Christophe Coperet

List of Publications by Year
in descending order

400 papers	25,243 citations	4641 85 h-index	11581 135 g-index
451 all docs	451 docs citations	451 times ranked	15254 citing authors

#	Article	IF	Citations
1	Surface Intermediates in In-Based ZrO₂-Supported Catalysts for Hydrogenation of CO₂ to Methanol. Journal of Physical Chemistry C, 2022, 126, 1793-1799.	1.5	10
2	The Influence of ZnOâ^'ZrO₂ Interface in Hydrogenation of CO₂ to CH₃OH. Helvetica Chimica Acta, 2022, 105, .	1.0	9
3	DNP NMR spectroscopy enabled direct characterization of polystyrene-supported catalyst species for synthesis of glycidyl esters by transesterification. Chemical Science, 2022, 13, 4490-4497.	3.7	10
4	Probing Acid Sites in MOR Zeolite Using Low-Temperature ¹³C Solid-State NMR Spectroscopy of Adsorbed Carbon Monoxide. Journal of Physical Chemistry C, 2022, 126, 3681-3687.	1.5	9
5	Olefin-Surface Interactions: A Key Activity Parameter in Silica-Supported Olefin Metathesis Catalysts. Jacs Au, 2022, 2, 777-786.	3.6	8
6	Revisiting Edge Sites of Î³-Al₂O₃ Using Needle-Shaped Nanocrystals and Recoupling-Time-Encoded {²⁷Al}-¹H D-HMQC NMR Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 6351-6360.	1.5	4
7	Redox Dynamics of Active VO<i>_x</i> Sites Promoted by TiO<i>_x</i> during Oxidative Dehydrogenation of Ethanol Detected by <i>Operando</i> Quick XAS. Jacs Au, 2022, 2, 762-776.	3.6	14
8	Olefin Metathesis Catalysts Generated In Situ from Molybdenum(VI)â€Oxo Complexes by Tuning Pendant Ligands. Chemistry - A European Journal, 2022, , .	1.7	5
9	Bulk and surface transformations of Ga2O3 nanoparticle catalysts for propane dehydrogenation induced by a H2 treatment. Journal of Catalysis, 2022, 408, 155-164.	3.1	18
10	An Anionic Dinuclear Ruthenium Dihydrogen Complex of Relevance for Alkyne gemâ€Hydrogenation. Angewandte Chemie - International Edition, 2022, , .	7.2	5
11	Atomic-scale changes of silica-supported catalysts with nanocrystalline or amorphous gallia phases: implications of hydrogen pretreatment on their selectivity for propane dehydrogenation. Catalysis Science and Technology, 2022, 12, 3957-3968.	2.1	7
12	Multiple Surface Site Three-Dimensional Structure Determination of a Supported Molecular Catalyst. Journal of the American Chemical Society, 2022, 144, 10270-10281.	6.6	9
13	Structure and Framework Association of Lewis Acid Sites in MOR Zeolite. Journal of the American Chemical Society, 2022, 144, 10377-10385.	6.6	23
14	Cationic molybdenum oxo alkylidenes stabilized by N-heterocyclic carbenes: from molecular systems to efficient supported metathesis catalysts. Chemical Science, 2022, 13, 8649-8656.	3.7	5
15	Single-Site Iridium Picolinamide Catalyst Immobilized onto Silica for the Hydrogenation of CO₂ and the Dehydrogenation of Formic Acid. Inorganic Chemistry, 2022, 61, 10575-10586.	1.9	19
16	A Robust and Efficient Propane Dehydrogenation Catalyst from Unexpectedly Segregated Pt₂Mn Nanoparticles. Journal of the American Chemical Society, 2022, 144, 13384-13393.	6.6	24
17	CO2 hydrogenation on Cu-catalysts generated from ZnII single-sites: Enhanced CH3OH selectivity compared to Cu/ZnO/Al2O3. Journal of Catalysis, 2021, 394, 266-272.	3.1	35
18	Molecular and supported Ti(<scp>iii</scp>)-alkyls: efficient ethylene polymerization driven by the Ï€-character of metalâ€"carbon bonds and back donation from a singly occupied molecular orbital. Chemical Science, 2021, 12, 780-792.	3.7	15

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19	Ultrathin Single Crystalline MgO(111) Nanosheets**. Angewandte Chemie, 2021, 133, 3291-3297.	1.6	1
20	Ultrathin Single Crystalline MgO(111) Nanosheets**. Angewandte Chemie - International Edition, 2021, 60, 3254-3260.	7.2	29
21	Selective oxidation of methane to methanol on dispersed copper on alumina from readily available copper(ii) formate. Catalysis Science and Technology, 2021, 11, 5484-5490.	2.1	1
22	Heterogeneous alkane dehydrogenation catalysts investigated <i>via</i> a surface organometallic chemistry approach. Chemical Society Reviews, 2021, 50, 5806-5822.	18.7	56
23	Surface organometallic and coordination chemistry approach to formation of single site heterogeneous catalysts. , 2021, , .		0
24	Propane Dehydrogenation on Ga₂O₃-Based Catalysts: Contrasting Performance with Coordination Environment and Acidity of Surface Sites. ACS Catalysis, 2021, 11, 907-924.	5.5	55
25	Olefin metathesis: what have we learned about homogeneous and heterogeneous catalysts from surface organometallic chemistry?. Chemical Science, 2021, 12, 3092-3115.	3.7	43
26	Boosting the Metathesis Activity of Molybdenum Oxo Alkylidenes by Tuning the Anionic Ligand Ïƒ Donation. Inorganic Chemistry, 2021, 60, 6875-6880.	1.9	9
27	Strain in Silica-Supported Ga(III) Sites: Neither Too Much nor Too Little for Propane Dehydrogenation Catalytic Activity. Inorganic Chemistry, 2021, 60, 6865-6874.	1.9	20
28	Olefin Epoxidation Catalyzed by Titaniumâ€"Salalen Complexes: Synergistic H₂O₂ Activation by Dinuclear Ti Sites, Ligand H-Bonding, and Ï€-Acidity. ACS Catalysis, 2021, 11, 3206-3217.	5.5	13
29	Nuclear Magnetic Resonance: A Spectroscopic Probe to Understand the Electronic Structure and Reactivity of Molecules and Materials. Journal of Physical Chemistry Letters, 2021, 12, 2072-2085.	2.1	31
30	Lewis Acid Strength of Interfacial Metal Sites Drives CH₃OH Selectivity and Formation Rates on Cuâ€Based CO₂ Hydrogenation Catalysts. Angewandte Chemie, 2021, 133, 9736-9745.	1.6	4
31	Silica-Supported PdGa Nanoparticles: Metal Synergy for Highly Active and Selective CO₂-to-CH₃OH Hydrogenation. Jacs Au, 2021, 1, 450-458.	3.6	31
32	Lewis Acid Strength of Interfacial Metal Sites Drives CH₃OH Selectivity and Formation Rates on Cuâ€Based CO₂ Hydrogenation Catalysts. Angewandte Chemie - International Edition, 2021, 60, 9650-9659.	7.2	43
33	Atomic-Scale Structure and Its Impact on Chemical Properties of Aluminum Oxide Layers Prepared by Atomic Layer Deposition on Silica. Chemistry of Materials, 2021, 33, 3335-3348.	3.2	23
34	Leveraging Surface Siloxide Electronics to Enhance the Relaxation Properties of a Single-Molecule Magnet. Journal of the American Chemical Society, 2021, 143, 5438-5444.	6.6	16
35	Well-Defined, Silica-Supported Homobimetallic Nickel Hydride Hydrogenation Catalyst. Inorganic Chemistry, 2021, 60, 5483-5487.	1.9	3
36	Deciphering Metalâ€"Oxide and Metalâ€"Metal Interplay via Surface Organometallic Chemistry: A Case Study with CO₂ Hydrogenation to Methanol. Journal of the American Chemical Society, 2021, 143, 6767-6780.	6.6	48

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37	Deciphering the Phillips Catalyst by Orbital Analysis and Supervised Machine Learning from Cr Pre-edge XANES of Molecular Libraries. Journal of the American Chemical Society, 2021, 143, 7326-7341.	6.6	26
38	Spectroscopic Signature and Structure of the Active Sites in Zieglerâ€“Natta Polymerization Catalysts Revealed by Electron Paramagnetic Resonance. Journal of the American Chemical Society, 2021, 143, 9791-9797.	6.6	19
39	Methaneâ€toâ€Methanol on Mononuclear Copper(II) Sites Supported on Al₂O₃: Structure of Active Sites from Electron Paramagnetic Resonance**. Angewandte Chemie, 2021, 133, 16336-16343.	1.6	7
40	A Molecular Analogue of the Câˆ'H Activation Intermediate of the Silicaâ€Supported Ga(III) Singleâ€Site Propane Dehydrogenation Catalyst: Structure and XANES Signature. Helvetica Chimica Acta, 2021, 104, e2100078.	1.0	6
41	Methaneâ€toâ€Methanol on Mononuclear Copper(II) Sites Supported on Al₂O₃: Structure of Active Sites from Electron Paramagnetic Resonance**. Angewandte Chemie - International Edition, 2021, 60, 16200-16207.	7.2	15
42	Phase Coexistence and Structural Dynamics of Redox Metal Catalysts Revealed by Operando TEM. Advanced Materials, 2021, 33, e2101772.	11.1	25
43	DNP-SENS Formulation Protocols To Study Surface Sites in Zieglerâ€“Natta Catalyst MgCl₂ Supports Modified with Internal Donors. Journal of Physical Chemistry C, 2021, 125, 15994-16003.	1.5	16
44	Dynamics and Site Isolation: Keys to High Propane Dehydrogenation Performance of Silica-Supported PtGa Nanoparticles. Jacs Au, 2021, 1, 1445-1458.	3.6	32
45	Acidity of Alâ€“O(H)â€“Al Sites in Molecular Aluminosilicate Models Enables Alcohol Dehydration Reactions. Journal of Physical Chemistry C, 2021, 125, 17690-17695.	1.5	0
46	Single sites in heterogeneous catalysts: separating myth from reality. Trends in Chemistry, 2021, 3, 850-862.	4.4	23
47	Shape and Surface Morphology of Copper Nanoparticles under CO2 Hydrogenation Conditions from First Principles. Journal of Physical Chemistry C, 2021, 125, 396-409.	1.5	15
48	Structural insight into an atomic layer deposition (ALD) grown Al₂O₃ layer on Ni/SiO₂: impact on catalytic activity and stability in dry reforming of methane. Catalysis Science and Technology, 2021, 11, 7563-7577.	2.1	10
49	Engineering the Cu/Mo2CTx (MXene) interface to drive CO2 hydrogenation to methanol. Nature Catalysis, 2021, 4, 860-871.	16.1	138
50	Development and Molecular Understanding of a Pdâ€Catalyzed Cyanation of Aryl Boronic Acids Enabled by Highâ€Throughput Experimentation and Data Analysis. Helvetica Chimica Acta, 2021, 104, e2100200.	1.0	11
51	Atomically dispersed iridium on MgO(111) nanosheets catalyses benzeneâ€“ethylene coupling towards styrene. Nature Catalysis, 2021, 4, 968-975.	16.1	35
52	Uncovering selective and active Ga surface sites in galliaâ€“alumina mixed-oxide propane dehydrogenation catalysts by dynamic nuclear polarization surface enhanced NMR spectroscopy. Chemical Science, 2021, 12, 15273-15283.	3.7	10
53	Understanding X-ray absorption spectra by means of descriptors and machine learning algorithms. Npj Computational Materials, 2021, 7, .	3.5	48
54	Small and Narrowly Distributed Copper Nanoparticles Supported on Carbon Prepared by Surface Organometallic Chemistry for Selective Hydrogenation and CO 2 Electroconversion Processes. ChemCatChem, 2020, 12, 305-313.	1.8	9

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55	Silica-supported, narrowly distributed, subnanometric Ptâ€“Zn particles from single sites with high propane dehydrogenation performance. Chemical Science, 2020, 11, 1549-1555.	3.7	77
56	DNP NMR spectroscopy of cross-linked organic polymers: rational guidelines towards optimal sample preparation. Physical Chemistry Chemical Physics, 2020, 22, 3184-3190.	1.3	13
57	Silicaâ€Supported Cationic Tungsten Imido Alkylidene Stabilized by an N â€Heterocyclic Carbene Ligand Boosts Activity and Selectivity in the Metathesis of Î±â€Olefins. Helvetica Chimica Acta, 2020, 103, e2000161.	1.0	10
58	Spirocyclic Nitroxide Biradicals: Synthesis and Evaluation as Dynamic Nuclear Polarizing Agents. Helvetica Chimica Acta, 2020, 103, e2000179.	1.0	2
59	Efficient epoxidation over dinuclear sites in titanium silicalite-1. Nature, 2020, 586, 708-713.	13.7	158
60	The Structure of Molecular and Surface Platinum Sites Determined by DNP-SENS and Fast MAS¹⁹⁵Pt Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2020, 142, 18936-18945.	6.6	35
61	Nâ€Heterocyclic Carbene Coordination to Surface Copper Sites in Selective Semihydrogenation Catalysts from Solidâ€State NMR Spectroscopy. Angewandte Chemie, 2020, 132, 20174-20182.	1.6	3
62	183 W NMR Spectroscopy Guides the Search for Tungsten Alkylidyne Catalysts for Alkyne Metathesis. Angewandte Chemie, 2020, 132, 21942-21952.	1.6	1
63	¹⁸³W NMR Spectroscopy Guides the Search for Tungsten Alkylidyne Catalysts for Alkyne Metathesis. Angewandte Chemie - International Edition, 2020, 59, 21758-21768.	7.2	22
64	Reactivity of Substituted Benzenes toward Oxidative Addition Relates to NMR Chemical Shift of the Ipso-Carbon. Organic Letters, 2020, 22, 8910-8915.	2.4	5
65	Metalâ€Surface Interactions and Surface Heterogeneity in â€˜Wellâ€Definedâ€™ Silicaâ€Supported Alkene Metathesis Catalysts: Evidences and Consequences. Helvetica Chimica Acta, 2020, 103, e2000072.	1.0	10
66	Probing the Electronic Structure of Spectator Oxo Ligands by 17O NMR Spectroscopy. Chimia, 2020, 74, 225.	0.3	1
67	Molecular Approach to Generate Cu(II) Sites on Silica for the Selective Partial Oxidation of Methane. Chimia, 2020, 74, 237.	0.3	2
68	Silicaâ€Grafted Tris(neopentyl)aluminum: A Monomeric Aluminum Solid Coâ€catalyst for Efficient Nickelâ€Catalyzed Ethene Dimerization. Angewandte Chemie, 2020, 132, 16301-16306.	1.6	1
69	â€œCanopy Catalystsâ€•for Alkyne Metathesis: Molybdenum Alkylidyne Complexes with a Tripodal Ligand Framework. Journal of the American Chemical Society, 2020, 142, 11279-11294.	6.6	56
70	Electronegativity and location of anionic ligands drive yttrium NMR for molecular, surface and solid-state structures. Chemical Science, 2020, 11, 6724-6735.	3.7	15
71	Molecular-level insight in supported olefin metathesis catalysts by combining surface organometallic chemistry, high throughput experimentation, and data analysis. Chemical Science, 2020, 11, 6717-6723.	3.7	17
72	Nonâ€oxidative Methane Coupling over Silica versus Silicaâ€Supported Iron(II) Single Sites. Chemistry - A European Journal, 2020, 26, 8012-8016.	1.7	21

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73	Acrylate Esters by Ethenolysis of Maleate Esters with Ru Metathesis Catalysts: an HTE and a Technoeconomic Study. Helvetica Chimica Acta, 2020, 103, e2000035.	1.0	10
74	Metal Alkyls with Alkylidynic Metalâ€Carbon Bond Character: Key Electronic Structures in Alkane Metathesis Precatalysts. Angewandte Chemie, 2020, 132, 7101-7107.	1.6	0
75	Atomically Dispersed Iridium on Indium Tin Oxide Efficiently Catalyzes Water Oxidation. ACS Central Science, 2020, 6, 1189-1198.	5.3	47
76	Nâ€Heterocyclic Carbene Coordination to Surface Copper Sites in Selective Semihydrogenation Catalysts from Solidâ€State NMR Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 19999-20007.	7.2	24
77	Bulk and Nanocrystalline Cesium Lead-Halide Perovskites as Seen by Halide Magnetic Resonance. ACS Central Science, 2020, 6, 1138-1149.	5.3	43
78	Understanding 125Te NMR chemical shifts in disymmetric organo-telluride compounds from natural chemical shift analysis. Physical Chemistry Chemical Physics, 2020, 22, 2319-2326.	1.3	16
79	Enhanced CH₃OH selectivity in CO₂ hydrogenation using Cu-based catalysts generated <i>via</i> SOMC from Ga^{III} single-sites. Chemical Science, 2020, 11, 7593-7598.	3.7	30
80	Colloidal-ALD-Grown Core/Shell CdSe/CdS Nanoplatelets as Seen by DNP Enhanced PASSâ€“PIETA NMR Spectroscopy. Nano Letters, 2020, 20, 3003-3018.	4.5	24
81	Câˆ’H Activation and Olefin Insertion in d⁸ and d⁰ Complexes: Same Elementary Steps, Different Electronics. Helvetica Chimica Acta, 2020, 103, e1900278.	1.0	8
82	Metal Alkyls with Alkylidynic Metalâ€Carbon Bond Character: Key Electronic Structures in Alkane Metathesis Precatalysts. Angewandte Chemie - International Edition, 2020, 59, 7035-7041.	7.2	10
83	Cp₂Ti(Îº²<i>-</i>^{<i>t</i>}BuNCN^{<i>t</i>}Bu): A Complex with an Unusual Îº² Coordination Mode of a Heterocumulene Featuring a Free Carbene. Journal of the American Chemical Society, 2020, 142, 8006-8018.	6.6	24
84	A Formulation Protocol with Pyridine to Enable Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy on Reactive Surface Sites: Case Study with Olefin Polymerization and Metathesis Catalysts. Journal of Physical Chemistry Letters, 2020, 11, 3401-3407.	2.1	12
85	Silicaâ€Grafted Tris(neopentyl)aluminum: A Monomeric Aluminum Solid Coâ€catalyst for Efficient Nickelâ€Catalyzed Ethene Dimerization. Angewandte Chemie - International Edition, 2020, 59, 16167-16172.	7.2	8
86	CO₂ Hydrogenation on Cu/Al₂O₃: Role of the Metal/Support Interface in Driving Activity and Selectivity of a Bifunctional Catalyst. Angewandte Chemie, 2019, 131, 14127-14134.	1.6	21
87	CO₂ Hydrogenation on Cu/Al₂O₃: Role of the Metal/Support Interface in Driving Activity and Selectivity of a Bifunctional Catalyst. Angewandte Chemie - International Edition, 2019, 58, 13989-13996.	7.2	112
88	Carbon-13 NMR Chemical Shift: A Descriptor for Electronic Structure and Reactivity of Organometallic Compounds. Accounts of Chemical Research, 2019, 52, 2278-2289.	7.6	80
89	<i>Operando</i> X-ray characterization of high surface area iridium oxides to decouple their activity losses for the oxygen evolution reaction. Energy and Environmental Science, 2019, 12, 3038-3052.	15.6	90
90	Specific Localization of Aluminum Sites Favors Ethene-to-Propene Conversion on (Al)MCM-41-Supported Ni(II) Single Sites. ACS Catalysis, 2019, 9, 7476-7485.	5.5	24

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91	Well-Defined Silica-Supported Tungsten(IV)â€“Oxo Complex: Olefin Metathesis Activity, Initiation, and Role of BrÃ¸nsted Acid Sites. Journal of the American Chemical Society, 2019, 141, 18286-18292.	6.6	24
92	Silicaâ€Supported MnIISites as Efficient Catalysts for Carbonyl Hydroboration, Hydrosilylation, and Transesterification. Chemistry - A European Journal, 2019, 25, 13869-13873.	1.7	15
93	Zr(IV) surface sites determine CH3OH formation rate on Cu/ZrO2/SiO2 - CO2 hydrogenation catalysts. Chinese Journal of Catalysis, 2019, 40, 1741-1748.	6.9	22
94	Lewis acidic supports promote the selective hydrogenation of carbon dioxide to methyl formate in the presence of methanol over Ag catalysts. Journal of Catalysis, 2019, 380, 153-160.	3.1	27
95	Molecular and Silicaâ€Supported Mo and W d⁰ Imidoâ€Methoxybenzylidene Complexes: Structure and Metathesis Activity. Helvetica Chimica Acta, 2019, 102, e1900190.	1.0	5
96	Metal Olefin Complexes: Revisiting the<i>Dewar</i>âˆ'<i>Chatt</i>âˆ'<i>Duncanson</i>Model and Deriving Reactivity Patterns from Carbonâ€13 NMR Chemical Shift. Helvetica Chimica Acta, 2019, 102, e1900151.	1.0	22
97	Fully Dehydroxylated Silica Generated from Hydrosilane: Surface Defects and Reactivity. Journal of Physical Chemistry C, 2019, 123, 23480-23487.	1.5	3
98	Combined Experimental and Theoretical Molecular Approach of the Catalytically Active Hydrotreating MoS₂ Phases Promoted by 3d Transition Metals. Journal of Physical Chemistry C, 2019, 123, 24659-24669.	1.5	8
99	Bi-functional Ru/Ca3Al2O6â€“CaO catalyst-CO2 sorbent for the production of high purity hydrogen via sorption-enhanced steam methane reforming. Catalysis Science and Technology, 2019, 9, 5745-5756.	2.1	25
100	Oxygen transfer in electrophilic epoxidation probed by 17O NMR: differentiating between oxidants and role of spectator metal oxo. Chemical Science, 2019, 10, 1786-1795.	3.7	16
101	Selective hydrogenation of Î±,Î²-unsaturated carbonyl compounds on silica-supported copper nanoparticles. Chemical Communications, 2019, 55, 179-181.	2.2	17
102	Molecular-level understanding of support effects on the regenerability of Ru-based catalysts in the sulfur-poisoned methanation reaction. Journal of Catalysis, 2019, 375, 74-80.	3.1	14
103	Noncovalent Interactions Drive the Efficiency of Molybdenum Imido Alkylidene Catalysts for Olefin Metathesis. Journal of the American Chemical Society, 2019, 141, 10788-10800.	6.6	22
104	Efficient CO₂ Hydrogenation to Formate with Immobilized Irâ€Catalysts Based on Mesoporous Silica Beads. Chemistry - A European Journal, 2019, 25, 9443-9446.	1.7	17
105	Single-Sites and Nanoparticles at Tailored Interfaces Prepared via Surface Organometallic Chemistry from Thermolytic Molecular Precursors. Accounts of Chemical Research, 2019, 52, 1697-1708.	7.6	89
106	Facile Fischerâ€“Tropsch Chain Growth from CH₂ Monomers Enabled by the Dynamic CO Adlayer. ACS Catalysis, 2019, 9, 6571-6582.	5.5	20
107	Monomeric Copper(II) Sites Supported on Alumina Selectively Convert Methane to Methanol. Angewandte Chemie - International Edition, 2019, 58, 9841-9845.	7.2	55
108	Silicaâ€Supported Molybdenum Oxo Alkylidenes: Bridging the Gap between Internal and Terminal Olefin Metathesis. Angewandte Chemie, 2019, 131, 11942-11945.	1.6	3

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109	Chemical Shift Tensors â€“ Why Should We Care?. Chimia, 2019, 73, 252.	0.3	3
110	Monomeric Copper(II) Sites Supported on Alumina Selectively Convert Methane to Methanol. Angewandte Chemie, 2019, 131, 9946-9950.	1.6	20
111	A reactive coordinatively saturated Mo(<scp>iii</scp>) complex: exploiting the hemi-lability of tris(<i>tert</i>-butoxy)silanolate ligands. Chemical Science, 2019, 10, 6362-6367.	3.7	21
112	Silicaâ€Supported Molybdenum Oxo Alkylidenes: Bridging the Gap between Internal and Terminal Olefin Metathesis. Angewandte Chemie - International Edition, 2019, 58, 11816-11819.	7.2	19
113	Alkyne <i>gem</i>â€Hydrogenation: Formation of Pianostool Ruthenium Carbene Complexes and Analysis of Their Chemical Character. Angewandte Chemie - International Edition, 2019, 58, 8845-8850.	7.2	40
114	Alkyne <i>gem</i>â€Hydrogenation: Formation of Pianostool Ruthenium Carbene Complexes and Analysis of Their Chemical Character. Angewandte Chemie, 2019, 131, 8937-8942.	1.6	20
115	Ionic Conduction Mechanism in the Na₂(B₁₂H₁₂)_{0.5}(B₁₀H₁₀)_{0.5} <i>closo</i>-Borate Solid-State Electrolyte: Interplay of Disorder and Ionâ€“Ion Interactions. Chemistry of Materials, 2019, 31, 3449-3460.	3.2	54
116	Metal(II) Formates (Mâ€‰=â€‰Fe, Co, Ni, and Cu) Stabilized by Tetramethylethylenediamine (tmeda): Convenient Molecular Precursors for the Synthesis of Supported Nanoparticles. Helvetica Chimica Acta, 2019, 102, e1800227.	1.0	3
117	CO methanation on ruthenium flat and stepped surfaces: Key role of H-transfers and entropy revealed by ab initio molecular dynamics. Journal of Catalysis, 2019, 371, 270-275.	3.1	15
118	One- and Two-Dimensional High-Resolution NMR from Flat Surfaces. ACS Central Science, 2019, 5, 515-523.	5.3	17
119	Proton-Detected Multidimensional Solid-State NMR Enables Precise Characterization of Vanadium Surface Species at Natural Abundance. Journal of Physical Chemistry Letters, 2019, 10, 7898-7904.	2.1	12
120	Fuels and energy carriers from single-site catalysts prepared via surface organometallic chemistry. Nature Energy, 2019, 4, 1018-1024.	19.8	34
121	CO2 Hydrogenation to CH3OH on Supported Cu Nanoparticles: Nature and Role of Ti in Bulk Oxides vs Isolated Surface Sites. Journal of Physical Chemistry C, 2019, 123, 31082-31093.	1.5	19
122	CO₂ Hydrogenation to Formate with Immobilized Ruâ€Catalysts Based on Hybrid Organoâ€Silica Mesostructured Materials. ChemCatChem, 2019, 11, 430-434.	1.8	24
123	Small, Narrowly Distributed Iridium Nanoparticles Supported on Indium Tin Oxide for Efficient Anodic Water Oxidation. ACS Applied Energy Materials, 2019, 2, 196-200.	2.5	25
124	Selective Hydrogenation of CO₂ to CH₃OH on Supported Cu Nanoparticles Promoted by Isolated Ti^{IV} Surface Sites on SiO₂. ChemSusChem, 2019, 12, 968-972.	3.6	47
125	Ï€-Bond Character in Metalâ€“Alkyl Compounds for Câ€“H Activation: How, When, and Why?. Journal of the American Chemical Society, 2019, 141, 648-656.	6.6	46
126	A Combined a-SAXS and XAS Study of the Operando Compositional and Morphological Changes Undergone By High Surface Area IrO2 Oxygen Evolution Electrocatalysts. ECS Meeting Abstracts, 2019, , .	0.0	0

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127	Dynamic Nuclear Polarization Surface Enhanced NMR spectroscopy (DNP SENS): Principles, protocols, and practice. Current Opinion in Colloid and Interface Science, 2018, 33, 63-71.	3.4	58
128	Tailored Microstructured Hyperpolarizing Matrices for Optimal Magnetic Resonance Imaging. Angewandte Chemie - International Edition, 2018, 57, 7453-7457.	7.2	24
129	Chelating Nâ€Heterocyclic Carbene Ligands Enable Tuning of Electrocatalytic CO₂ Reduction to Formate and Carbon Monoxide: Surface Organometallic Chemistry. Angewandte Chemie, 2018, 130, 5075-5079.	1.6	39
130	Facile Synthesis of Unsymmetrical Trialkoxysilanols: (RO)₂(Râ€²O)SiOH. Helvetica Chimica Acta, 2018, 101, e1700298.	1.0	5
131	Conformal Deposition of Conductive Single-Crystalline Cobalt Silicide Layer on Si Wafer via a Molecular Approach. Chemistry of Materials, 2018, 30, 2168-2173.	3.2	2
132	Chelating Nâ€Heterocyclic Carbene Ligands Enable Tuning of Electrocatalytic CO₂ Reduction to Formate and Carbon Monoxide: Surface Organometallic Chemistry. Angewandte Chemie - International Edition, 2018, 57, 4981-4985.	7.2	110
133	Discerning Î³-Alumina Surface Sites with Nitrogen-15 Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy of Adsorbed Pyridine. Journal of Physical Chemistry C, 2018, 122, 10871-10882.	1.5	45
134	Integrated CO₂ Capture and Conversion as an Efficient Process for Fuels from Greenhouse Gases. ACS Catalysis, 2018, 8, 2815-2823.	5.5	168
135	Silicaâ€Supported Pentamethylcyclopentadienyl Ytterbium(II) and Samarium(II) Sites: Ultrahigh Molecular Weight Polyethylene without Coâ€Catalyst. Angewandte Chemie - International Edition, 2018, 57, 3431-3434.	7.2	19
136	Silicaâ€Supported Pentamethylcyclopentadienyl Ytterbium(II) and Samarium(II) Sites: Ultrahigh Molecular Weight Polyethylene without Coâ€Catalyst. Angewandte Chemie, 2018, 130, 3489-3492.	1.6	5
137	<i>In Situ</i> XRD and Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy Unravel the Deactivation Mechanism of CaO-Based, Ca₃Al₂O₆-Stabilized CO₂ Sorbents. Chemistry of Materials, 2018, 30, 1344-1352.	3.2	40
138	Benchmarked Intrinsic Olefin Metathesis Activity: Mo <i>vs</i>. W. Helvetica Chimica Acta, 2018, 101, e1700302.	1.0	23
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