Christophe Coperet

List of Publications by Year
in descending order

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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	Homogeneous and Heterogeneous Catalysis: Bridging the Gap through Surface Organometallic Chemistry. Angewandte Chemie - International Edition, 2003, 42, 156-181.	7.2	943
2	Surface Organometallic and Coordination Chemistry toward Single-Site Heterogeneous Catalysts: Strategies, Methods, Structures, and Activities. Chemical Reviews, 2016, 116, 323-421.	23.0	650
3	Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. Accounts of Chemical Research, 2013, 46, 1942-1951.	7.6	524
4	Surface Enhanced NMR Spectroscopy by Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2010, 132, 15459-15461.	6.6	488
5	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
6	Câ‹H Bond Activation and Organometallic Intermediates on Isolated Metal Centers on Oxide Surfaces. Chemical Reviews, 2010, 110, 656-680.	23.0	396
7	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
8	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
9	Cooperativity and Dynamics Increase the Performance of NiFe Dry Reforming Catalysts. Journal of the American Chemical Society, 2017, 139, 1937-1949.	6.6	322
10	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
11	IrO₂-TiO₂: A High-Surface-Area, Active, and Stable Electrocatalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 2346-2352.	5.5	264
12	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
13	Dynamic Nuclear Polarization NMR Spectroscopy of Microcrystalline Solids. Journal of the American Chemical Society, 2012, 134, 16899-16908.	6.6	242
14	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
15	Metathesis of Alkanes and Related Reactions. Accounts of Chemical Research, 2010, 43, 323-334.	7.6	223
16	Understanding d0-Olefin Metathesis Catalysts:Â Which Metal, Which Ligands?. Journal of the American Chemical Society, 2007, 129, 8207-8216.	6.6	210
17	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
18	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

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19	Bridging the Gap between Industrial and Wellâ€Defined Supported Catalysts. Angewandte Chemie - International Edition, 2018, 57, 6398-6440.	7.2	193
20	A simple and efficient method for epoxidation of terminal alkenes. Chemical Communications, 1997, , 1565-1566.	2.2	189
21	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
22	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
23	Highly Active and Stable Iridium Pyrochlores for Oxygen Evolution Reaction. Chemistry of Materials, 2017, 29, 5182-5191.	3.2	172
24	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
25	Homogene und heterogene Katalyse â€“ BrÃ¼ckenschlag durch OberflÃchen-Organometallchemie. Angewandte Chemie, 2003, 115, 164-191.	1.6	170
26	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
27	Integrated CO₂ Capture and Conversion as an Efficient Process for Fuels from Greenhouse Gases. ACS Catalysis, 2018, 8, 2815-2823.	5.5	168
28	Dynamic Nuclear Polarization Enhanced Solidâ€State NMR Spectroscopy of Functionalized Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2012, 51, 123-127.	7.2	161
29	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
30	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
31	Efficient epoxidation over dinuclear sites in titanium silicalite-1. Nature, 2020, 586, 708-713.	13.7	158
32	NMR Signatures of the Active Sites in Snâ€²²â€…Zeolite. Angewandte Chemie - International Edition, 2014, 53, 10179-10183.	7.2	157
33	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
34	Non-aqueous solvents for DNP surface enhanced NMR spectroscopy. Chemical Communications, 2012, 48, 654-656.	2.2	155
35	A Well-Defined, Silica-Supported Tungsten Imido Alkylidene Olefin Metathesis Catalyst. Organometallics, 2006, 25, 3554-3557.	1.1	152
36	Isolated Surface Hydrides: Formation, Structure, and Reactivity. Chemical Reviews, 2016, 116, 8463-8505.	23.0	152

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37	A Simple and Efficient Method for the Preparation of Pyridine N-Oxides. Journal of Organic Chemistry, 1998, 63, 1740-1741.	1.7	151
38	Dynamic Nuclear Polarization Enhanced NMR Spectroscopy for Pharmaceutical Formulations. Journal of the American Chemical Society, 2014, 136, 2324-2334.	6.6	145
39	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
40	Siloxides as Supporting Ligands in Uranium(III)â€Mediated Smallâ€Molecule Activation. Angewandte Chemie - International Edition, 2012, 51, 12280-12284.	7.2	141
41	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
42	Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. Chemical Science, 2016, 7, 550-558.	3.7	141
43	Engineering the Cu/Mo2CTx (MXene) interface to drive CO2 hydrogenation to methanol. Nature Catalysis, 2021, 4, 860-871.	16.1	138
44	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
45	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
46	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
47	Development of Tungsten-Based Heterogeneous Alkane Metathesis Catalysts Through a Structure-Activity Relationship. Angewandte Chemie - International Edition, 2005, 44, 6755-6758.	7.2	134
48	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
49	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
50	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
51	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
52	Dynamic nuclear polarization of quadrupolar nuclei using cross polarization from protons: surface-enhanced aluminium-27 NMR. Chemical Communications, 2012, 48, 1988.	2.2	123
53	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
54	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

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55	Silica-supported isolated gallium sites as highly active, selective and stable propane dehydrogenation catalysts. Chemical Science, 2017, 8, 2661-2666.	3.7	119
56	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
57	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
58	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
59	Perhydrocarbyl ReVIIComplexes: Comparison of Molecular and Surface Complexes. Journal of the American Chemical Society, 2003, 125, 492-504.	6.6	116
60	Unraveling Thermodynamics, Stability, and Oxygen Evolution Activity of Strontium Ruthenium Perovskite Oxide. ACS Catalysis, 2017, 7, 3245-3256.	5.5	113
61	Sorbent-Enhanced Methane Reforming over a Niâ€“Ca-Based, Bifunctional Catalyst Sorbent. ACS Catalysis, 2012, 2, 1635-1646.	5.5	112
62	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
63	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
64	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
65	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
66	Molecular nature of support effects in single-site heterogeneous catalysts: silica vs. alumina. Chemical Science, 2011, 2, 1449.	3.7	107
67	Mesostructured Hybrid Organicâ€“Silica Materials: Ideal Supports for Well-Defined Heterogeneous Organometallic Catalysts. ACS Catalysis, 2014, 4, 1458-1469.	5.5	106
68	Correlating Synthetic Methods, Morphology, Atomic-Level Structure, and Catalytic Activity of Sn-Î² Catalysts. ACS Catalysis, 2016, 6, 4047-4063.	5.5	106
69	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
70	Lutidine-Derived Ru-CNC Hydrogenation Pincer Catalysts with Versatile Coordination Properties. ACS Catalysis, 2014, 4, 2667-2671.	5.5	104
71	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
72	Active Sites in Supported Single-Site Catalysts: An NMR Perspective. Journal of the American Chemical Society, 2017, 139, 10588-10596.	6.6	103

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73	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
74	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
75	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
76	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
77	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
78	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
79	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
80	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
81	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
82	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
83	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
84	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
85	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
86	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
87	Silver Nanoparticles for Olefin Production: New Insights into the Mechanistic Description of Propyne Hydrogenation. ChemCatChem, 2013, 5, 3750-3759.	1.8	88
88	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
89	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
90	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

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91	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
92	Metathesis Activity Encoded in the Metallacyclobutane Carbon-13 NMR Chemical Shift Tensors. ACS Central Science, 2017, 3, 759-768.	5.3	84
93	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
94	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
95	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
96	Molecular design of heterogeneous catalysts: the case of olefin metathesis. New Journal of Chemistry, 2004, 28, 1-10.	1.4	82
97	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
98	Design and understanding of heterogeneous alkene metathesis catalysts. Dalton Transactions, 2007, , 5498.	1.6	80
99	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
100	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
101	Well-Defined Surface Tungstenocarbyne Complexes through the Reaction of [W(â‹®CtBu)(CH2tBu)3] with Silica. Organometallics, 2005, 24, 4274-4279.	1.1	79
102	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
103	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
104	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
105	Supported Bimetallic NiFe Nanoparticles through Colloid Synthesis for Improved Dry Reforming Performance. ACS Catalysis, 2017, 7, 6942-6948.	5.5	77
106	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
107	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
108	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

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109	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
110	Three-Dimensional Structure Determination of Surface Sites. Journal of the American Chemical Society, 2017, 139, 849-855.	6.6	75
111	Dynamic nuclear polarization at 40 kHz magic angle spinning. Physical Chemistry Chemical Physics, 2016, 18, 10616-10622.	1.3	74
112	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
113	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
114	CH3ReO3 on Î³-Al2O3: Understanding Its Structure, Initiation, and Reactivity in Olefin Metathesis. Angewandte Chemie - International Edition, 2007, 46, 3870-3873.	7.2	72
115	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
116	Tailored Ruâ€NHC Heterogeneous Catalysts for Alkene Metathesis. Chemistry - A European Journal, 2009, 15, 11820-11823.	1.7	70
117	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
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119	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
120	Low Temperature Activation of Supported Metathesis Catalysts by Organosilicon Reducing Agents. ACS Central Science, 2016, 2, 569-576.	5.3	65
121	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
122	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
123	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
124	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
125	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
126	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

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127	Tetrahydrofuran in TiCl₄/THF/MgCl₂: a Non-Innocent Ligand for Supported Zieglerâ€“Natta Polymerization Catalysts. ACS Catalysis, 2013, 3, 52-56.	5.5	58
128	Magnitude and consequences of OR ligand Ïƒ-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
129	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
130	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
131	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
132	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
133	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
134	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
135	Heterogeneous alkane dehydrogenation catalysts investigated via a surface organometallic chemistry approach. Chemical Society Reviews, 2021, 50, 5806-5822.	18.7	56
136	Metallacyclobutanes from Schrock-Type d⁰ Metal Alkylidene Catalysts: Structural Preferences and Consequences in Alkene Metathesis. Organometallics, 2015, 34, 1668-1680.	1.1	55
137	Monomeric Copper(II) Sites Supported on Alumina Selectively Convert Methane to Methanol. Angewandte Chemie - International Edition, 2019, 58, 9841-9845.	7.2	55
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