

# Bruce C Gates

## List of Publications by Year in descending order

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202  
papers

13,641  
citations

23879

60  
h-index

28425

109  
g-index

218  
all docs

218  
docs citations

218  
times ranked

13052  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Life History of the Metal-Organic Framework UiO-66 Catalyzing Methanol Dehydration: Synthesis, Activation, Deactivation, and Demise. <i>Chemistry of Materials</i> , 2022, 34, 3395-3408.   | 3.2 | 11        |
| 2  | Iridium pair sites anchored to Zr <sub>6</sub> O <sub>8</sub> nodes of the metal-organic framework UiO-66 catalyze ethylene hydrogenation. <i>Journal of Catalysis</i> , 2022, 411, 177-186.  | 3.1 | 3         |
| 3  | Atomically Dispersed Platinum in Surface and Subsurface Sites on MgO Have Contrasting Catalytic Properties for CO Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3896-3903.  | 2.1 | 7         |
| 4  | Transformation of reduced graphene aerogel-supported atomically dispersed iridium into stable clusters approximated as Ir <sub>6</sub> during ethylene hydrogenation catalysis. <i>Journal of Catalysis</i> , 2022, 413, 603-613.   | 3.1 | 2         |
| 5  | Prototype Atomically Dispersed Supported Metal Catalysts: Iridium and Platinum. <i>Small</i> , 2021, 17, e2004665.  | 5.2 | 27        |
| 6  | Elucidating and Tuning Catalytic Sites on Zirconium- and Aluminum-Containing Nodes of Stable Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2021, 54, 1982-1991.  | 7.6 | 29        |
| 7  | Pair Sites on Nodes of Metal-Organic Framework hcp UiO-66 Catalyze <i>tert</i> -Butyl Alcohol Dehydration. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6085-6089.  | 2.1 | 8         |
| 8  | Beyond Radical Rebound: Methane Oxidation to Methanol Catalyzed by Iron Species in Metal-Organic Framework Nodes. <i>Journal of the American Chemical Society</i> , 2021, 143, 12165-12174.   | 6.6 | 51        |
| 9  | Characterization of a Metal-Organic Framework Zr <sub>6</sub> O <sub>8</sub> Node-Supported Atomically Dispersed Iridium Catalyst for Ethylene Hydrogenation by X-ray Absorption Near-Edge Structure and Infrared Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16995-17007.                  | 1.5 | 5         |
| 10 | Pair sites on Al <sub>3</sub> O nodes of the metal-organic framework MIL-100: Cooperative roles of defect and structural vacancy sites in methanol dehydration catalysis. <i>Journal of Catalysis</i> , 2021, 404, 128-138.   | 3.1 | 16        |
| 11 | A Theory-Guided X-ray Absorption Spectroscopy Approach for Identifying Active Sites in Atomically Dispersed Transition-Metal Catalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 20144-20156.   | 6.6 | 28        |
| 12 | Propane Dehydrogenation Catalyzed by Isolated Pt Atoms in $\gamma$ -SiO <sub>2</sub> -OH Nests in Dealuminated Zeolite Beta. <i>Journal of the American Chemical Society</i> , 2021, 143, 21364-21378.  | 6.6 | 92        |
| 13 | Synthesis of Rh <sub>6</sub> (CO) <sub>16</sub> in Supercages of Zeolite HY: Reaction Network and Kinetics of Formation from Mononuclear Rhodium Precursors via Rh <sub>4</sub> (CO) <sub>12</sub> Facilitated by the Water Gas Shift Half-Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2513-2520. | 1.5 | 11        |
| 14 | Synthesis and characterization of tetrairidium clusters in the metal organic framework UiO-67: Catalyst for ethylene hydrogenation. <i>Journal of Catalysis</i> , 2020, 382, 165-172.   | 3.1 | 23        |
| 15 | Iridium Atoms Bonded to Crystalline Powder MgO: Characterization by Imaging and Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 459-468.  | 1.5 | 10        |
| 16 | Electronic Structure of Atomically Dispersed Supported Iridium Catalyst Controls Iridium Aggregation. <i>ACS Catalysis</i> , 2020, 10, 12354-12358.   | 5.5 | 17        |
| 17 | Supported Metal Pair-Site Catalysts. <i>ACS Catalysis</i> , 2020, 10, 9065-9085.  | 5.5 | 67        |
| 18 | Dialing in Catalytic Sites on Metal Organic Framework Nodes: MIL-53(Al) and MIL-68(Al) Probed with Methanol Dehydration Catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53537-53546.   | 4.0 | 34        |

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|----|---|------|-----------|
| 19 | The Surface Chemistry of Metal Oxide Clusters: From Metal-Organic Frameworks to Minerals. ACS Central Science, 2020, 6, 1523-1533.  | 5.3  | 46        |
| 20 | Dispersed Nickel Boosts Catalysis by Copper in CO <sub>2</sub> Hydrogenation. ACS Catalysis, 2020, 10, 9261-9270.   | 5.5  | 52        |
| 21 | Atomically Dispersed Metals on Well-Defined Supports including Zeolites and Metal-Organic Frameworks: Structure, Bonding, Reactivity, and Catalysis. Chemical Reviews, 2020, 120, 11956-11985.  | 23.0 | 137       |
| 22 | Atomically Dispersed Ru on Manganese Oxide Catalyst Boosts Oxidative Cyanation. ACS Catalysis, 2020, 10, 6299-6308.   | 5.5  | 51        |
| 23 | Core-shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO <sub>2</sub> . Chemical Society Reviews, 2020, 49, 2937-3004.  | 18.7 | 479       |
| 24 | Isostructural Atomically Dispersed Rhodium Catalysts Supported on SAPO-37 and on HY Zeolite. Journal of the American Chemical Society, 2020, 142, 11474-11485.  | 6.6  | 22        |
| 25 | Multimodal Synchrotron Approach: Research Needs and Scientific Vision. Synchrotron Radiation News, 2020, 33, 44-47.   | 0.2  | 3         |
| 26 | Tuning Catalytic Sites on Zr <sub>6</sub> O <sub>8</sub> Metal-Organic Framework Nodes via Ligand and Defect Chemistry Probed with <i>tert</i> -Butyl Alcohol Dehydration to Isobutylene. Journal of the American Chemical Society, 2020, 142, 8044-8056.   | 6.6  | 83        |
| 27 | Silica accelerates the selective hydrogenation of CO <sub>2</sub> to methanol on cobalt catalysts. Nature Communications, 2020, 11, 1033.   | 5.8  | 124       |
| 28 | Docking of tetra-methyl zirconium to the surface of silica: a well-defined pre-catalyst for conversion of CO <sub>2</sub> to cyclic carbonates. Chemical Communications, 2020, 56, 3528-3531.   | 2.2  | 16        |
| 29 | Tuning Zr <sub>12</sub> O <sub>22</sub> Node Defects as Catalytic Sites in the Metal-Organic Framework hcp UiO-66. ACS Catalysis, 2020, 10, 2906-2914.  | 5.5  | 90        |
| 30 | Unraveling the individual influences of supports and ionic liquid coatings on the catalytic properties of supported iridium complexes and iridium clusters. Journal of Catalysis, 2020, 387, 186-195.   | 3.1  | 18        |
| 31 | Mechanistic Study of Hydroamination of Alkyne through Tantalum-Based Silica-Supported Surface Species. ACS Catalysis, 2019, 9, 8719-8725.   | 5.5  | 15        |
| 32 | Atomically Dispersed Reduced Graphene Aerogel-Supported Iridium Catalyst with an Iridium Loading of 14.8 wt %. ACS Catalysis, 2019, 9, 9905-9913.   | 5.5  | 55        |
| 33 | Spectroscopic Characterization of $\frac{1}{4}\text{-}\dot{\text{I}}^{\text{sup}}\text{-}\dot{\text{I}}^{\text{sup}}\text{-Peroxo}$ Ligands Formed by Reaction of Dioxygen with Electron-Rich Iridium Clusters. Inorganic Chemistry, 2019, 58, 14338-14348. | 1.9  | 4         |
| 34 | Structure, Dynamics, and Reactivity for Light Alkane Oxidation of Fe(II) Sites Situated in the Nodes of a Metal-Organic Framework. Journal of the American Chemical Society, 2019, 141, 18142-18151.  | 6.6  | 80        |
| 35 | MgO-Supported Iridium Metal Pair-Site Catalysts Are More Active and Resistant to CO Poisoning than Analogous Single-Site Catalysts for Ethylene Hydrogenation and Hydrogen-Deuterium Exchange. ACS Catalysis, 2019, 9, 9545-9553.                           | 5.5  | 25        |
| 36 | Controlling catalytic activity and selectivity for partial hydrogenation by tuning the environment around active sites in iridium complexes bonded to supports. Chemical Science, 2019, 10, 2623-2632.  | 3.7  | 40        |

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|----|---|------|-----------|
| 37 | Product Selectivity Controlled by Nanoporous Environments in Zeolite Crystals Enveloping Rhodium Nanoparticle Catalysts for CO <sub>2</sub> Hydrogenation. <i>Journal of the American Chemical Society</i> , 2019, 141, 8482-8488.  | 6.6  | 242       |
| 38 | Atomically Dispersed Supported Metal Catalysts: Seeing Is Believing. <i>Trends in Chemistry</i> , 2019, 1, 99-110.  | 4.4  | 55        |
| 39 | Tuning the Properties of Zr <sub>6</sub> O <sub>8</sub> Nodes in the Metal Organic Framework UiO-66 by Selection of Node-Bound Ligands and Linkers. <i>Chemistry of Materials</i> , 2019, 31, 1655-1663.  | 3.2  | 97        |
| 40 | Bulky Calixarene Ligands Stabilize Supported Iridium Pair-Site Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 4010-4015.   | 6.6  | 34        |
| 41 | Reversible Metal Aggregation and Redispersion Driven by the Catalytic Water Gas Shift Half-Reactions: Interconversion of Single-Site Rhodium Complexes and Tetrahodium Clusters in Zeolite HY. <i>ACS Catalysis</i> , 2019, 9, 3311-3321.   | 5.5  | 31        |
| 42 | Tungsten Catalyst Incorporating a Well-Defined Tetracoordinated Aluminum Surface Ligand for Selective Metathesis of Propane, [( $\mu_3$ -Si <sup>~</sup> O <sup>~</sup> Si $\mu_3$ )( $\mu_3$ -Si <sup>~</sup> O <sup>~</sup> Al <sup>~</sup> O <sup>~</sup> W( $\mu_3$ -C<i>t</i>Bu) 1.8 (H) <sub>2</sub> ]. <i>ChemCatChem</i> , 2019, 11, 614-620. |      | 2         |
| 43 | Catalysis by Metal Organic Frameworks: Perspective and Suggestions for Future Research. <i>ACS Catalysis</i> , 2019, 9, 1779-1798.  | 5.5  | 622       |
| 44 | Structure and Dynamics of Zr <sub>6</sub> O <sub>8</sub> Metal-Organic Framework Node Surfaces Probed with Ethanol Dehydration as a Catalytic Test Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 3751-3759.  | 6.6  | 150       |
| 45 | Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. <i>Nature Communications</i> , 2018, 9, 1362.   | 5.8  | 161       |
| 46 | Correction to "Tuning Zr <sub>6</sub> Metal-Organic Framework (MOF) Nodes as Catalyst Supports: Site Densities and Electron-Donor Properties Influence Molecular Iridium Complexes as Ethylene Conversion Catalysts". <i>ACS Catalysis</i> , 2018, 8, 2364-2364.  | 5.5  | 3         |
| 47 | A Silica-Supported Monoalkylated Tungsten Dioxo Complex Catalyst for Olefin Metathesis. <i>ACS Catalysis</i> , 2018, 8, 2715-2729.  | 5.5  | 38        |
| 48 | Beating Heterogeneity of Single-Site Catalysts: MgO-Supported Iridium Complexes. <i>ACS Catalysis</i> , 2018, 8, 3489-3498.   | 5.5  | 64        |
| 49 | Stable Rhodium Pair Sites on MgO: Influence of Ligands and Rhodium Nuclearity on Catalysis of Ethylene Hydrogenation and H <sup>~</sup> D Exchange in the Reaction of H <sub>2</sub> with D <sub>2</sub> . <i>ACS Catalysis</i> , 2018, 8, 482-487.   | 5.5  | 35        |
| 50 | Imine Metathesis Catalyzed by a Silica-Supported Hafnium Imido Complex. <i>ACS Catalysis</i> , 2018, 8, 9440-9446.  | 5.5  | 20        |
| 51 | Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. <i>Nature Catalysis</i> , 2018, 1, 540-546.  | 16.1 | 297       |
| 52 | Supported cluster catalysts synthesized to be small, simple, selective, and stable. <i>Faraday Discussions</i> , 2018, 208, 9-33.   | 1.6  | 8         |
| 53 | Weakly interacting solvation spheres surrounding a calixarene-protected tetrairidium carbonyl cluster: contrasting effects on reactivity of alkane solvent and silica support. <i>Dalton Transactions</i> , 2018, 47, 13550-13558.  | 1.6  | 8         |
| 54 | The challenges of characterising nanoparticulate catalysts: general discussion. <i>Faraday Discussions</i> , 2018, 208, 339-394.  | 1.6  | 5         |

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|----|---|------|-----------|
| 55 | Tuning the properties of metal-organic framework nodes as supports of single-site iridium catalysts: node modification by atomic layer deposition of aluminium. <i>Faraday Discussions</i> , 2017, 201, 195-206.  | 1.6  | 30        |
| 56 | Experimental investigation of upgrading of lignin-derived bio-oil component anisole catalyzed by carbon nanotube-supported molybdenum. <i>RSC Advances</i> , 2017, 7, 10545-10556.  | 1.7  | 38        |
| 57 | A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9747-9751.   | 7.2  | 248       |
| 58 | A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. <i>Angewandte Chemie</i> , 2017, 129, 9879-9883.  | 1.6  | 81        |
| 59 | Dialing in single-site reactivity of a supported calixarene-protected tetrairidium cluster catalyst. <i>Chemical Science</i> , 2017, 8, 4951-4960.  | 3.7  | 18        |
| 60 | Role of N-Heterocyclic Carbenes as Ligands in Iridium Carbonyl Clusters. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5029-5044.   | 1.1  | 7         |
| 61 | High-Energy-Resolution X-ray Absorption Spectroscopy for Identification of Reactive Surface Species on Supported Single-Site Iridium Catalysts. <i>Chemistry - A European Journal</i> , 2017, 23, 14760-14768.  | 1.7  | 35        |
| 62 | From single-site tantalum complexes to nanoparticles of Ta <sub>x</sub> N <sub>y</sub> and TaO <sub>x</sub> N <sub>y</sub> supported on silica: elucidation of synthesis chemistry by dynamic nuclear polarization surface enhanced NMR spectroscopy and X-ray absorption spectroscopy. <i>Chemical Science</i> , 2017, 8, 5650-5661. | 3.7  | 14        |
| 63 | Molecular Rhodium Complexes Supported on the Metal-Oxide-Like Nodes of Metal Organic Frameworks and on Zeolite HY: Catalysts for Ethylene Hydrogenation and Dimerization. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33511-33520.   | 4.0  | 69        |
| 64 | Innentitelbild: A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores ( <i>Angew. Chem.</i> 33/2017). <i>Angewandte Chemie</i> , 2017, 129, 9756-9756.   | 1.6  | 3         |
| 65 | Uniformity begets selectivity. <i>Nature Materials</i> , 2017, 16, 703-704.   | 13.3 | 10        |
| 66 | Single-Site Osmium Catalysts on MgO: Reactivity and Catalysis of CO Oxidation. <i>Chemistry - A European Journal</i> , 2017, 23, 2532-2536.   | 1.7  | 18        |
| 67 | Atomically dispersed supported metal catalysts: perspectives and suggestions for future research. <i>Catalysis Science and Technology</i> , 2017, 7, 4259-4275.   | 2.1  | 221       |
| 68 | Tuning the Selectivity of Single-Site Supported Metal Catalysts with Ionic Liquids. <i>ACS Catalysis</i> , 2017, 7, 6969-6972.  | 5.5  | 51        |
| 69 | Beyond Ordered Materials: Understanding Catalytic Sites on Amorphous Solids. <i>ACS Catalysis</i> , 2017, 7, 7543-7557.   | 5.5  | 134       |
| 70 | High-Energy-Resolution X-ray Absorption Spectroscopy for Identification of Reactive Surface Species on Supported Single-Site Iridium Catalysts. <i>Chemistry - A European Journal</i> , 2017, 23, 14669-14669.  | 1.7  | 0         |
| 71 | Concluding remarks: progress toward the design of solid catalysts. <i>Faraday Discussions</i> , 2016, 188, 591-602.   | 1.6  | 6         |
| 72 | Experimental Investigation on Upgrading of Lignin-Derived Bio-Oils: Kinetic Analysis of Anisole Conversion on Sulfided CoMo/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>International Journal of Chemical Kinetics</i> , 2016, 48, 702-713.   | 1.0  | 35        |

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|----|---|-----|-----------|
| 73 | Homogeneity of Surface Sites in Supported Single-Site Metal Catalysts: Assessment with Band Widths of Metal Carbonyl Infrared Spectra. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3854-3860.   | 2.1 | 100       |
| 74 | Tuning the Surface Chemistry of Metal Organic Framework Nodes: Proton Topology of the Metal-Oxide-Like Zr <sub>6</sub> Nodes of UiO-66 and NU-1000. <i>Journal of the American Chemical Society</i> , 2016, 138, 15189-15196.                                 | 6.6 | 155       |
| 75 | Hydroprocessing of 4-methylanisole as a representative of lignin-derived bio-oils catalyzed by sulphided CoMo/Al <sub>2</sub> O <sub>3</sub> : A semi-quantitative reaction network. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1524-1532.   | 0.9 | 37        |
| 76 | Tracking Rh Atoms in Zeolite HY: First Steps of Metal Cluster Formation and Influence of Metal Nuclearity on Catalysis of Ethylene Hydrogenation and Ethylene Dimerization. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2537-2543.                | 2.1 | 44        |
| 77 | Controlling the hydrogenolysis of silica-supported tungsten pentamethyl leads to a class of highly electron deficient partially alkylated metal hydrides. <i>Chemical Science</i> , 2016, 7, 1558-1568.   | 3.7 | 53        |
| 78 | Rhodium pair-sites on magnesium oxide: Synthesis, characterization, and catalysis of ethylene hydrogenation. <i>Journal of Catalysis</i> , 2016, 338, 12-20.  | 3.1 | 24        |
| 79 | Toward Benchmarking in Catalysis Science: Best Practices, Challenges, and Opportunities. <i>ACS Catalysis</i> , 2016, 6, 2590-2602.   | 5.5 | 190       |
| 80 | Tuning Zr <sub>6</sub> Metal-Organic Framework (MOF) Nodes as Catalyst Supports: Site Densities and Electron-Donor Properties Influence Molecular Iridium Complexes as Ethylene Conversion Catalysts. <i>ACS Catalysis</i> , 2016, 6, 235-247.                | 5.5 | 150       |
| 81 | Single-Site Zeolite-Anchored Organoiridium Carbonyl Complexes: Characterization of Structure and Reactivity by Spectroscopy and Computational Chemistry. <i>Chemistry - A European Journal</i> , 2015, 21, 11825-11835.                                       | 1.7 | 25        |
| 82 | Mononuclear Iridium Dinitrogen Complexes Bonded to Zeolite HY. <i>Chemistry - A European Journal</i> , 2015, 21, 631-640.   | 1.7 | 10        |
| 83 | Metal-Organic Framework Nodes as Nearly Ideal Supports for Molecular Catalysts: NU-1000- and UiO-66-Supported Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 7391-7396.  | 6.6 | 228       |
| 84 | Migration of Single Iridium Atoms and Tri-iridium Clusters on MgO Surfaces: Aberration-Corrected STEM Imaging and Ab Initio Calculations. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4675-4679.  | 2.1 | 12        |
| 85 | Upgrading of Lignin-Derived Bio-oil Components Catalyzed by Pt/Al <sub>2</sub> O <sub>3</sub> : Kinetics and Reaction Pathways Characterizing Conversion of Cyclohexanone with H <sub>2</sub> . <i>Energy &amp; Fuels</i> , 2015, 29, 191-199.                | 2.5 | 41        |
| 86 | Genesis of Delaminated-Zeolite Morphology: 3-D Characterization of Changes by STEM Tomography. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2598-2602.   | 2.1 | 5         |
| 87 | Imaging individual lanthanum atoms in zeolite Y by scanning transmission electron microscopy: Evidence of lanthanum pair sites. <i>Microporous and Mesoporous Materials</i> , 2015, 213, 95-99.   | 2.2 | 9         |
| 88 | Agglomerative Sintering of an Atomically Dispersed Ir <sub>1</sub> /Zeolite Y Catalyst: Compelling Evidence Against Ostwald Ripening but for Bimolecular and Autocatalytic Agglomeration Catalyst Sintering Steps. <i>ACS Catalysis</i> , 2015, 5, 3514-3527. | 5.5 | 66        |
| 89 | Molecular models of site-isolated cobalt, rhodium, and iridium catalysts supported on zeolites: Ligand bond dissociation energies. <i>Computational and Theoretical Chemistry</i> , 2015, 1074, 58-72.  | 1.1 | 14        |
| 90 | Isostructural Zeolite-Supported Rhodium and Iridium Complexes: Tuning Catalytic Activity and Selectivity by Ligand Modification. <i>ACS Catalysis</i> , 2015, 5, 5647-5656.   | 5.5 | 58        |



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|-----|---|------|-----------|
| 91  | Selective molecular recognition by nanoscale environments in a supported iridium cluster catalyst. <i>Nature Nanotechnology</i> , 2014, 9, 459-465.   | 15.6 | 53        |
| 92  | Formation of supported rhodium clusters from mononuclear rhodium complexes controlled by the support and ligands on rhodium. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1262-1270.  | 1.3  | 24        |
| 93  | Beyond Relationships Between Homogeneous and Heterogeneous Catalysis. <i>Catalysis Letters</i> , 2014, 144, 1785-1789.  | 1.4  | 4         |
| 94  | Molecular Metal Catalysts on Supports: Organometallic Chemistry Meets Surface Science. <i>Accounts of Chemical Research</i> , 2014, 47, 2612-2620.  | 7.6  | 187       |
| 95  | Iridium Complexes and Clusters in Dealuminated Zeolite HY: Distribution between Crystalline and Impurity Amorphous Regions. <i>ACS Catalysis</i> , 2014, 4, 2662-2666.  | 5.5  | 12        |
| 96  | A Single-Site Platinum CO Oxidation Catalyst in Zeolite KLTL: Microscopic and Spectroscopic Determination of the Locations of the Platinum Atoms. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8904-8907.   | 7.2  | 263       |
| 97  | Upgrading of Anisole in a Dielectric Barrier Discharge Plasma Reactor. <i>Energy &amp; Fuels</i> , 2014, 28, 4545-4553.   | 2.5  | 36        |
| 98  | Upgrading of lignin-derived bio-oils by catalytic hydrodeoxygenation. <i>Energy and Environmental Science</i> , 2014, 7, 103-129.   | 15.6 | 764       |
| 99  | Quantitative Z-contrast Imaging in Scanning Transmission Electron Microscopy of Zeolite-supported Metal Clusters and Single-metal-atom Complexes With Single-Atom Sensitivity. <i>Microscopy and Microanalysis</i> , 2014, 20, 148-149.                                   | 0.2  | 1         |
| 100 | Quantitative Z-Contrast Imaging of Supported Metal Complexes and Clusters—A Gateway to Understanding Catalysis on the Atomic Scale. <i>ChemCatChem</i> , 2013, 5, 2673-2683.  | 1.8  | 14        |
| 101 | Supported gold catalysts: new properties offered by nanometer and sub-nanometer structures. <i>Chemical Communications</i> , 2013, 49, 7876.  | 2.2  | 35        |
| 102 | Surface-Mediated Synthesis of Dimeric Rhodium Catalysts on MgO: Tracking Changes in the Nuclearity and Ligand Environment of the Catalytically Active Sites by X-ray Absorption and Infrared Spectroscopies. <i>Chemistry - A European Journal</i> , 2013, 19, 1235-1245. | 1.7  | 38        |
| 103 | Zeolite- and MgO-supported rhodium complexes and rhodium clusters: Tuning catalytic properties to control carbon-carbon vs. carbon-hydrogen bond formation reactions of ethene in the presence of H <sub>2</sub> . <i>Journal of Catalysis</i> , 2013, 308, 201-212.      | 3.1  | 32        |
| 104 | Zeolite-supported bimetallic catalyst: controlling selectivity of rhodium complexes by nearby iridium complexes. <i>Catalysis Science and Technology</i> , 2013, 3, 2199.   | 2.1  | 11        |
| 105 | Three-Dimensional Structural Analysis of MgO-Supported Osmium Clusters by Electron Microscopy with Single-Atom Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5262-5265.   | 7.2  | 17        |
| 106 | Structures and Stability of Irn(CO) <sub>m</sub> . <i>Molecular Physics</i> , 2012, 110, 1977-1992.   | 0.8  | 9         |
| 107 | Katalyseforscher, vereinigt Euch!. <i>Angewandte Chemie</i> , 2012, 124, 11812-11813.   | 1.6  | 4         |
| 108 | Selective Hydrodeoxygenation of Guaiacol Catalyzed by Platinum Supported on Magnesium Oxide. <i>Catalysis Letters</i> , 2012, 142, 1190-1196.   | 1.4  | 108       |

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|-----|---|-----|-----------|
| 109 | Sinter-Resistant Catalysts: Supported Iridium Nanoclusters with Intrinsically Limited Sizes. <i>Catalysis Letters</i> , 2012, 142, 1445-1451.   | 1.4 | 22        |
| 110 | Atomically Resolved Site-Isolated Catalyst on MgO: Mononuclear Osmium Dicarbonyls formed from Os <sub>3</sub> (CO) <sub>12</sub> . <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1865-1871.   | 2.1 | 21        |
| 111 | Catalytic conversion of compounds representative of lignin-derived bio-oils: a reaction network for guaiacol, anisole, 4-methylanisole, and cyclohexanone conversion catalysed by Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Science and Technology</i> , 2012, 2, 113-118. | 2.1 | 158       |
| 112 | Tuning Catalytic Selectivity: Zeolite- and Magnesium Oxide-Supported Molecular Rhodium Catalysts for Hydrogenation of 1,3-Butadiene. <i>ACS Catalysis</i> , 2012, 2, 2100-2113.   | 5.5 | 69        |
| 113 | Mononuclear Zeolite-Supported Iridium: Kinetic, Spectroscopic, Electron Microscopic, and Size-Selective Poisoning Evidence for an Atomically Dispersed True Catalyst at 22 Å°C. <i>ACS Catalysis</i> , 2012, 2, 1947-1957.  | 5.5 | 47        |
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| 115 | Hydrogen Activation and Metal Hydride Formation Trigger Cluster Formation from Supported Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 5022-5025.   | 6.6 | 52        |
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