

Bert M Weckhuysen

List of Publications by Year in descending order

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860
papers

61,012
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947
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34611
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing the Structure, Composition and Activity of Single Catalyst Particles for Olefin Polymerization and Polyolefin Decomposition. <i>Angewandte Chemie</i> , 2024, 136, .	2.1	0
2	Visualizing the Structure, Composition and Activity of Single Catalyst Particles for Olefin Polymerization and Polyolefin Decomposition. <i>Angewandte Chemie - International Edition</i> , 2024, 63, .	14.7	2
3	Molecular Accessibility and Diffusion of Resorufin in Zeolite Crystals. <i>Chemistry - A European Journal</i> , 2024, 30, .	3.9	1
4	Oxidative Conversion of Polyethylene Towards Diâ€Carboxylic Acids: A Multiâ€Analytical Approach. <i>ChemSusChem</i> , 2024, 17, .	7.4	1
5	Stabilizing Pdâ€cerium oxideâ€aluminum oxide catalysts for methane oxidation by reduction pretreatments. <i>Catalysis Science and Technology</i> , 2024, 14, 153-163.	4.2	0
6	Fluorescentâ€Probe Characterization for Poreâ€Space Mapping with Singleâ€Particle Tracking. <i>Angewandte Chemie</i> , 2024, 136, .	2.1	0
7	Fluorescentâ€Probe Characterization for Poreâ€Space Mapping with Singleâ€Particle Tracking. <i>Angewandte Chemie - International Edition</i> , 2024, 63, .	14.7	0
8	Mechanistic Insights in the Catalytic Hydrogenation of CO ₂ over Pt Nanoparticles in UiO-67 Metalâ€Organic Frameworks. <i>ACS Catalysis</i> , 2024, 14, 382-394.	11.7	1
9	Unravelling potential reaction intermediates during catalytic pyrolysis of polypropylene with microscopy and spectroscopy. <i>Catalysis Science and Technology</i> , 2024, 14, 894-902.	4.2	0
10	Green Additives in Chitosanâ€based Bioplastic Films: Longâ€term Stability Assessment and Aging Effects. <i>ChemSusChem</i> , 2024, 17, .	7.4	0
11	Molecular structure and composition elucidation of an industrial humin and its fractions. <i>Green Chemistry</i> , 2024, 26, 7739-7751.	9.3	1
12	Alternative nano-lithographic tools for shell-isolated nanoparticle enhanced Raman spectroscopy substrates. <i>Nanoscale</i> , 2024, 16, 7582-7593.	5.8	0
13	The refinery of the future. <i>Nature</i> , 2024, 629, 295-306.	36.3	7
14	A Janus dual-atom catalyst for electrocatalytic oxygen reduction and evolution. <i>Nature Synthesis</i> , 2024, 3, 878-890.	10.3	0
15	Operando UVâ€Vis diffuse reflectance spectroscopy insights into the methane dehydroaromatization reaction over Mo/H-ZSM-5 catalysts. <i>Journal of Catalysis</i> , 2024, 436, 115619.	6.5	0
16	Ethylene Polymerization over Metalâ€Organic Framework-Supported Zirconocene Complexes. <i>ACS Catalysis</i> , 2024, 14, 9093-9103.	11.7	0
17	Anchoring PdOx clusters on defective alumina for improved catalytic methane oxidation. <i>Nature Communications</i> , 2024, 15, .	13.2	0
18	Alumina binder effects on the hydrothermal stability of shaped zeolite-based catalyst bodies. <i>Catalysis Science and Technology</i> , 2023, 13, 862-873.	4.2	3

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19	Elucidating polymer growth and fragmentation behavior of MOFs in ethylene polymerization by MOF thin films. <i>Cell Reports Physical Science</i> , 2023, 4, 101206.	5.8	1
20	The Growth of Metal-Organic Framework Films on Calcium Fluoride and Their Interaction With Reactive Molecules. <i>Advanced Materials Interfaces</i> , 2023, 10, .	4.1	3
21	Structure sensitivity in gas sorption and conversion on metal-organic frameworks. <i>Nature Communications</i> , 2023, 14, .	13.2	10
22	New Editor-in-Chief for <i>Catalysis Science & Technology</i> . <i>Catalysis Science and Technology</i> , 2023, 13, 938-939.	4.2	0
23	Elucidating the Roles of Nafion/Solvent Formulations in Copper-Catalyzed CO ₂ Electrolysis. <i>ACS Catalysis</i> , 2023, 13, 5336-5347.	11.7	18
24	Origin of active sites on silica-magnesia catalysts and control of reactive environment in the one-step ethanol-to-butadiene process. <i>Nature Catalysis</i> , 2023, 6, 363-376.	28.3	17
25	Addition of Pore-Forming Agents and Their Effect on the Pore Architecture and Catalytic Behavior of Shaped Zeolite-Based Catalyst Bodies. , 2023, 1, 40-48.		2
26	Elemental zoning enhances mass transport in zeolite catalysts for methanol to hydrocarbons. <i>Nature Catalysis</i> , 2023, 6, 254-265.	28.3	15
27	Impact of the location of magnesium in zeolite-based shaped catalyst bodies on the methanol-to-hydrocarbons process. <i>Microporous and Mesoporous Materials</i> , 2023, 354, 112553.	4.5	1
28	Silicalite-1 Layer Secures the Bifunctional Nature of a CO ₂ Hydrogenation Catalyst. <i>Jacs Au</i> , 2023, 3, 1029-1038.	8.3	12
29	Role of Titanium in Ti/SiO ₂ -Supported Metallocene-based Olefin Polymerization Catalysts. Part 2: Particle Fragmentation. <i>ChemCatChem</i> , 2023, 15, .	3.8	5
30	Carbon Deposit Analysis in Catalyst Deactivation, Regeneration, and Rejuvenation. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	14.7	37
31	Europium-Magnesium-Aluminum-Based Mixed-Metal Oxides as Highly Active Methane Oxychlorination Catalysts. <i>ACS Catalysis</i> , 2023, 13, 5147-5158.	11.7	1
32	Silica-magnesium-titanium Ziegler-Natta catalysts. Part II. Properties of the active sites and fragmentation behaviour. <i>Journal of Catalysis</i> , 2023, 423, 10-18.	6.5	7
33	Ultraviolet-Visible (UV-Vis) Spectroscopy. <i>Springer Handbooks</i> , 2023, , 237-264.	0.0	2
34	Time-Resolved X-Ray Absorption Spectroscopy (XAS). <i>Springer Handbooks</i> , 2023, , 601-623.	0.0	0
35	How Temperature Affects the Selectivity of the Electrochemical CO ₂ Reduction on Copper. <i>ACS Catalysis</i> , 2023, 13, 8080-8091.	11.7	49
36	Spatiotemporal Mapping of Local Heterogeneities during Electrochemical Carbon Dioxide Reduction. <i>Jacs Au</i> , 2023, 3, 1890-1901.	8.3	1

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37	The Role of Water in Carbon Dioxide Adsorption in Porphyrinic Metal-Organic Frameworks. ChemCatChem, 2023, 15, .	3.8	3
38	Elucidating the Structure and Composition of Individual Bimetallic Nanoparticles in Supported Catalysts by Atom Probe Tomography. Journal of the American Chemical Society, 2023, 145, 17299-17308.	14.6	6
39	Green Additives in Chitosan-Based Bioplastic Films: Physical, Mechanical, and Chemical Properties. ChemSusChem, 2023, 16, .	7.4	3
40	Transport limitations in polyolefin cracking at the single catalyst particle level. Chemical Science, 2023, 14, 10068-10080.	7.8	10
41	Halide-guided active site exposure in bismuth electrocatalysts for selective CO ₂ conversion into formic acid. Nature Catalysis, 2023, 6, 796-806.	28.3	63
42	A sustainable alternative to bisphenol A. Nature Sustainability, 2023, 6, 1516-1517.	21.0	5
43	<i>Operando</i> time-gated Raman spectroscopy of solid catalysts. Catalysis Science and Technology, 2023, 13, 6366-6376.	4.2	1
44	Probing nearby molecular vibrations with lanthanide-doped nanocrystals. Nanoscale, 2023, 15, 16601-16611.	5.8	0
45	Mapping Temperature Heterogeneities during Catalytic CO ₂ Methanation with <i>Operando</i> Luminescence Thermometry. ACS Nano, 2023, 17, 20053-20061.	15.2	7
46	Green Additives in Chitosan-Based Bioplastic Films: Physical, Mechanical, and Chemical Properties. ChemSusChem, 2023, 16, .	7.4	0
47	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.	6.5	5
48	Unravelling Channel Structure-Diffusivity Relationships in Zeolite ZSM-5 at the Single-Molecule Level. Angewandte Chemie, 2022, 134, .	2.1	6
49	Understanding the Effects of Binders in Gas Sorption and Acidity of Aluminium Fumarate Extrudates. Chemistry - A European Journal, 2022, 28, .	3.9	6
50	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.	4.2	15
51	Dual Fluorescence in Glutathione-Derived Carbon Dots Revisited. Journal of Physical Chemistry C, 2022, 126, 2720-2727.	3.3	12
52	The concept of active site in heterogeneous catalysis. Nature Reviews Chemistry, 2022, 6, 89-111.	22.6	297
53	Structure-Activity Relationships in Highly Active Platinum in MFI-type Zeolite Catalysts for Propane Dehydrogenation. ChemCatChem, 2022, 14, .	3.8	18
54	Enhanced Catalytic Performance through In Situ Encapsulation of Ultrafine Ru Clusters within a High-Aluminum Zeolite. ACS Catalysis, 2022, 12, 1847-1856.	11.7	45

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55	Uncovering the reaction mechanism behind CoO as active phase for CO ₂ hydrogenation. Nature Communications, 2022, 13, 324.	13.2	96
56	Tandem catalysis with double-shelled hollow spheres. Nature Materials, 2022, 21, 572-579.	26.7	90
57	Mechanistic Characterization of Zeolite-Catalyzed Aromatic Electrophilic Substitution at Realistic Operating Conditions. JACS Au, 2022, 2, 502-514.	8.3	21
58	New insights into the NH ₃ -selective catalytic reduction of NO over Cu-ZSM-5 as revealed by <i>in operando</i> spectroscopy. Catalysis Science and Technology, 2022, 12, 2589-2603.	4.2	13
59	Using Biomass Gasification Mineral Residue as Catalyst to Produce Light Olefins from CO, CO ₂ , and H ₂ Mixtures. ChemSusChem, 2022, 15, e202200436.	7.4	2
60	Emerging analytical methods to characterize zeolite-based materials. National Science Review, 2022, 9, .	9.5	12
61	Unravelling Channel Structure–Diffusivity Relationships in Zeolite ZSM-5 at the Single-Molecule Level (Angew. Chem. 5/2022). Angewandte Chemie, 2022, 134, .	2.1	0
62	Unravelling Channel Structure–Diffusivity Relationships in Zeolite ZSM-5 at the Single-Molecule Level. Angewandte Chemie - International Edition, 2022, 61, .	14.7	22
63	Favoring the Methane Oxychlorination Reaction over EuOCl by Synergistic Effects with Lanthanum. ACS Catalysis, 2022, 12, 5698-5710.	11.7	5
64	Hole Dynamics in Photoexcited Hematite Studied with Femtosecond Oxygen K-edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 4207-4214.	4.9	7
65	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.	14.6	9
66	Classification-based motion analysis of single-molecule trajectories using DiffusionLab. Scientific Reports, 2022, 12, .	3.5	7
67	Waste-Derived Copper-Lead Electrocatalysts for CO ₂ Reduction. ChemCatChem, 2022, 14, .	3.8	9
68	Giving oxygenates a new spin. Nature Catalysis, 2022, 5, 584-585.	28.3	3
69	Probing the Dynamics of Low-Overpotential CO ₂ -to-CO Activation on Copper Electrodes with Time-Resolved Raman Spectroscopy. Journal of the American Chemical Society, 2022, 144, 15047-15058.	14.6	43
70	Elucidating the Sectioning Fragmentation Mechanism in Silica-Supported Olefin Polymerization Catalysts with Laboratory-Based X-Ray and Electron Microscopy. ChemCatChem, 2022, 14, .	3.8	5
71	A Ziegler-type spherical cap model reveals early stage ethylene polymerization growth versus catalyst fragmentation relationships. Nature Communications, 2022, 13, .	13.2	6
72	Probing coke formation during the methanol-to-hydrocarbon reaction on zeolite ZSM-5 catalyst at the nanoscale using tip-enhanced fluorescence microscopy. Catalysis Science and Technology, 2022, 12, 5795-5801.	4.2	6

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73	Operando Laboratory-Based Multi-Edge X-Ray Absorption Near-Edge Spectroscopy of Solid Catalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.7	9
74	Operando Laboratory-Based Multi-Edge X-Ray Absorption Near-Edge Spectroscopy of Solid Catalysts. <i>Angewandte Chemie</i> , 2022, 134, .	2.1	1
75	Cover Feature: Elucidating the Sectioning Fragmentation Mechanism in Silica-Supported Olefin Polymerization Catalysts with Laboratory-Based X-Ray and Electron Microscopy (ChemCatChem) Tj ETQq1 1 0.384314 rgBT /Over		
76	Detecting Cage Crossing and Filling Clusters of Magnesium and Carbon Atoms in Zeolite SSZ-13 with Atom Probe Tomography. <i>Jacs Au</i> , 2022, 2, 2501-2513.	8.3	4
77	Structure Sensitivity of CO ₂ Conversion over Nickel Metal Nanoparticles Explained by Micro-Kinetics Simulations. <i>Jacs Au</i> , 2022, 2, 2714-2730.	8.3	40
78	Bifunctional Europium for <i>Operando</i> Catalyst Thermometry in an Exothermic Chemical Reaction. <i>Angewandte Chemie</i> , 2022, 134, .	2.1	0
79	Bifunctional Europium for <i>Operando</i> Catalyst Thermometry in an Exothermic Chemical Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.7	12
80	Advancing the Compositional Analysis of Olefin Polymerization Catalysts with High-Throughput Fluorescence Microscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 21287-21294.	14.6	3
81	Near-Unity Electrochemical CO ₂ to CO Conversion over Sn-Doped Copper Oxide Nanoparticles. <i>ACS Catalysis</i> , 2022, 12, 15146-15156.	11.7	24
82	Single catalyst particle diagnostics in a microreactor for performing multiphase hydrogenation reactions. <i>Faraday Discussions</i> , 2021, 229, 267-280.	3.7	6
83	Reaction Mechanism of Pd-Catalyzed α -CO-Free Carbonylation Reaction Uncovered by In Situ Spectroscopy: The Formyl Mechanism. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3422-3427.	14.7	9
84	<i>In situ</i> Nanoscale Infrared Spectroscopy of Water Adsorption on Nanoislands of Surface-Anchored Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1620-1624.	14.7	31
85	Effect of Mesoporosity, Acidity and Crystal Size of Zeolite ZSM-5 on Catalytic Performance during the <i>Ex situ</i> Catalytic Fast Pyrolysis of Biomass. <i>ChemCatChem</i> , 2021, 13, 1207-1219.	3.8	17
86	The nanogeochemistry of abiotic carbonaceous matter in serpentinites from the Yap Trench, western Pacific Ocean. <i>Geology</i> , 2021, 49, 330-334.	4.4	17
87	Catalytic Fast Pyrolysis of Biomass: Catalyst Characterization Reveals the Feed-Dependent Deactivation of a Technical ZSM-5-Based Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 291-304.	6.9	64
88	Reaction Mechanism of Pd-Catalyzed α -CO-Free Carbonylation Reaction Uncovered by In Situ Spectroscopy: The Formyl Mechanism. <i>Angewandte Chemie</i> , 2021, 133, 3464-3469.	2.1	3
89	<i>In situ</i> Nanoscale Infrared Spectroscopy of Water Adsorption on Nanoislands of Surface-Anchored Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 1644-1648.	2.1	5
90	Influence of Metal-Alkyls on Early-Stage Ethylene Polymerization over a Cr/SiO ₂ Phillips Catalyst: A Bulk Characterization and X-Ray Chemical Imaging Study. <i>Chemistry - A European Journal</i> , 2021, 27, 1688-1699.	3.9	11

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91	<i>In Situ</i> X-ray Raman Scattering Spectroscopy of the Formation of Cobalt Carbides in a Co/TiO ₂ Fischer-Tropsch Synthesis Catalyst. ACS Catalysis, 2021, 11, 809-819.	11.7	24
92	THEORETICAL MODELLING OF FUNCTIONAL MATERIALS. , 2021, , .		0
93	Visualizing defects and pore connectivity within metal-organic frameworks by X-ray transmission tomography. Chemical Science, 2021, 12, 8458-8467.	7.8	12
94	Rapid fabrication of MOF-based mixed matrix membranes through digital light processing. Materials Advances, 2021, 2, 2739-2749.	5.2	15
95	Early-stage particle fragmentation behavior of a commercial silica-supported metallocene catalyst. Catalysis Science and Technology, 2021, 11, 5335-5348.	4.2	18
96	Advanced approaches: general discussion. Faraday Discussions, 2021, 229, 378-421.	3.7	1
97	Identification of Photoexcited Electron Relaxation in a Cobalt Phosphide Modified Carbon Nitride Photocatalyst. ChemPhotoChem, 2021, 5, 330-334.	3.3	8
98	TOWARDS IN-SILICO DESIGN OF FUNCTIONAL MATERIALS. , 2021, , .		0
99	5-Hydroxy-2-Methylfurfural from Sugar Beet Thick Juice: Kinetic and Modeling Studies. ACS Sustainable Chemistry and Engineering, 2021, 9, 2626-2638.	6.9	5
100	On the Cobalt Carbide Formation in a Co/TiO ₂ 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.	11.7	37
101	Upscaling Effects on Alkali Metal-Grafted Ultrastable Y Zeolite Extrudates for Modeled Catalytic Deoxygenation of Bio-oils. ChemCatChem, 2021, 13, 1951-1965.	3.8	8
102	Single-molecule observation of diffusion and catalysis in nanoporous solids. Adsorption, 2021, 27, 423-452.	3.0	31
103	Influence of Pore Structure and Metal-Node Geometry on the Polymerization of Ethylene over Cr-Based Metal-Organic Frameworks. Chemistry - A European Journal, 2021, 27, 5769-5781.	3.9	6
104	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.	3.9	11
105	3D X-ray Nanotomography Reveals Different Carbon Deposition Mechanisms in a Single Catalyst Particle. ChemCatChem, 2021, 13, 2494-2507.	3.8	25
106	Single Trap States in Single CdSe Nanoplatelets. ACS Nano, 2021, 15, 7216-7225.	15.2	34
107	Femtosecond Charge Density Modulations in Photoexcited CuWO ₄ . Journal of Physical Chemistry C, 2021, 125, 7329-7336.	3.3	7
108	Mapping Elevated Temperatures with a Micrometer Resolution Using the Luminescence of Chemically Stable Upconversion Nanoparticles. ACS Applied Nano Materials, 2021, 4, 4208-4215.	5.2	61

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109	Transforming inactive coke molecules into active intermediates in zeolites. <i>Joule</i> , 2021, 5, 757-759.	24.7	2
110	Unravelling the effect of impurities on the methanol-to-olefins process in waste-derived zeolites ZSM-5. <i>Journal of Catalysis</i> , 2021, 396, 136-147.	6.5	16
111	Innentitelbild: Chemical Imaging of Hierarchical Porosity Formation within a Zeolite Crystal Visualized by Small-Angle X-Ray Scattering and In-Situ Fluorescence Microscopy (<i>Angew. Chem.</i> 25/2021). <i>Angewandte Chemie</i> , 2021, 133, 13802-13802.	2.1	0
112	Chemical targets to deactivate biological and chemical toxins using surfaces and fabrics. <i>Nature Reviews Chemistry</i> , 2021, 5, 370-387.	22.6	53
113	Chemical Imaging of Hierarchical Porosity Formation within a Zeolite Crystal Visualized by Small-Angle X-Ray Scattering and In-Situ Fluorescence Microscopy. <i>Angewandte Chemie</i> , 2021, 133, 13922-13925.	2.1	2
114	Chemical Imaging of Hierarchical Porosity Formation within a Zeolite Crystal Visualized by Small-Angle X-Ray Scattering and In-Situ Fluorescence Microscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13803-13806.	14.7	10
115	Photoinduced Force Microscopy as an Efficient Method Towards the Detection of Nanoplastics. <i>Chemistry Methods</i> , 2021, 1, 205-209.	4.8	12
116	Crystal Phase Effects on the Gas-Phase Ketonization of Small Carboxylic Acids over TiO ₂ Catalysts. <i>ChemSusChem</i> , 2021, 14, 2710-2720.	7.4	17
117	Efficient Synthesis of Monomeric Fe Species in Zeolite ZSM-5 for the Low-Temperature Oxidation of Methane. <i>ChemCatChem</i> , 2021, 13, 2766-2770.	3.8	17
118	Heterogeneity in the Fragmentation of Ziegler Catalyst Particles during Ethylene Polymerization Quantified by X-ray Nanotomography. <i>Jacs Au</i> , 2021, 1, 852-864.	8.3	22
119	Highly Selective Oxidation of Methane into Methanol over Cu-Promoted Monomeric Fe/ZSM-5. <i>ACS Catalysis</i> , 2021, 11, 6684-6691.	11.7	86
120	Separation and Purification of Hydrocarbons with Porous Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18930-18949.	14.7	141
121	Separation and Purification of Hydrocarbons with Porous Materials. <i>Angewandte Chemie</i> , 2021, 133, 19078-19097.	2.1	2
122	Sub-Second Time-Resolved Surface-Enhanced Raman Spectroscopy Reveals Dynamic CO Intermediates during Electrochemical CO ₂ Reduction on Copper. <i>Angewandte Chemie</i> , 2021, 133, 16712-16720.	2.1	17
123	Sub-Second Time-Resolved Surface-Enhanced Raman Spectroscopy Reveals Dynamic CO Intermediates during Electrochemical CO ₂ Reduction on Copper. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16576-16584.	14.7	172
124	Plastic Waste Conversion over a Refinery Waste Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16101-16108.	14.7	95
125	Plastic Waste Conversion over a Refinery Waste Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 16237-16244.	2.1	8
126	Water-active site interactions in zeolites and their relevance in catalysis. <i>Trends in Chemistry</i> , 2021, 3, 456-468.	9.0	36

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127	Operando Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy of the NO Reduction Reaction over Rhodium-Based Catalysts. <i>ChemPhysChem</i> , 2021, 22, 1595-1602.	2.3	6
128	Nanoscale Chemical Imaging in Zeolite Catalysts by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2021, 27, 984-985.	0.4	0
129	The active phase in cobalt-based Fischer-Tropsch synthesis. <i>Chem Catalysis</i> , 2021, 1, 339-363.	6.4	55
130	Calcination temperature effects on Pd/alumina catalysts: Particle size, surface species and activity in methane combustion. <i>Catalysis Today</i> , 2021, 382, 120-129.	4.9	25
131	Mechanistic Insights into the Lanthanide-Catalyzed Oxychlorination of Methane as Revealed by <i>Operando</i> Spectroscopy. <i>ACS Catalysis</i> , 2021, 11, 10574-10588.	11.7	8
132	Crowded catalyst, better catalyst. <i>National Science Review</i> , 2021, 8, nwab141.	9.5	3
133	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23713-23721.	14.7	51
134	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. <i>Angewandte Chemie</i> , 2021, 133, 23906-23914.	2.1	11
135	Detection of Spontaneous FeOOH Formation at the Hematite/Ni(Fe)OOH Interface During Photoelectrochemical Water Splitting by <i>Operando</i> X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2021, 11, 12324-12335.	11.7	21
136	Monitoring Aqueous Phase Reactions by <i>Operando</i> ATR-IR Spectroscopy at High Temperature and Pressure: A Biomass Conversion Showcase. <i>Chemistry Methods</i> , 2021, 1, 468-476.	4.8	2
137	Understanding Water-Zeolite Interactions: On the Accuracy of Density Functionals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20261-20274.	3.3	15
138	Propane to olefins tandem catalysis: a selective route towards light olefins production. <i>Chemical Society Reviews</i> , 2021, 50, 11503-11529.	40.3	133
139	New insights into the biphasic CO-free Pauson-Khand cyclisation reaction through combined <i>in situ</i> spectroscopy and multiple linear regression modelling. <i>Catalysis Science and Technology</i> , 2021, 11, 1626-1636.	4.2	1
140	Stabilization effects in binary colloidal Cu and Ag nanoparticle electrodes under electrochemical CO ₂ reduction conditions. <i>Nanoscale</i> , 2021, 13, 4835-4844.	5.8	34
141	Identifying key mononuclear Fe species for low-temperature methane oxidation. <i>Chemical Science</i> , 2021, 12, 3152-3160.	7.8	57
142	Mimicking industrial aging in fluid catalytic cracking: A correlative microscopy approach to unravel inter-particle heterogeneities. <i>Journal of Catalysis</i> , 2021, 404, 634-646.	6.5	5
143	Correlating the Morphological Evolution of Individual Catalyst Particles to the Kinetic Behavior of Metallocene-Based Ethylene Polymerization Catalysts. <i>Jacs Au</i> , 2021, 1, 1996-2008.	8.3	17
144	X-ray nanotomography uncovers morphological heterogeneity in a polymerization catalyst at multiple reaction stages. <i>Chem Catalysis</i> , 2021, 1, 1413-1426.	6.4	6

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145	Production of Hexane-1,2,5,6-tetrol from Biorenewable Levoglucosanol over Pt-WO ₃ /TiO ₂ . ACS Sustainable Chemistry and Engineering, 2021, 9, 16123-16132.	6.9	4
146	Monitoring Molecular Weight Changes during Technical Lignin Depolymerization by Operando Attenuated Total Reflectance Infrared Spectroscopy and Chemometrics. ChemSusChem, 2021, 14, 5517-5524.	7.4	11
147	Toward an e-chemistree: Materials for electrification of the chemical industry. MRS Bulletin, 2021, 46, 1187-1196.	4.2	35
148	Elucidation of the pre-nucleation phase directing metal-organic framework formation. Cell Reports Physical Science, 2021, 2, 100680.	5.8	15
149	High-throughput activity screening and sorting of single catalyst particles with a droplet microreactor using dielectrophoresis. Nature Catalysis, 2021, 4, 1070-1079.	28.3	26
150	Dynamic restructuring of supported metal nanoparticles and its implications for structure insensitive catalysis. Nature Communications, 2021, 12, 7096.	13.2	43
151	Stable niobia-supported nickel catalysts for the hydrogenation of carbon monoxide to hydrocarbons. Catalysis Today, 2020, 343, 56-62.	4.9	20
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