Christophe Coperet

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2231832/publications.pdf

Version: 2024-02-01

400 papers	25,243 citations	5430 85 h-index	13274 135 g-index
451 all docs	451 docs citations	451 times ranked	17167 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_x Sites Promoted by TiO_x during Oxidative Dehydrogenation of Ethanol Detected by Operando 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

#	Article	IF	Citations
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 via 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

#	Article	IF	Citations
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 Câ'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

#	Article	IF	Citations
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

#	Article	IF	Citations
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 via 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	Câ^'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(Î¹²-^tBuNCN^tBu): A Complex with an Unusual Î¹² 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	Operando 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

#	Article	IF	Citations
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 theDewarâ^'Chattâ^'DuncansonModel 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

#	Article	IF	Citations
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(tert-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 gemâ€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 gemâ€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} closo-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

#	Article	IF	Citations
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	In Situ 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 vs. W. Helvetica Chimica Acta, 2018, 101, e1700302.	1.0	23
139	Metal alkyls programmed to generate metal alkylidenes by Î±-H abstraction: prognosis from NMR chemical shift. Chemical Science, 2018, 9, 1912-1918.	3.7	47
140	Alkyne Hydroamination Catalyzed by Silica-Supported Isolated Zn(II) Sites. Organometallics, 2018, 37, 1342-1345.	1.1	18
141	Tailored Microstructured Hyperpolarizing Matrices for Optimal Magnetic Resonance Imaging. Angewandte Chemie, 2018, 130, 7575-7579.	1.6	13
142	Silica-supported isolated molybdenum di-oxo species: formation and activation with organosilicon agent for olefin metathesis. Chemical Communications, 2018, 54, 3989-3992.	2.2	28
143	Methanol synthesis via CO₂ hydrogenation over CuOâ€“ZrO₂ prepared by two-nozzle flame spray pyrolysis. Catalysis Science and Technology, 2018, 8, 2056-2060.	2.1	45
144	Bridging the Gap between Industrial and Wellâ€Defined Supported Catalysts. Angewandte Chemie - International Edition, 2018, 57, 6398-6440.	7.2	193

#	Article	IF	Citations
145	Eine BrÃ¼cke zwischen industriellen und wohldefinierten TrÃ¤gerkatalysatoren. Angewandte Chemie, 2018, 130, 6506-6551.	1.6	39
146	The Key Ru^V=O Intermediate of Site-Isolated Mononuclear Water Oxidation Catalyst Detected by in Situ X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2018, 140, 451-458.	6.6	83
147	Nucleation and crystal formation in lithium disilicateâ€apatite glassâ€ceramic from a combined use of Xâ€ray diffraction, solidâ€state NMR, and microscopy. Helvetica Chimica Acta, 2018, 102, e1800210.	1.0	2
148	Decisive Role of Perimeter Sites in Silica-Supported Ag Nanoparticles in Selective Hydrogenation of CO₂ to Methyl Formate in the Presence of Methanol. Journal of the American Chemical Society, 2018, 140, 13884-13891.	6.6	37
149	BDPA-Nitroxide Biradicals Tailored for Efficient Dynamic Nuclear Polarization Enhanced Solid-State NMR at Magnetic Fields up to 21.1 T. Journal of the American Chemical Society, 2018, 140, 13340-13349.	6.6	99
150	Activation of O2by Organosilicon Reagents Yields Quantitative Amounts of H2O2or (Me3Si)2O2for Efficient O-Transfer Reactions. Helvetica Chimica Acta, 2018, 101, e1800156.	1.0	9
151	Promoting Terminal Olefin Metathesis with a Supported Cationic Molybdenum Imido Alkylidene Nâ€Heterocyclic Carbene Catalyst. Angewandte Chemie - International Edition, 2018, 57, 14566-14569.	7.2	39
152	Promoting Terminal Olefin Metathesis with a Supported Cationic Molybdenum Imido Alkylidene Nâ€Heterocyclic Carbene Catalyst. Angewandte Chemie, 2018, 130, 14774-14777.	1.6	13
153	An N-heterocyclic carbene ligand promotes highly selective alkyne semihydrogenation with copper nanoparticles supported on passivated silica. Chemical Science, 2018, 9, 5366-5371.	3.7	52
154	Electronic Structureâ€“Reactivity Relationship on Ruthenium Step-Edge Sites from Carbonyl 13C Chemical Shift Analysis. Journal of Physical Chemistry Letters, 2018, 9, 3348-3353.	2.1	9
155	Lowâ€Coordinated Titanium(III) Alkylâ€”Molecular and Surfaceâ€”Complexes: Detailed Structure from Advanced EPR Spectroscopy. Angewandte Chemie, 2018, 130, 14741-14745.	1.6	2
156	Lowâ€Coordinated Titanium(III) Alkylâ€”Molecular and Surfaceâ€”Complexes: Detailed Structure from Advanced EPR Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 14533-14537.	7.2	15
157	Resolving the Core and the Surface of CdSe Quantum Dots and Nanoplatelets Using Dynamic Nuclear Polarization Enhanced PASSâ€“PIETA NMR Spectroscopy. ACS Central Science, 2018, 4, 1113-1125.	5.3	46
158	Origin of ligand-driven selectivity in alkyne semihydrogenation over silica-supported copper nanoparticles. Journal of Catalysis, 2018, 364, 437-445.	3.1	21
159	Understanding Trends in ²⁷Al Chemical Shifts and Quadrupolar Coupling Constants in Chloroalkyl Aluminum [AlCl_x(Me)_{3Âˆ’Ãx}]_{nÂ=Â1 or 2} Compounds. Helvetica Chimica Acta, 2018, 101, e1800120.	1.0	8
160	Isolated Zr Surface Sites on Silica Promote Hydrogenation of CO₂ to CH₃OH in Supported Cu Catalysts. Journal of the American Chemical Society, 2018, 140, 10530-10535.	6.6	170
161	Highly Productive Propane Dehydrogenation Catalyst Using Silica-Supported Gaâ€“Pt Nanoparticles Generated from Single-Sites. Journal of the American Chemical Society, 2018, 140, 11674-11679.	6.6	161
162	Câ€“H Activation and Proton Transfer Initiate Alkene Metathesis Activity of the Tungsten(IV)â€“Oxo Complex. Journal of the American Chemical Society, 2018, 140, 11395-11401.	6.6	21

#	Article	IF	Citations
163	NMR chemical shift analysis decodes olefin oligo- and polymerization activity of d ⁰ group 4 metal complexes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5867-E5876.	3.3	40
164	Adlayer Dynamics Drives CO Activation in Ru-Catalyzed Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2018, 8, 6983-6992.	5.5	29
165	CONTROLLED FUNCTIONALISATION AND UNDERSTANDING OF SURFACES TOWARDS SINGLE SITE CATALYSTS AND BEYOND. , 2018, , .		1
166	Low-Temperature Wet Conformal Nickel Silicide Deposition for Transistor Technology through an Organometallic Approach. ACS Applied Materials & Interfaces, 2017, 9, 4948-4955.	4.0	1
167	CO₂â€toâ€Methanol Hydrogenation on Zirconiaâ€Supported Copper Nanoparticles: Reaction Intermediates and the Role of the Metalâ€“Support Interface. Angewandte Chemie - International Edition, 2017, 56, 2318-2323.	7.2	435
168	Cooperativity and Dynamics Increase the Performance of NiFe Dry Reforming Catalysts. Journal of the American Chemical Society, 2017, 139, 1937-1949.	6.6	322
169	Magnetic Memory from Site Isolated Dy(III) on Silica Materials. ACS Central Science, 2017, 3, 244-249.	5.3	40
170	IrO₂-TiO₂: A High-Surface-Area, Active, and Stable Electrocatalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 2346-2352.	5.5	264
171	Formation of High-Oxidation-State Metalâ€“Carbon Double Bonds. Organometallics, 2017, 36, 1884-1892.	1.1	53
172	Understanding surface site structures and properties by first principles calculations: an experimental point of view!. Chemical Communications, 2017, 53, 4296-4303.	2.2	16
173	Molecularly Tailored Nickel Precursor and Support Yield a Stable Methane Dry Reforming Catalyst with Superior Metal Utilization. Journal of the American Chemical Society, 2017, 139, 6919-6927.	6.6	111
174	Tailored Polarizing Hybrid Solids with Nitroxide Radicals Localized in Mesostructured Silica Walls. Helvetica Chimica Acta, 2017, 100, e1700101.	1.0	24
175	Orbital Analysis of Carbonâ€13 Chemical Shift Tensors Reveals Patterns to Distinguish Fischer and Schrock Carbenes. Angewandte Chemie - International Edition, 2017, 56, 10127-10131.	7.2	57
176	Orbital Analysis of Carbonâ€13 Chemical Shift Tensors Reveals Patterns to Distinguish Fischer and Schrock Carbenes. Angewandte Chemie, 2017, 129, 10261-10265.	1.6	13
177	Highly Active and Stable Iridium Pyrochlores for Oxygen Evolution Reaction. Chemistry of Materials, 2017, 29, 5182-5191.	3.2	172
178	Metathesis Activity Encoded in the Metallacyclobutane Carbon-13 NMR Chemical Shift Tensors. ACS Central Science, 2017, 3, 759-768.	5.3	84
179	Unraveling Thermodynamics, Stability, and Oxygen Evolution Activity of Strontium Ruthenium Perovskite Oxide. ACS Catalysis, 2017, 7, 3245-3256.	5.5	113
180	CO₂â€toâ€Methanol Hydrogenation on Zirconiaâ€Supported Copper Nanoparticles: Reaction Intermediates and the Role of the Metalâ€“Support Interface. Angewandte Chemie, 2017, 129, 2358-2363.	1.6	51

#	Article	IF	Citations
181	Cu Nanoparticles on TiN by Electroless Deposition: Surfaceâ€Mediated Diameter Control and Application to Si Nanowires Growth. Helvetica Chimica Acta, 2017, 100, e1700018.	1.0	1
182	Strain effect and dual initiation pathway in CrIII/SiO2 polymerization catalysts from amorphous periodic models. Journal of Catalysis, 2017, 346, 50-56.	3.1	46
183	Silica-supported isolated gallium sites as highly active, selective and stable propane dehydrogenation catalysts. Chemical Science, 2017, 8, 2661-2666.	3.7	119
184	Phenylazide Hybridâ€Silica â€“ Polarization Platform for Dynamic Nuclear Polarization at Cryogenic Temperatures. Helvetica Chimica Acta, 2017, 100, e1600122.	1.0	6
185	Three-Dimensional Structure Determination of Surface Sites. Journal of the American Chemical Society, 2017, 139, 849-855.	6.6	75
186	Pairwise hydrogen addition in the selective semihydrogenation of alkynes on silica-supported Cu catalysts. Chemical Science, 2017, 8, 2426-2430.	3.7	28
187	Contrasting the Role of Ni/Al₂O₃ Interfaces in Waterâ€“Gas Shift and Dry Reforming of Methane. Journal of the American Chemical Society, 2017, 139, 17128-17139.	6.6	172
188	Site-isolated manganese carbonyl on bipyridine-functionalities of periodic mesoporous organosilicas: efficient CO₂ photoreduction and detection of key reaction intermediates. Chemical Science, 2017, 8, 8204-8213.	3.7	42
189	Role of Coordination Number, Geometry, and Local Disorder on ²⁷Al NMR Chemical Shifts and Quadrupolar Coupling Constants: Case Study with Aluminosilicates. Journal of Physical Chemistry C, 2017, 121, 19946-19957.	1.5	28
190	Supported Bimetallic NiFe Nanoparticles through Colloid Synthesis for Improved Dry Reforming Performance. ACS Catalysis, 2017, 7, 6942-6948.	5.5	77
191	Molecular Structure and Confining Environment of Sn Sites in Single-Site Chabazite Zeolites. Chemistry of Materials, 2017, 29, 8824-8837.	3.2	44
192	Olefin polymerization on Cr(III)/SiO2: Mechanistic insights from the differences in reactivity between ethene and propene. Journal of Catalysis, 2017, 354, 223-230.	3.1	24
193	Exploiting and Understanding the Selectivity of Ru-N-Heterocyclic Carbene Metathesis Catalysts for the Ethenolysis of Cyclic Olefins to Î±,Ï‰-Dienes. Journal of the American Chemical Society, 2017, 139, 13117-13125.	6.6	70
194	Role of Water, CO₂, and Noninnocent Ligands in the CO₂ Hydrogenation to Formate by an Ir(III) PNP Pincer Catalyst Evaluated by Static-DFT and ab Initio Molecular Dynamics under Reaction Conditions. Organometallics, 2017, 36, 4908-4919.	1.1	18
195	Proteinâ€“nucleotide contacts in motor proteins detected by DNP-enhanced solid-state NMR. Journal of Biomolecular NMR, 2017, 69, 157-164.	1.6	19
196	Molecular and Silica-Supported Molybdenum Alkyne Metathesis Catalysts: Influence of Electronics and Dynamics on Activity Revealed by Kinetics, Solid-State NMR, and Chemical Shift Analysis. Journal of the American Chemical Society, 2017, 139, 17597-17607.	6.6	80
197	Dynamic Nuclear Polarization Efficiency Increased by Very Fast Magic Angle Spinning. Journal of the American Chemical Society, 2017, 139, 10609-10612.	6.6	52
198	Surface Organometallic Chemistry: Paving the Way Beyond Well-Defined Supported Organometallics and Single-Site Catalysis. Catalysis Letters, 2017, 147, 2247-2259.	1.4	37

#	Article	IF	Citations
199	Active Sites in Supported Single-Site Catalysts: An NMR Perspective. Journal of the American Chemical Society, 2017, 139, 10588-10596.	6.6	103
200	Local Structures and Heterogeneity of Silica-Supported M(III) Sites Evidenced by EPR, IR, NMR, and Luminescence Spectroscopies. Journal of the American Chemical Society, 2017, 139, 8855-8867.	6.6	58
201	Understanding the Lewis Acidity of Co(II) Sites on a Silica Surface. Inorganic Chemistry, 2017, 56, 7731-7736.	1.9	13
202	Dendritic polarizing agents for DNP SENS. Chemical Science, 2017, 8, 416-422.	3.7	35
203	Origin of the Improved Performance in Lanthanumâ€doped Silicaâ€supported Ni Catalysts. ChemCatChem, 2017, 9, 586-596.	1.8	15
204	Xâ€“H Bond Activation on Cr(III),O Sites (X = R, H): Key Steps in Dehydrogenation and Hydrogenation Processes. Organometallics, 2017, 36, 234-244.	1.1	51
205	Isolated Surface Hydrides: Formation, Structure, and Reactivity. Chemical Reviews, 2016, 116, 8463-8505.	23.0	152
206	Switching on the Metathesis Activity of Re Oxo Alkylidene Surface Sites through a Tailorâ€Made Silicaâ€“Alumina Support. Angewandte Chemie, 2016, 128, 1136-1139.	1.6	3
207	Cationic Silicaâ€Supported Nâ€Heterocyclic Carbene Tungsten Oxo Alkylidene Sites: Highly Active and Stable Catalysts for Olefin Metathesis. Angewandte Chemie, 2016, 128, 4372-4374.	1.6	28
208	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. Angewandte Chemie, 2016, 128, 4821-4825.	1.6	6
209	Increased Back-Bonding Explains Step-Edge Reactivity and Particle Size Effect for CO Activation on Ru Nanoparticles. Journal of the American Chemical Society, 2016, 138, 16655-16668.	6.6	67
210	Role of Tricoordinate Al Sites in CH₃ReO₃/Al₂O₃ Olefin Metathesis Catalysts. Journal of the American Chemical Society, 2016, 138, 6774-6785.	6.6	42
211	Monolayer Doping of Silicon through Grafting a Tailored Molecular Phosphorus Precursor onto Oxide-Passivated Silicon Surfaces. Chemistry of Materials, 2016, 28, 3634-3640.	3.2	50
212	Highly Active Subnanometer Au Particles Supported on TiO₂ for Photocatalytic Hydrogen Evolution from a Well-Defined Organogold Precursor, [Au₅(mesityl)₅]. Inorganic Chemistry, 2016, 55, 4026-4033.	1.9	14
213	Probing the molecular character of periodic mesoporous organosilicates via photoluminescence of Lewis acidâ€“base adducts. Physical Chemistry Chemical Physics, 2016, 18, 13746-13749.	1.3	3
214	Correlating Synthetic Methods, Morphology, Atomic-Level Structure, and Catalytic Activity of Sn-Î² Catalysts. ACS Catalysis, 2016, 6, 4047-4063.	5.5	106
215	Alkyne Metathesis with Silicaâ€Supported and Molecular Catalysts at Partsâ€perâ€Million Loadings. Angewandte Chemie - International Edition, 2016, 55, 13960-13964.	7.2	42
216	Tricoordinate Organochromium(<scp>III</scp>) Complexes Supported by a Bulky Silylamido Ligand Produce Ultraâ€Highâ€Molecular Weight Polyethylene in the Absence of Activators. Helvetica Chimica Acta, 2016, 99, 859-867.	1.0	16

#	Article	IF	Citations
217	Alkyne Metathesis with Silicaâ€Supported and Molecular Catalysts at Partsâ€perâ€Million Loadings. Angewandte Chemie, 2016, 128, 14166-14170.	1.6	10
218	Hyperpolarization of Frozen Hydrocarbon Gases by Dynamic Nuclear Polarization at 1.2 K. Journal of Physical Chemistry Letters, 2016, 7, 3235-3239.	2.1	18
219	Low Temperature Activation of Supported Metathesis Catalysts by Organosilicon Reducing Agents. ACS Central Science, 2016, 2, 569-576.	5.3	65
220	Cubic three-dimensional hybrid silica solids for nuclear hyperpolarization. Chemical Science, 2016, 7, 6846-6850.	3.7	19
221	Iridium Oxide for the Oxygen Evolution Reaction: Correlation between Particle Size, Morphology, and the Surface Hydroxo Layer from Operando XAS. Chemistry of Materials, 2016, 28, 6591-6604.	3.2	347
222	Identifying Sn Site Heterogeneities Prevalent Among Snâ€Beta Zeolites. Helvetica Chimica Acta, 2016, 99, 916-927.	1.0	44
223	Surface Sites in Cu-Nanoparticles: Chemical Reactivity or Microscopy?. Journal of Physical Chemistry Letters, 2016, 7, 3259-3263.	2.1	30
224	Silica-Supported Cu Nanoparticle Catalysts for Alkyne Semihydrogenation: Effect of Ligands on Rates and Selectivity. Journal of the American Chemical Society, 2016, 138, 16502-16507.	6.6	135
225	Structural Characterization of the EtOHâ€“TiCl₄â€“MgCl₂ Zieglerâ€“Natta Precatalyst. Journal of Physical Chemistry C, 2016, 120, 18075-18087.	1.5	28
226	Frontispiz: Alkyne Metathesis with Silicaâ€Supported and Molecular Catalysts at Partsâ€perâ€Million Loadings. Angewandte Chemie, 2016, 128, .	1.6	0
227	Frontispiece: Alkyne Metathesis with Silica-Supported and Molecular Catalysts at Parts-per-Million Loadings. Angewandte Chemie - International Edition, 2016, 55, .	7.2	0
228	Câ€“H Activation on Co,O Sites: Isolated Surface Sites versus Molecular Analogs. Journal of the American Chemical Society, 2016, 138, 14987-14997.	6.6	117
229	Composition-dependent surface chemistry of colloidal Ba_xSr_{1â^'x}TiO₃ perovskite nanocrystals. Chemical Communications, 2016, 52, 13791-13794.	2.2	3
230	Cationic Silicaâ€Supported Nâ€Heterocyclic Carbene Tungsten Oxo Alkylidene Sites: Highly Active and Stable Catalysts for Olefin Metathesis. Angewandte Chemie - International Edition, 2016, 55, 4300-4302.	7.2	83
231	Atomistic Description of Reaction Intermediates for Supported Metathesis Catalysts Enabled by DNP SENS. Angewandte Chemie - International Edition, 2016, 55, 4743-4747.	7.2	52
232	CO₂ Activation on Ni/Î³â€“Al₂O₃ Catalysts by First-Principles Calculations: From Ideal Surfaces to Supported Nanoparticles. ACS Catalysis, 2016, 6, 4501-4505.	5.5	92
233	Improved promoter effect in NiWS catalysts through a molecular approach and an optimized Ni edge decoration. Journal of Catalysis, 2016, 340, 60-65.	3.1	27
234	Switching on the Metathesis Activity of Re Oxo Alkylidene Surface Sites through a Tailorâ€Made Silicaâ€“Alumina Support. Angewandte Chemie - International Edition, 2016, 55, 1124-1127.	7.2	23

#	Article	IF	Citations
235	Structural differences between Sb- and Nb-doped tin oxides and consequences for electrical conductivity. New Journal of Chemistry, 2016, 40, 2655-2660.	1.4	16
236	Predictive morphology, stoichiometry and structure of surface species in supported Ru nanoparticles under H₂ and CO atmospheres from combined experimental and DFT studies. Physical Chemistry Chemical Physics, 2016, 18, 1969-1979.	1.3	36
237	Elucidating the Link between NMR Chemical Shifts and Electronic Structure in d⁰ Olefin Metathesis Catalysts. Journal of the American Chemical Society, 2016, 138, 2261-2272.	6.6	99
238	Dynamic nuclear polarization at 40 kHz magic angle spinning. Physical Chemistry Chemical Physics, 2016, 18, 10616-10622.	1.3	74
239	The Nature of Secondary Interactions at Electrophilic Metal Sites of Molecular and Silica-Supported Organolutetium Complexes from Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2016, 138, 3831-3843.	6.6	35
240	N-Trifluoromethyl NHC Ligands Provide Selective Ruthenium Metathesis Catalysts. Organometallics, 2016, 35, 887-893.	1.1	28
241	Surface Organometallic and Coordination Chemistry toward Single-Site Heterogeneous Catalysts: Strategies, Methods, Structures, and Activities. Chemical Reviews, 2016, 116, 323-421.	23.0	650
242	A simple one-pot Adams method route to conductive high surface area IrO₂â€“TiO₂ materials. New Journal of Chemistry, 2016, 40, 1834-1838.	1.4	46
243	Tungsten oxide by non-hydrolytic solâ€“gel: effect of molecular precursor on morphology, phase and photocatalytic performance. New Journal of Chemistry, 2016, 40, 217-222.	1.4	15
244	Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. Chemical Science, 2016, 7, 550-558.	3.7	141
245	Activating Thiolateâ€Based Imidoalkylidene Tungsten(VI) Metathesis Catalysts by Grafting onto Silica. Asian Journal of Organic Chemistry, 2015, 4, 528-532.	1.3	12
246	CO2 Hydrogenation: Supported Nanoparticles vs. Immobilized Catalysts. Chimia, 2015, 69, 759.	0.3	10
247	Cerium(IV) Hexanuclear Clusters from Cerium(III) Precursors: Molecular Models for Oxidative Growth of Ceria Nanoparticles. Chemistry - A European Journal, 2015, 21, 13454-13461.	1.7	44
248	Quantitatively Analyzing Metathesis Catalyst Activity and Structural Features in Silica-Supported Tungsten Imidoâ€“Alkylidene Complexes. Journal of the American Chemical Society, 2015, 137, 6699-6704.	6.6	76
249	Strongly Ïƒ Donating Thiophenoxide in Silica-Supported Tungsten Oxo Catalysts for Improved 1-Alkene Metathesis Efficiency. Organometallics, 2015, 34, 551-554.	1.1	34
250	Increased methanation activity through passivation of the silica support. Journal of Catalysis, 2015, 324, 9-13.	3.1	15
251	Atomistic Description of Thiostannate-Capped CdSe Nanocrystals: Retention of Four-Coordinate SnS4 Motif and Preservation of Cd-Rich Stoichiometry. Journal of the American Chemical Society, 2015, 137, 1862-1874.	6.6	48
252	One-Photon Near-Infrared Sensitization of Well-Defined Yb(III) Surface Complexes for NIR-to-NIR Single Nanoparticle Imaging. Chemistry of Materials, 2015, 27, 2033-2039.	3.2	32

#	Article	IF	Citations
253	MeReO₃/Al₂O₃ and Me₄Sn-activated Re₂O₇/Al₂O₃ alkene metathesis catalysts have similar active sites. Catalysis Science and Technology, 2015, 5, 1438-1442.	2.1	17
254	Carbonâ€“Carbon Bond Formation by Activation of CH₃F on Alumina. Journal of Physical Chemistry C, 2015, 119, 7156-7163.	1.5	28
255	Reply to Peters et al.: Proton transfers are plausible initiation and termination steps on Cr(III) sites in ethylene polymerization. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4162-3.	3.3	16
256	Metallacyclobutanes from Schrock-Type d⁰ Metal Alkylidene Catalysts: Structural Preferences and Consequences in Alkene Metathesis. Organometallics, 2015, 34, 1668-1680.	1.1	55
257	[Au₅Mes₅]: improved gram-scale synthesis and its use as a convenient precursor for halide-free supported gold nanoparticles. Dalton Transactions, 2015, 44, 14349-14353.	1.6	10
258	Functionalization of Silica Nanoparticles and Native Silicon Oxide with Tailored Boron-Molecular Precursors for Efficient and Predictive p-Doping of Silicon. Journal of Physical Chemistry C, 2015, 119, 13750-13757.	1.5	25
259	Heterolytic Activation of Câ€“H Bonds on Cr^{III}â€“O Surface Sites Is a Key Step in Catalytic Polymerization of Ethylene and Dehydrogenation of Propane. Inorganic Chemistry, 2015, 54, 5065-5078.	1.9	103
260	Isostructural Molecular and Surface Mimics of the Active Sites of the Industrial WO₃/SiO₂ Metathesis Catalysts. ACS Catalysis, 2015, 5, 6436-6439.	5.5	22
261	The Role of Proton Transfer in Heterogeneous Transformations of Hydrocarbons. Chimia, 2015, 69, 321.	0.3	3
262	Structure of Colloidal Quantum Dots from Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. Journal of the American Chemical Society, 2015, 137, 13964-13971.	6.6	105
263	Cooperativity between Al Sites Promotes Hydrogen Transfer and Carbonâ€“Carbon Bond Formation upon Dimethyl Ether Activation on Alumina. ACS Central Science, 2015, 1, 313-319.	5.3	92
264	Atomic Description of the Interface between Silica and Alumina in Aluminosilicates through Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy and First-Principles Calculations. Journal of the American Chemical Society, 2015, 137, 10710-10719.	6.6	129
265	Synthesis and Characterization of Rare Earth Siloxide Complexes, M[OSi(OtBu)₃]₃(L)_x where L is HOSi(OtBu)₃ and x = 0 or 1. Organometallics, 2015, 34, 2271-2277.	1.1	25
266	NMR Signatures of the Active Sites in Snâ€²â€…Zeolite. Angewandte Chemie, 2014, 126, 10343-10347.	1.6	46
267	Silica-surface reorganization during organotin grafting evidenced by 119Sn DNP SENS: a tandem reaction of gem-silanols and strained siloxane bridges. Physical Chemistry Chemical Physics, 2014, 16, 17822-17827.	1.3	40
268	Highly Active Nonpromoted Hydrotreating Catalysts through the Controlled Growth of a Supported Hexagonal WS₂ Phase. ACS Catalysis, 2014, 4, 4320-4331.	5.5	39
269	Bulky Aryloxide Ligand Stabilizes a Heterogeneous Metathesis Catalyst. Angewandte Chemie - International Edition, 2014, 53, 14221-14224.	7.2	54
270	Facile preparation of small and narrowly distributed platinum nanoparticles in the absence of H₂from Pt(<scp>ii</scp>) and Pt(0) molecular precursors using trihydrogeno(octyl)silane. New Journal of Chemistry, 2014, 38, 5952-5956.	1.4	4

#	Article	IF	Citations
271	Dynamic Nuclear Polarization Enhanced NMR Spectroscopy for Pharmaceutical Formulations. Journal of the American Chemical Society, 2014, 136, 2324-2334.	6.6	145
272	Chlorodiethylaluminum supported on silica: A dinuclear aluminum surface species with bridging Î¼2-Cl-ligand as a highly efficient co-catalyst for the Ni-catalyzed dimerization of ethene. Journal of Catalysis, 2014, 313, 46-54.	3.1	43
273	Bipyridine Periodic Mesoporous Organosilica: A Solid Ligand for the Iridiumâ€Catalyzed Borylation of Cï£¿H Bonds. Advanced Synthesis and Catalysis, 2014, 356, 673-679.	2.1	47
274	Mesostructured Hybrid Organicâ€“Silica Materials: Ideal Supports for Well-Defined Heterogeneous Organometallic Catalysts. ACS Catalysis, 2014, 4, 1458-1469.	5.5	106
275	Magnifying the Morphology Change Induced by a Nickel Promoter in Tungsten(IV) Sulfide Industrial Hydrocracking Catalyst: A HAADFâ€STEM and DFT Study. ChemCatChem, 2014, 6, 1594-1598.	1.8	17
276	NMR Signatures of the Active Sites in Snâ€Î²â€…Zeolite. Angewandte Chemie - International Edition, 2014, 53, 10179-10183.	7.2	157
277	Magnitude and consequences of OR ligand Ï*f*-donation on alkene metathesis activity in d0 silica supported (î€,SiO)W(NAr)(î€CHtBu)(OR) catalysts. Chemical Science, 2014, 5, 2475-2481.	3.7	58
278	Silver nanoparticles supported on passivated silica: preparation and catalytic performance in alkyne semi-hydrogenation. Dalton Transactions, 2014, 43, 15138-15142.	1.6	31
279	Hybrid polarizing solids for pure hyperpolarized liquids through dissolution dynamic nuclear polarization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14693-14697.	3.3	93
280	Reactivity of silica supported zirconium hydride towards N₂O and CO₂ probe molecules: a computational point of view. New Journal of Chemistry, 2014, 38, 3717-3721.	1.4	7
281	Unraveling the Coreâ€“Shell Structure of Ligand-Capped Sn/SnOxNanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, MÃ¶ssbauer, and X-ray Absorption Spectroscopies. ACS Nano, 2014, 8, 2639-2648.	7.3	87
282	Visibility of Al Surface Sites of Î³-Alumina: A Combined Computational and Experimental Point of View. Journal of Physical Chemistry C, 2014, 118, 15292-15299.	1.5	97
283	Polymerization of Ethylene by Silicaâ€Supported Dinuclear Cr^{III} Sites through an Initiation Step Involving Cï£¿H Bond Activation. Angewandte Chemie - International Edition, 2014, 53, 1872-1876.	7.2	120
284	Near-IR Two Photon Microscopy Imaging of Silica Nanoparticles Functionalized with Isolated Sensitized Yb(III) Centers. Chemistry of Materials, 2014, 26, 1062-1073.	3.2	61
285	Lutidine-Derived Ru-CNC Hydrogenation Pincer Catalysts with Versatile Coordination Properties. ACS Catalysis, 2014, 4, 2667-2671.	5.5	104
286	State of the Art and Perspectives in the â€œMolecular Approachâ€•Towards Well-Defined Heterogeneous Catalysts. Topics in Catalysis, 2014, 57, 843-851.	1.3	30
287	Dense and narrowly distributed silica-supported rhodium and iridium nanoparticles: Preparation via surface organometallic chemistry and chemisorption stoichiometry. Journal of Catalysis, 2014, 316, 260-269.	3.1	29
288	Proton transfers are key elementary steps in ethylene polymerization on isolated chromium(III) silicates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11624-11629.	3.3	118

#	Article	IF	Citations
289	A Wellâ€Defined Pd Hybrid Material for the Zâ€Selective Semihydrogenation of Alkynes Characterized at the Molecular Level by DNP SENS. Chemistry - A European Journal, 2013, 19, 12234-12238.	1.7	61
290	The impact of Metalâ€“Ligand Cooperation in Hydrogenation of Carbon Dioxide Catalyzed by Ruthenium PNP Pincer. ACS Catalysis, 2013, 3, 2522-2526.	5.5	136
291	A Well-Defined Silica-Supported Tungsten Oxo Alkylidene Is a Highly Active Alkene Metathesis Catalyst. Journal of the American Chemical Society, 2013, 135, 19068-19070.	6.6	83
292	Silver Nanoparticles for Olefin Production: New Insights into the Mechanistic Description of Propyne Hydrogenation. ChemCatChem, 2013, 5, 3750-3759.	1.8	88
293	Solid-Phase Polarization Matrixes for Dynamic Nuclear Polarization from Homogeneously Distributed Radicals in Mesostructured Hybrid Silica Materials. Journal of the American Chemical Society, 2013, 135, 15459-15466.	6.6	56
294	Narrowly dispersed silica supported osmium nanoparticles prepared by an organometallic approach: H2 and CO adsorption stoichiometry and hydrogenolysis catalytic activity. Dalton Transactions, 2013, 42, 12620.	1.6	16
295	Triisobutylaluminum: bulkier and yet more reactive towards silica surfaces than triethyl or trimethylaluminum. Dalton Transactions, 2013, 42, 12681.	1.6	35
296	Particle size effect in the low temperature reforming of methane by carbon dioxide on silica-supported Ni nanoparticles. Journal of Catalysis, 2013, 297, 27-34.	3.1	224
297	Improved Dynamic Nuclear Polarization Surfaceâ€Enhanced NMR Spectroscopy through Controlled Incorporation of Deuterated Functional Groups. Angewandte Chemie - International Edition, 2013, 52, 1222-1225.	7.2	58
298	Cu nanoparticles on 2D and 3D silica substrates: controlled size and density, and critical size in catalytic silicon nanowire growth. Journal of Materials Chemistry C, 2013, 1, 1583.	2.7	20
299	Molecular-level characterization of the structure and the surface chemistry of periodic mesoporous organosilicates using DNP-surface enhanced NMR spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 13270.	1.3	56
300	From well-defined Pt(ii) surface species to the controlled growth of silica supported Pt nanoparticles. Dalton Transactions, 2013, 42, 238-248.	1.6	41
301	Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. Accounts of Chemical Research, 2013, 46, 1942-1951.	7.6	524
302	Evidence for Metalâ€“Surface Interactions and Their Role in Stabilizing Well-Defined Immobilized Ruâ€“NHC Alkene Metathesis Catalysts. Journal of the American Chemical Society, 2013, 135, 3193-3199.	6.6	96
303	Large Molecular Weight Nitroxide Biradicals Providing Efficient Dynamic Nuclear Polarization at Temperatures up to 200 K. Journal of the American Chemical Society, 2013, 135, 12790-12797.	6.6	355
304	Tetrahydrofuran in TiCl₄/THF/MgCl₂: a Non-Innocent Ligand for Supported Zieglerâ€“Natta Polymerization Catalysts. ACS Catalysis, 2013, 3, 52-56.	5.5	58
305	Surface and Interfacial Chemistry. Chimia, 2012, 66, 125-129.	0.3	2
306	Nickelâ€“Silicide Colloid Prepared under Mild Conditions as a Versatile Ni Precursor for More Efficient CO₂ Reforming of CH₄ Catalysts. Journal of the American Chemical Society, 2012, 134, 20624-20627.	6.6	84

#	Article	IF	Citations
307	Sorbent-Enhanced Methane Reforming over a Niâ€“Ca-Based, Bifunctional Catalyst Sorbent. ACS Catalysis, 2012, 2, 1635-1646.	5.5	112
308	[(ï£½SiO)Ta^VCl₂Me₂]: A Wellâ€Defined Silicaâ€Supported Tantalum(V) Surface Complex as Catalyst Precursor for the Selective Cocatalystâ€Free Trimerization of Ethylene. Angewandte Chemie - International Edition, 2012, 51, 11886-11889.	7.2	45
309	Siloxides as Supporting Ligands in Uranium(III)â€Mediated Smallâ€Molecule Activation. Angewandte Chemie - International Edition, 2012, 51, 12280-12284.	7.2	141
310	A Slowly Relaxing Rigid Biradical for Efficient Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy: Expeditious Characterization of Functional Group Manipulation in Hybrid Materials. Journal of the American Chemical Society, 2012, 134, 2284-2291.	6.6	182
311	Dynamic Nuclear Polarization NMR Spectroscopy of Microcrystalline Solids. Journal of the American Chemical Society, 2012, 134, 16899-16908.	6.6	242
312	Î³-Alumina: The Essential and Unexpected Role of Water for the Structure, Stability, and Reactivity of â€œDefectâ€•Sites. Journal of the American Chemical Society, 2012, 134, 14430-14449.	6.6	308
313	Oxo vs Imido Alkylidene d⁰-Metal Species: How and Why Do They Differ in Structure, Activity, and Efficiency in Alkene Metathesis?. Organometallics, 2012, 31, 6812-6822.	1.1	81
314	Dynamic nuclear polarization of quadrupolar nuclei using cross polarization from protons: surface-enhanced aluminium-27 NMR. Chemical Communications, 2012, 48, 1988.	2.2	123
315	Non-aqueous solvents for DNP surface enhanced NMR spectroscopy. Chemical Communications, 2012, 48, 654-656.	2.2	155
316	One hundred fold overall sensitivity enhancements for Silicon-29 NMR spectroscopy of surfaces by dynamic nuclear polarization with CPMG acquisition. Chemical Science, 2012, 3, 108-115.	3.7	141
317	Nature and Structure of Aluminum Surface Sites Grafted on Silica from a Combination of High-Field Aluminum-27 Solid-State NMR Spectroscopy and First-Principles Calculations. Journal of the American Chemical Society, 2012, 134, 6767-6775.	6.6	71
318	Dynamic Nuclear Polarization Enhanced Solidâ€State NMR Spectroscopy of Functionalized Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2012, 51, 123-127.	7.2	161
319	Access to Well-Defined Ruthenium Mononuclear Species Grafted via a Siâ‹¯Ru Bond on Silane Functionalized Silica. Journal of Physical Chemistry C, 2011, 115, 1150-1155.	1.5	5
320	Bright Luminescent Silica Nanoparticles for Two-Photon Microscopy Imaging via Controlled Formation of 4,4â€²-Diethylaminostyryl-2,2â€²-bipyridine Zn(II) Surface Complexes. Chemistry of Materials, 2011, 23, 3228-3236.	3.2	43
321	Molecular nature of support effects in single-site heterogeneous catalysts: silica vs. alumina. Chemical Science, 2011, 2, 1449.	3.7	107
322	Silica-supported single-site catalysts: to be or not to be? A conjecture on silica surfaces. New Journal of Chemistry, 2011, 35, 2403.	1.4	70
323	Probing surface site heterogeneity through 1D and INADEQUATE 31P solid state NMR spectroscopy of silica supported PMe3-Au(I) adducts. Chemical Science, 2011, 2, 928.	3.7	15
324	Fast Characterization of Functionalized Silica Materials by Silicon-29 Surface-Enhanced NMR Spectroscopy Using Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2011, 133, 2104-2107.	6.6	254

#	Article	IF	Citations
325	A highly ordered mesostructured material containing regularly distributed phenols: preparation and characterization at a molecular level through ultra-fast magic angle spinning proton NMR spectroscopy. Physical Chemistry Chemical Physics, 2011, 13, 4230.	1.3	13
326	Alkylidene and alkylidyne surface complexes: Precursors and intermediates in alkane conversion processes on supported single-site catalysts. Journal of Organometallic Chemistry, 2011, 696, 4121-4131.	0.8	24
327	Dinitrogen: a selective probe for tri-coordinate Al â€œdefectâ€•sites on alumina. Chemical Communications, 2011, 47, 4890.	2.2	45
328	Stereoselectivity of supported alkene metathesis catalysts: a goal and a tool to characterize active sites. Beilstein Journal of Organic Chemistry, 2011, 7, 13-21.	1.3	28
329	Unsymmetrical Ru-NHC catalysts: a key for the selective tandem Ring Openingâ€“Ring Closing alkene Metathesis (ROâ€“RCM) of cyclooctene. Dalton Transactions, 2011, 40, 12443.	1.6	25
330	Tailored Rutheniumâ€“Nâ€Heterocyclic Carbene Hybrid Catalytic Materials for the Hydrogenation of Carbon Dioxide in the Presence of Amine. ChemSusChem, 2011, 4, 1762-1765.	3.6	32
331	Optimal Water Coverage on Alumina: A Key to Generate Lewis Acidâ€“Base Pairs that are Reactive Towards the Cï£¿H Bond Activation of Methane. Angewandte Chemie - International Edition, 2011, 50, 3202-3205.	7.2	184
332	Revisiting the Structure of Methyltrioxorhenium Chemisorbed on Alumina. ChemCatChem, 2010, 2, 812-815.	1.8	19
333	Câ^'H Bond Activation and Organometallic Intermediates on Isolated Metal Centers on Oxide Surfaces. Chemical Reviews, 2010, 110, 656-680.	23.0	396
334	Surface Enhanced NMR Spectroscopy by Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2010, 132, 15459-15461.	6.6	488
335	Shutting Down Secondary Reaction Pathways: The Essential Role of the Pyrrolyl Ligand in Improving Silica Supported d⁰-ML₄ Alkene Metathesis Catalysts from DFT Calculations. Journal of the American Chemical Society, 2010, 132, 7750-7757.	6.6	121
336	Metathesis of Alkanes and Related Reactions. Accounts of Chemical Research, 2010, 43, 323-334.	7.6	223
337	Synthesis and reactivity of molybdenum imido alkylidene bis-pyrazolide complexes. Dalton Transactions, 2010, 39, 8547.	1.6	18
338	Wellâ€Defined Silicaâ€Supported Moâ€“Alkylidene Catalyst Precursors Containing One OR Substituent: Methods of Preparation and Structureâ€“Reactivity Relationship in Alkene Metathesis. Chemistry - A European Journal, 2009, 15, 5083-5089.	1.7	53
339	Tailored Ruâ€NHC Heterogeneous Catalysts for Alkene Metathesis. Chemistry - A European Journal, 2009, 15, 11820-11823.	1.7	70
340	Well-defined silica supported metallocarbenes: Formation and reactivity. Coordination Chemistry Reviews, 2009, 253, 2015-2020.	9.5	20
341	Gold Nanoparticles Supported on Passivated Silica: Access to an Efficient Aerobic Epoxidation Catalyst and the Intrinsic Oxidation Activity of Gold. Journal of the American Chemical Society, 2009, 131, 14667-14669.	6.6	111
342	Structureâ€“Reactivity Relationship in Alkane Metathesis Using Wellâ€Defined Silicaâ€Supported Alkene Metathesis Catalyst Precursors. Chemistry - A European Journal, 2008, 14, 9030-9037.	1.7	30

#	Article	IF	Citations
343	Tuning the Selectivity of Aluminaâ€Supported (CH₃)ReO₃ by Modifying the Surface Properties of the Support. Angewandte Chemie - International Edition, 2008, 47, 2117-2120.	7.2	41
344	A Tailored Organometallicâ€“Inorganic Hybrid Mesostructured Material: A Route to a Wellâ€Defined, Active, and Reusable Heterogeneous Iridiumâ€NHC Catalyst for H/D Exchange. Angewandte Chemie - International Edition, 2008, 47, 8654-8656.	7.2	75
345	Grafting mechanism and olefin metathesis activity of well-defined silica-supported Mo imido alkyl alkylidene complexes. Comptes Rendus Chimie, 2008, 11, 137-146.	0.2	24
346	CH3-ReO3 on Î³-Al2O3: Activity, selectivity, active site and deactivation in olefin metathesis. Journal of Catalysis, 2008, 253, 180-190.	3.1	51
347	Hydrogen and oxygen adsorption stoichiometries on silica supported ruthenium nanoparticles. Journal of Catalysis, 2008, 260, 387-391.	3.1	35
348	Non-Oxidative Coupling Reaction of Methane to Ethane and Hydrogen Catalyzed by the Silica-Supported Tantalum Hydride: (â‰¡SiO)₂Taâ€H. Journal of the American Chemical Society, 2008, 130, 5044-5045.	6.6	127
349	High resolution solid state NMRspectroscopy in surface organometallic chemistry: access to molecular understanding of active sites of well-defined heterogeneous catalysts. Chemical Society Reviews, 2008, 37, 518-526.	18.7	97
350	Dramatic enhancement of the alkene metathesis activity of Mo imido alkylidene complexes upon replacement of one tBuO by a surface siloxy ligand. Dalton Transactions, 2008, , 3156.	1.6	33
351	Î²-H Transfer from the Metallacyclobutane: A Key Step in the Deactivation and Byproduct Formation for the Well-Defined Silica-Supported Rhenium Alkylidene Alkene Metathesis Catalyst. Journal of the American Chemical Society, 2008, 130, 6288-6297.	6.6	88
352	Evaluation of the Carbene Hydride Mechanism in the Carbonâ€Carbon Bond Formation Process of Alkane Metathesis through a DFT Study. Journal of the American Chemical Society, 2008, 130, 7984-7987.	6.6	33
353	Dynamics of Silica-Supported Catalysts Determined by Combining Solid-State NMR Spectroscopy and DFT Calculations. Journal of the American Chemical Society, 2008, 130, 5886-5900.	6.6	98
354	Direct observation of reaction intermediates for a well defined heterogeneous alkene metathesis catalyst. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12123-12127.	3.3	86
355	Surface Organometallic Chemistry. , 2007, , 499-553.		7
356	Dramatic Improvements of Well-Defined Silica Supported Mo-Based Olefin Metathesis Catalysts by Tuning the N-Containing Ligands. Journal of the American Chemical Society, 2007, 129, 8434-8435.	6.6	78
357	Synthesis, Characterization, and Catalytic Properties of Î³-Al2O3-Supported Zirconium Hydrides through a Combined Use of Surface Organometallic Chemistry and Periodic Calculations. Organometallics, 2007, 26, 3329-3335.	1.1	33
358	Understanding d0-Olefin Metathesis Catalysts:Â Which Metal, Which Ligands?. Journal of the American Chemical Society, 2007, 129, 8207-8216.	6.6	210
359	Design and understanding of heterogeneous alkene metathesis catalysts. Dalton Transactions, 2007, , 5498.	1.6	80
360	Highly Active, Stable, and Selective Well-Defined Silica Supported Mo Imido Olefin Metathesis Catalysts. Journal of the American Chemical Society, 2007, 129, 1044-1045.	6.6	92

#	Article	IF	Citations
361	Homologation of Propane Catalyzed by Oxide-Supported Zirconium Dihydride and Dialkyl Complexes. Angewandte Chemie - International Edition, 2007, 46, 2288-2290.	7.2	45
362	CH3ReO3 on Î³-Al2O3: Understanding Its Structure, Initiation, and Reactivity in Olefin Metathesis. Angewandte Chemie - International Edition, 2007, 46, 3870-3873.	7.2	72
363	Silica-Alumina-Supported, Tungsten-Based Heterogeneous Alkane Metathesis Catalyst: Is it Closer to a Silica- or an Alumina-Supported System?. Advanced Synthesis and Catalysis, 2007, 349, 231-237.	2.1	61
364	Rhenium(VII) Oxide/Aluminum Oxide: More Experimental Evidence for an Oxametallacyclobutane Intermediate and a Pseudo-Wittig Initiation Step in Olefin Metathesis. Advanced Synthesis and Catalysis, 2007, 349, 238-242.	2.1	61
365	Strategies to Immobilize Well-Defined Olefin Metathesis Catalysts: Supported Homogeneous Catalysisvs. Surface Organometallic Chemistry. Advanced Synthesis and Catalysis, 2007, 349, 78-92.	2.1	207
366	Structure, spectroscopic and electronic properties of a well defined silica supported olefin metathesis catalyst, [(î€,SiO)Re(î€,CR)(î€CHR)(CH2R)], through DFT periodic calculations: silica is just a large siloxy ligand. New Journal of Chemistry, 2006, 30, 842-850.	1.4	77
367	A Well-Defined, Silica-Supported Tungsten Imido Alkylidene Olefin Metathesis Catalyst. Organometallics, 2006, 25, 3554-3557.	1.1	152
368	Better Characterization of Surface Organometallic Catalysts through Resolution Enhancement in Proton Solid State NMR Spectra. Inorganic Chemistry, 2006, 45, 9587-9592.	1.9	25
369	Molecular Understanding of Alumina Supported Single-Site Catalysts by a Combination of Experiment and Theory. Journal of the American Chemical Society, 2006, 128, 9157-9169.	6.6	125
370	Understanding the reactivity of [WNAr(CH2tBu)2(CHtBu)] (Ar=2,6-iPrC6H3) with silica partially dehydroxylated at low temperatures through a combined use of molecular and surface organometallic chemistry. Journal of Organometallic Chemistry, 2006, 691, 5448-5455.	0.8	42
371	Heterolytic Splitting of H2and CH4on Î³-Alumina as a Structural Probe for Defect Sites. Journal of Physical Chemistry B, 2006, 110, 23944-23950.	1.2	141
372	Alumina supported tungsten hydrides, new efficient catalysts for alkane metathesis. Topics in Catalysis, 2006, 40, 65-70.	1.3	46
373	Surface versus Molecular Siloxy Ligands in Well-Definedâ€‰Olefin Metathesis Catalysts: [{(RO)3SiO}Mo(ï£¾NAr)(ï£¾CHtBu)(CH2tBu)]. Angewandte Chemie - International Edition, 2006, 45, 1216-1220.	7.2	155
374	From Olefin to Alkane Metathesis: A Historical Point of View. Angewandte Chemie - International Edition, 2006, 45, 6082-6085.	7.2	47
375	Alkane Metathesis Catalyzed by a Well-Defined Silica-Supported Mo Imido Alkylidene Complex: [(ï£½SiO)Mo(ï£¾NAr)(ï£¾CHtBu)(CH2tBu)]. Angewandte Chemie - International Edition, 2006, 45, 6201-6203.	7.2	51
376	Development of Tungsten-Based Heterogeneous Alkane Metathesis Catalysts Through a Structure-Activity Relationship. Angewandte Chemie - International Edition, 2005, 44, 6755-6758.	7.2	134
377	Reactivity differences between molecular and surface silanols in the preparation of homogeneous and heterogeneous olefin metathesis catalysts. Journal of Organometallic Chemistry, 2005, 690, 5014-5026.	0.8	53
378	Understanding Structural and Dynamic Properties of Well-Defined Rhenium-Based Olefin Metathesis Catalysts, Re(â‹®CR)(CHR)(X)(Y), from DFT and QM/MM Calculations. Organometallics, 2005, 24, 1586-1597.	1.1	59

#	Article	IF	Citations
379	Well-Defined Surface Tungstenocarbyne Complexes through the Reaction of [W(â‹®CtBu)(CH2tBu)3] with Silica. Organometallics, 2005, 24, 4274-4279.	1.1	79
380	d0Re-Based Olefin Metathesis Catalysts, Re(â‹®CR)(CHR)(X)(Y):Â The Key Role of X and Y Ligands for Efficient Active Sites. Journal of the American Chemical Society, 2005, 127, 14015-14025.	6.6	158
381	Cross-Metathesis of Propane and Methane: A Catalytic Reaction of Cï£¿C Bond Cleavage of a Higher Alkane by Methane. Angewandte Chemie - International Edition, 2004, 43, 5366-5369.	7.2	73
382	Molecular Understanding of the Formation of Surface Zirconium Hydrides upon Thermal Treatment under Hydrogen of [(â‹®SiO)Zr(CH2tBu)3] by Using Advanced Solid-State NMR Techniques. Journal of the American Chemical Society, 2004, 126, 12541-12550.	6.6	127
383	Molecular design of heterogeneous catalysts: the case of olefin metathesis. New Journal of Chemistry, 2004, 28, 1-10.	1.4	82
384	Detailed Structural Investigation of the Grafting of [Ta(CHtBu)(CH2tBu)3] and [Cp*TaMe4] on Silica Partially Dehydroxylated at 700 Â°C and the Activity of the Grafted Complexes toward Alkane Metathesis. Journal of the American Chemical Society, 2004, 126, 13391-13399.	6.6	136
385	Homogene und heterogene Katalyse â€“ BrÃ¼ckenschlag durch OberflÃchen-Organometallchemie. Angewandte Chemie, 2003, 115, 164-191.	1.6	170
386	Re-Based Heterogeneous Catalysts for Olefin Metathesis Prepared by Surface Organometallic Chemistry: Reactivity and Selectivity. Chemistry - A European Journal, 2003, 9, 971-975.	1.7	86
387	Homogeneous and Heterogeneous Catalysis: Bridging the Gap through Surface Organometallic Chemistry. Angewandte Chemie - International Edition, 2003, 42, 156-181.	7.2	943
388	Cover Picture: Angew. Chem. Int. Ed. 2/2003. Angewandte Chemie - International Edition, 2003, 42, 129-129.	7.2	5
389	Perhydrocarbyl ReVIIComplexes: Comparison of Molecular and Surface Complexes. Journal of the American Chemical Society, 2003, 125, 492-504.	6.6	116
390	Observation of a H-Agostic Bond in a Highly Active Rheniumâ€“Alkylidene Olefin Metathesis Heterogeneous Catalyst by Two-Dimensional Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2002, 41, 4535-4538.	7.2	77
391	A Highly Active Well-Defined Rhenium Heterogeneous Catalyst for Olefin Metathesis Prepared via Surface Organometallic Chemistry. Journal of the American Chemical Society, 2001, 123, 2062-2063.	6.6	194
392	Characterization of Surface Organometallic Complexes Using High Resolution 2D Solid-State NMR Spectroscopy. Application to the Full Characterization of a Silica Supported Metal Carbyne: â‹®SiOâ^'Mo(â‹®Câ^'Bu-t)(CH2â^'Bu-t)2. Journal of the American Chemical Society, 2001, 123, 3820-3821.	6.6	72
393	Ïƒ-Bond Metathesis of Alkanes on a Silica-Supported Tantalum(V) Alkyl Alkylidene Complex: First Evidence for Alkane Cross-Metathesis. Angewandte Chemie - International Edition, 2001, 40, 2331-2334.	7.2	117
394	Molecular Insight Into Surface Organometallic Chemistry Through the Combined Use of 2D HETCOR Solid-State NMR Spectroscopy and Silsesquioxane Analogues We are also indebted to the CNRS, ENS Lyon, and ESCPE Lyon for financial support. M.C. is grateful to the French ministry of education, research, and technology (MENRT) for a pre-doctoral fellowship. E.A.Q. gratefully acknowledges UniversitÃ di Pisa and S.N.A.M. for financial support. 2D HETCOR=two-dimensional heteronuclear correlation.. Angewandte Chemie - International Edition, 2001, 40, 4493.	7.2	76
395	Efficient Epoxidation of Alkenes with Aqueous Hydrogen Peroxide Catalyzed by Methyltrioxorhenium and 3-Cyanopyridine. Journal of Organic Chemistry, 2000, 65, 8651-8658.	1.7	94
396	A Simple and Efficient Method for the Preparation of Pyridine N-Oxides. Journal of Organic Chemistry, 1998, 63, 1740-1741.	1.7	151

#	Article	IF	Citations
397	A simple and efficient method for epoxidation of terminal alkenes. Chemical Communications, 1997, , 1565-1566.	2.2	189
398	Increasing Olefin Metathesis Activity of Silicaâ€Supported Molybdenum Imido Adamantylidene Complexes through Ë Ligand Ïƒâ€Donation. Helvetica Chimica Acta, 0, , e2100151.	1.0	3
399	Wâ€oxo Adamantylidenes: Stable Molecular Precursors for Efficient Silicaâ€Supported Metathesis Catalysts. Helvetica Chimica Acta, 0, , .	1.0	1
400	An Anionic Dinuclear Ruthenium Dihydrogen Complex of Relevance for Alkyne gemâ€Hydrogenation. Angewandte Chemie, 0, , .	1.6	0