behavior of an Individual Catalyst Particle during the Early Stages of Olefin Polymerization. Journal of the American Chemical Society, 2020, 142, 3691-3695.	6.6	41
130	Basicity and Electrolyte Composition Dependent Stability of Niâ€Feâ€S and Niâ€Mo Electrodes during Water Splitting. ChemPhysChem, 2020, 21, 518-524.	1.0	5
131	Multiâ€5pectroscopic Interrogation of the Spatial Linker Distribution in Defectâ€Engineered Metal–Organic Framework Crystals: The [Cu 3 (btc) 2â~' x (cydc) x ] Showcase. Chemistry - A European Journal, 2020, 26, 3614-3625.	1.7	12
132	Cobalt nanocrystals on carbon nanotubes in the Fischer-Tropsch synthesis: Impact of support oxidation. Applied Catalysis A: General, 2020, 593, 117441.	2.2	31
133	Disentangling Reaction Processes of Zeolites within Singleâ€Oriented Channels. Angewandte Chemie - International Edition, 2020, 59, 15502-15506.	7.2	49
134	Deactivation of Cuâ€Exchanged Automotiveâ€Emission NH 3 â€SCR Catalysts Elucidated with Nanoscale Resolution Using Scanning Transmission Xâ€ray Microscopy. Angewandte Chemie, 2020, 132, 15740-15747.	1.6	8
135	Disentangling Reaction Processes of Zeolites within Singleâ€Oriented Channels. Angewandte Chemie, 2020, 132, 15632-15636.	1.6	10
136	Inâ€Situ Study on Ni–Mo Stability in a Waterâ€ <del>S</del> plitting Device: Effect of Catalyst Substrate and Electric Potential. ChemSusChem, 2020, 13, 3172-3179.	3.6	13
137	Carbon Pathways, Sodiumâ€Sulphur Promotion and Identification of Iron Carbides in Ironâ€based Fischerâ€Tropsch Synthesis. ChemCatChem, 2020, 12, 4202-4223.	1.8	27
138	Tandem catalytic aromatization of volatile fatty acids. Green Chemistry, 2020, 22, 3229-3238.	4.6	15
139	<i>Operando</i> Nanoscale Sensors in Catalysis: All Eyes on Catalyst Particles. ACS Nano, 2020, 14, 3725-3735.	7.3	61
140	Deactivation of Cuâ€Exchanged Automotiveâ€Emission NH <sub>3</sub> â€SCR Catalysts Elucidated with Nanoscale Resolution Using Scanning Transmission Xâ€ray Microscopy. Angewandte Chemie - International Edition, 2020, 59, 15610-15617.	7.2	34
141	Fresh evidence challenges the consensus view of active sites in an industrial catalyst. Nature, 2020, 586, 678-679.	13.7	2
142	Nanoscale Chemical Imaging of a Single Catalyst Particle with Tipâ€Enhanced Fluorescence Microscopy. ChemCatChem, 2019, 11, 417-423.	1.8	19
143	Suzukiâ€Miyaura Crossâ€Coupling Using Plasmonic Pdâ€Decorated Au Nanorods as Catalyst: A Study on the Contribution of Laser Illumination. ChemCatChem, 2019, 11, 4974-4980.	1.8	16
144	Chemical Imaging of the Binderâ€Dependent Coke Formation in Zeoliteâ€Based Catalyst Bodies During the Transalkylation of Aromatics. ChemCatChem, 2019, 11, 4788-4796.	1.8	17

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145	Facile Twoâ€Step Synthesis of Delafossite CuFeO <sub>2</sub> Photocathodes by Ultrasonic Spray Pyrolysis and Hybrid Microwave Annealing. ChemPhotoChem, 2019, 3, 1238-1245.	1.5	11
146	Catalytic hydrogenation of dihydrolevoglucosenone to levoglucosanol with a hydrotalcite/mixed oxide copper catalyst. Green Chemistry, 2019, 21, 5000-5007.	4.6	18
147	Efficient and Highly Transparent Ultraâ€Thin Nickelâ€Iron Oxyâ€hydroxide Catalyst for Oxygen Evolution Prepared by Successive Ionic Layer Adsorption and Reaction. ChemPhotoChem, 2019, 3, 1050-1054.	1.5	6
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