# Robert H Crabtree

List of Publications by Year
in descending order



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|---|---|---|---|
| 198 papers | 27,496 citations | 7069 78 h-index | 5519 163 g-index |
| 205 all docs | 205 docs citations | 205 times ranked | 19805 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Optimization of Surface Loading of the Silatrane Anchoring Group on TiO<sub>2</sub>. ACS Applied Materials & Interfaces, 2022, 14, 6582-6589. | 4.0 | 7 |
| 2 | Operando Structureâ€“Activityâ€“Stability Relationship of Iridium Oxides during the Oxygen Evolution Reaction. ACS Catalysis, 2022, 12, 5174-5184. | 5.5 | 40 |
| 3 | Electrocatalytic, Homogeneous Ammonia Oxidation in Water to Nitrate and Nitrite with a Copper Complex. Journal of the American Chemical Society, 2022, 144, 8449-8453. | 6.6 | 31 |
| 4 | Malcolm L. H. Green. 16 April 1936 â€” 24 July 2020. Biographical Memoirs of Fellows of the Royal Society, 2021, 70, 175-188. | 0.1 | 0 |
| 5 | Electronic and Spin-State Effects on Dinitrogen Splitting to Nitrides in a Rhenium Pincer System. Inorganic Chemistry, 2021, 60, 6115-6124. | 1.9 | 12 |
| 6 | Distorted Copper(II) Complex with Unusually Short CFÂ·Â·Â·Cu Distances. Inorganic Chemistry, 2021, 60, 14759-14764. | 1.9 | 1 |
| 7 | Accessing Molecular Dimeric Ir Water Oxidation Catalysts from Coordination Precursors. Inorganic Chemistry, 2021, 60, 14349-14356. | 1.9 | 12 |
| 8 | Organometallic complexes as preferred precursors to form molecular Ir(pyalk) coordination complexes for catalysis of oxygen evolution. Inorganica Chimica Acta, 2021, 526, 120507. | 1.2 | 2 |
| 9 | Concerted proton-electron transfer oxidation of phenols and hydrocarbons by a high-valent nickel complex. Chemical Science, 2020, 11, 1683-1690. | 3.7 | 14 |
| 10 | Alternate Strategies for Solar Fuels from Carbon Dioxide. ACS Energy Letters, 2020, 5, 2505-2507. | 8.8 | 8 |
| 11 | Diazo coupling for surface attachment of small molecules to TiO<sub>2</sub> nanoparticles. Chemical Communications, 2020, 56, 9340-9343. | 2.2 | 5 |
| 12 | Surface-Attached Molecular Catalysts on Visible-Light-Absorbing Semiconductors: Opportunities and Challenges for a Stable Hybrid Water-Splitting Photoanode. ACS Energy Letters, 2020, 5, 3195-3202. | 8.8 | 31 |
| 13 | Surprisingly big linker-dependence of activity and selectivity in CO<sub>2</sub> reduction by an iridium(<scp>i</scp>) pincer complex. Chemical Communications, 2020, 56, 9126-9129. | 2.2 | 10 |
| 14 | Silatrane Anchors for Metal Oxide Surfaces: Optimization for Potential Photocatalytic and Electrocatalytic Applications. ACS Applied Materials & Interfaces, 2019, 11, 5602-5609. | 4.0 | 28 |
| 15 | Transfer Hydrogenation with Glycerol as H-Donor: Catalyst Activation, Deactivation and Homogeneity. ACS Sustainable Chemistry and Engineering, 2019, 7, 15845-15853. | 3.2 | 38 |
| 16 | Strongly Coupled Phenazineâ€“Porphyrin Dyads: Light-Harvesting Molecular Assemblies with Broad Absorption Coverage. ACS Applied Materials & Interfaces, 2019, 11, 8000-8008. | 4.0 | 36 |
| 17 | High Oxidation State Complexes of Rhodium and Iridium. , 2019, , 159-159. | | 0 |
| 18 | Modification of a pyridine-alkoxide ligand during the synthesis of coordination compounds. Inorganica Chimica Acta, 2019, 484, 75-78. | 1.2 | 2 |

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|---|---|---|---|
| 19 | N,N,O Pincer Ligand with a Deprotonatable Site That Promotes Redoxâ€Leveling, High Mn Oxidation States, and a Mn 2 O 2 Dimer Competent for Catalytic Oxygen Evolution. European Journal of Inorganic Chemistry, 2019, 2019, 2115-2123. | 1.0 | 8 |
| 20 | A Dinuclear Iridium(V,V) Oxo-Bridged Complex Characterized Using a Bulk Electrolysis Technique for Crystallizing Highly Oxidizing Compounds. Inorganic Chemistry, 2018, 57, 5684-5691. | 1.9 | 17 |
| 21 | Direct Interfacial Electron Transfer from High-Potential Porphyrins into Semiconductor Surfaces: A Comparison of Linkers and Anchoring Groups. Journal of Physical Chemistry C, 2018, 122, 13529-13539. | 1.5 | 31 |
| 22 | Key factors in pincer ligand design. Chemical Society Reviews, 2018, 47, 1959-1968. | 18.7 | 364 |
| 23 | On the damage done to the structure of the Thermoplasma acidophilum proteasome by electron radiation. Protein Science, 2018, 27, 2051-2061. | 3.1 | 5 |
| 24 | Unusual Stability of a Bacteriochlorin Electrocatalyst under Reductive Conditions. A Case Study on CO<sub>2</sub> Conversion to CO. ACS Catalysis, 2018, 8, 10131-10136. | 5.5 | 28 |
| 25 | Some crystal growth strategies for diffraction structure studies of iridium complexes. Inorganica Chimica Acta, 2018, 480, 183-188. | 1.2 | 3 |
| 26 | Water-Nucleophilic Attack Mechanism for the Cu<sup>II</sup>(pyalk)<sub>2</sub> Water-Oxidation Catalyst. ACS Catalysis, 2018, 8, 7952-7960. | 5.5 | 37 |
| 27 | A Pyridine Alkoxide Chelate Ligand That Promotes Both Unusually High Oxidation States and Water-Oxidation Catalysis. Accounts of Chemical Research, 2017, 50, 952-959. | 7.6 | 84 |
| 28 | Hypervalency, secondary bonding and hydrogen bonding: siblings under the skin. Chemical Society Reviews, 2017, 46, 1720-1729. | 18.7 | 96 |
| 29 | Inferring Protonation States of Hydroxamate Adsorbates on TiO<sub>2</sub> Surfaces. Journal of Physical Chemistry C, 2017, 121, 11985-11990. | 1.5 | 5 |
| 30 | Nitrogen-Containing Liquid Organic Hydrogen Carriers: Progress and Prospects. ACS Sustainable Chemistry and Engineering, 2017, 5, 4491-4498. | 3.2 | 89 |
| 31 | Antimony Complexes for Electrocatalysis: Activity of a Mainâ€Group Element in Proton Reduction. Angewandte Chemie - International Edition, 2017, 56, 9111-9115. | 7.2 | 51 |
| 32 | Anchoring groups for photocatalytic water oxidation on metal oxide surfaces. Chemical Society Reviews, 2017, 46, 6099-6110. | 18.7 | 189 |
| 33 | Synthesis of pyridine-alkoxide ligands for formation of polynuclear complexes. New Journal of Chemistry, 2017, 41, 6709-6719. | 1.4 | 12 |
| 34 | Electrocatalytic Water Oxidation by a Copper(II) Complex of an Oxidation-Resistant Ligand. ACS Catalysis, 2017, 7, 3384-3387. | 5.5 | 149 |
| 35 | Homogeneous Transition Metal Catalysis of Acceptorless Dehydrogenative Alcohol Oxidation: Applications in Hydrogen Storage and to Heterocycle Synthesis. Chemical Reviews, 2017, 117, 9228-9246. | 23.0 | 432 |
| 36 | Linker Length-Dependent Electron-Injection Dynamics of Trimesitylporphyrins on SnO<sub>2</sub> Films. Journal of Physical Chemistry C, 2017, 121, 22690-22699. | 1.5 | 13 |

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| 37 | Synthesis and Characterization of Iridium(V) Coordination Complexes With an N,Oâ€Donor Organic Ligand. Angewandte Chemie, 2017, 129, 13227-13231. | 1.6 | 11 |
| 38 | Optimization of Photoanodes for Photocatalytic Water Oxidation by Combining a Heterogenized Iridium Waterâ€Oxidation Catalyst with a Highâ€Potential Porphyrin Photosensitizer. ChemSusChem, 2017, 10, 4526-4534. | 3.6 | 34 |
| 39 | Antimony Complexes for Electrocatalysis: Activity of a Mainâ€Group Element in Proton Reduction. Angewandte Chemie, 2017, 129, 9239-9243. | 1.6 | 12 |
| 40 | Synthesis and Characterization of Iridium(V) Coordination Complexes With an N,Oâ€Donor Organic Ligand. Angewandte Chemie - International Edition, 2017, 56, 13047-13051. | 7.2 | 24 |
| 41 | Activation, Deactivation and Reversibility in a Series of Homogeneous Iridium Dehydrogenation Catalysts. Israel Journal of Chemistry, 2017, 57, 937-944. | 1.0 | 14 |
| 42 | Redox Activity of Oxo-Bridged Iridium Dimers in an N,O-Donor Environment: Characterization of Remarkably Stable Ir(IV,V) Complexes. Journal of the American Chemical Society, 2017, 139, 9672-9683. | 6.6 | 45 |
| 43 | Introduction: CH Activation. Chemical Reviews, 2017, 117, 8481-8482. | 23.0 | 264 |
| 44 | A full set of iridium(<scp>iv</scp>) pyridine-alkoxide stereoisomers: highly geometry-dependent redox properties. Chemical Science, 2017, 8, 1642-1652. | 3.7 | 32 |
| 45 | Cp* versus Bis-carbonyl Iridium Precursors as CH Oxidation Precatalysts. Organometallics, 2017, 36, 199-206. | 1.1 | 9 |
| 46 | Heterogenized Iridium Water-Oxidation Catalyst from a Silatrane Precursor. ACS Catalysis, 2016, 6, 5371-5377. | 5.5 | 79 |
| 47 | High-Potential Porphyrins Supported on SnO<sub>2</sub> and TiO<sub>2</sub> Surfaces for Photoelectrochemical Applications. Journal of Physical Chemistry C, 2016, 120, 28971-28982. | 1.5 | 28 |
| 48 | Solution Structures of Highly Active Molecular Ir Water-Oxidation Catalysts from Density Functional Theory Combined with High-Energy X-ray Scattering and EXAFS Spectroscopy. Journal of the American Chemical Society, 2016, 138, 5511-5514. | 6.6 | 63 |
| 49 | Electrocatalytic Nitrogen Fixation for Distributed Fertilizer Production?. ACS Sustainable Chemistry and Engineering, 2016, 4, 5855-5858. | 3.2 | 59 |
| 50 | One-Step Trimethylstannylation of Benzyl and Alkyl Halides. Journal of Organic Chemistry, 2016, 81, 9483-9488. | 1.7 | 4 |
| 51 | Catalytic Oxygen Evolution from Manganese Complexes with an Oxidationâ€Resistant N,N,Oâ€Donor Ligand. ChemPlusChem, 2016, 81, 1129-1132. | 1.3 | 18 |
| 52 | Controlling the rectification properties of molecular junctions through moleculeâ€“electrode coupling. Nanoscale, 2016, 8, 16357-16362. | 2.8 | 33 |
| 53 | Organometallic Iridium Complex Containing a Dianionic, Tridentate, Mixed Organicâ€“Inorganic Ligand. Inorganic Chemistry, 2016, 55, 8121-8129. | 1.9 | 4 |
| 54 | High Oxidation State Iridium Mono-Î¼-oxo Dimers Related to Water Oxidation Catalysis. Journal of the American Chemical Society, 2016, 138, 15917-15926. | 6.6 | 41 |

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| 55 | Surface-Induced Deprotection of THP-Protected Hydroxamic Acids on Titanium Dioxide. Journal of Physical Chemistry C, 2016, 120, 12495-12502. | 1.5 | 11 |
| 56 | Molecular design of light-harvesting photosensitizers: effect of varied linker conjugation on interfacial electron transfer. Physical Chemistry Chemical Physics, 2016, 18, 18678-18682. | 1.3 | 21 |
| 57 | Structureâ€“function relationships in single molecule rectification by N-phenylbenzamide derivatives. New Journal of Chemistry, 2016, 40, 7373-7378. | 1.4 | 7 |
| 58 | New Ir Bis-Carbonyl Precursor for Water Oxidation Catalysis. Inorganic Chemistry, 2016, 55, 2427-2435. | 1.9 | 28 |
| 59 | Dihydrogen Complexation. Chemical Reviews, 2016, 116, 8750-8769. | 23.0 | 170 |
| 60 | Molecular titaniumâ€“hydroxamate complexes as models for TiO<sub>2</sub> surface binding. Chemical Communications, 2016, 52, 2972-2975. | 2.2 | 30 |
| 61 | Facile solvolysis of a surprisingly twisted tertiary amide. New Journal of Chemistry, 2016, 40, 1974-1981. | 1.4 | 3 |
| 62 | Towards multielectron photocatalysis: a porphyrin array for lateral hole transfer and capture on a metal oxide surface. Physical Chemistry Chemical Physics, 2015, 17, 12728-12734. | 1.3 | 29 |
| 63 | A Stable Coordination Complex of Rh(IV) in an N,O-Donor Environment. Journal of the American Chemical Society, 2015, 137, 15692-15695. | 6.6 | 27 |
| 64 | Methanol Dehydrogenation by Iridium N-Heterocyclic Carbene Complexes. Inorganic Chemistry, 2015, 54, 5079-5084. | 1.9 | 146 |
| 65 | A molecular catalyst for water oxidation that binds to metal oxide surfaces. Nature Communications, 2015, 6, 6469. | 5.8 | 256 |
| 66 | Molecular Catalysts for Water Oxidation. Chemical Reviews, 2015, 115, 12974-13005. | 23.0 | 964 |
| 67 | Iridium catalyzed reversible dehydrogenation â€“ Hydrogenation of quinoline derivatives under mild conditions. Journal of Organometallic Chemistry, 2015, 792, 184-189. | 0.8 | 71 |
| 68 | Stable Iridium(IV) Complexes of an Oxidation-Resistant Pyridine-Alkoxide Ligand: Highly Divergent Redox Properties Depending on the Isomeric Form Adopted. Journal of the American Chemical Society, 2015, 137, 7243-7250. | 6.6 | 51 |
| 69 | Iridium-based complexes for water oxidation. Dalton Transactions, 2015, 44, 12452-12472. | 1.6 | 156 |
| 70 | Preparation of Halogenated Fluorescent Diaminophenazine Building Blocks. Journal of Organic Chemistry, 2015, 80, 9881-9888. | 1.7 | 14 |
| 71 | Gel-assisted crystallization of [Ir<sub>4</sub>(IMe)<sub>7</sub>(CO)H<sub>10</sub>]<sup>2+</sup> and [Ir<sub>4</sub>(IMe)<sub>8</sub>H<sub>9</sub>]<sup>3+</sup> clusters derived from catalytic glycerol dehydrogenation. Dalton Transactions, 2015, 44, 18403-18410. | 1.6 | 20 |
| 72 | Computational Design of Intrinsic Molecular Rectifiers Based on Asymmetric Functionalization of N-Phenylbenzamide. Journal of Chemical Theory and Computation, 2015, 11, 5888-5896. | 2.3 | 34 |

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| 73 | Selective conversion of glycerol to lactic acid with iron pincer precatalysts. Chemical Communications, 2015, 51, 16201-16204. | 2.2 | 86 |
| 74 | Deactivation in Homogeneous Transition Metal Catalysis: Causes, Avoidance, and Cure. Chemical Reviews, 2015, 115, 127-150. | 23.0 | 294 |
| 75 | Selective catalytic oxidation of sugar alcohols to lactic acid. Green Chemistry, 2015, 17, 594-600. | 4.6 | 52 |
| 76 | The stability of organometallic ligands in oxidation catalysis. Journal of Organometallic Chemistry, 2014, 751, 174-180. | 0.8 | 34 |
| 77 | Linker Rectifiers for Covalent Attachment of Transitionâ€Metal Catalysts to Metalâ€Oxide Surfaces. ChemPhysChem, 2014, 15, 1138-1147. | 1.0 | 20 |
| 78 | Co(ii), a catalyst for selective conversion of phenyl rings to carboxylic acid groups. RSC Advances, 2014, 4, 49395-49399. | 1.7 | 6 |
| 79 | A heterogeneous water oxidation catalyst from dicobalt octacarbonyl and 1,2-bis(diphenylphosphino)ethane. New Journal of Chemistry, 2014, 38, 1540. | 1.4 | 13 |
| 80 | Metal-free amidation of ether sp3 Câ€“H bonds with sulfonamides using PhI(OAc)2. RSC Advances, 2014, 4, 47951-47957. | 1.7 | 23 |
| 81 | Experimental and computational studies of borohydride catalyzed hydrosilylation of a variety of Cî€O and Cî€N functionalities including esters, amides and heteroarenes. New Journal of Chemistry, 2014, 38, 1694-1700. | 1.4 | 42 |
| 82 | Electrochemical Activation of Cp* Iridium Complexes for Electrode-Driven Water-Oxidation Catalysis. Journal of the American Chemical Society, 2014, 136, 13826-13834. | 6.6 | 105 |
| 83 | Efficient selective and atom economic catalytic conversion of glycerol to lactic acid. Nature Communications, 2014, 5, 5084. | 5.8 | 207 |
| 84 | Catalyst Activation by Loss of Cyclopentadienyl Ligands in Hydrogen Transfer Catalysis with Cp*Ir<sup>III</sup> Complexes. ACS Catalysis, 2014, 4, 973-985. | 5.5 | 68 |
| 85 | A Carbeneâ€Rich but Carbonylâ€Poor [Ir<sub>6</sub>(IMe)<sub>8</sub>(CO)<sub>2</sub>H<sub>14</sub>]<sup>2+</sup> Polyhydride Cluster as a Deactivation Product from Catalytic Glycerol Dehydrogenation. Angewandte Chemie - International Edition, 2014, 53, 12808-12811. | 7.2 | 42 |
| 86 | A Carbeneâ€Rich but Carbonylâ€Poor [Ir<sub>6</sub>(IMe)<sub>8</sub>(CO)<sub>2</sub>H<sub>14</sub>]<sup>2+</sup> Polyhydride Cluster as a Deactivation Product from Catalytic Glycerol Dehydrogenation. Angewandte Chemie, 2014, 126, 13022-13025. | 1.6 | 9 |
| 87 | Modular Assembly of High-Potential Zinc Porphyrin Photosensitizers Attached to TiO<sub>2</sub> with a Series of Anchoring Groups. Journal of Physical Chemistry C, 2013, 117, 14526-14533. | 1.5 | 90 |
| 88 | Probing the Viability of Oxo-Coupling Pathways in Iridium-Catalyzed Oxygen Evolution. Organometallics, 2013, 32, 5384-5390. | 1.1 | 42 |
| 89 | Electron Injection Dynamics from Photoexcited Porphyrin Dyes into SnO2 and TiO2 Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 21662-21670. | 1.5 | 54 |
| 90 | Efficiency of Interfacial Electron Transfer from Zn-Porphyrin Dyes into TiO<sub>2</sub> Correlated to the Linker Single Molecule Conductance. Journal of Physical Chemistry C, 2013, 117, 24462-24470. | 1.5 | 55 |

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| 91 | Abnormal, mesoionic and remote N-heterocyclic carbene complexes. Coordination Chemistry Reviews, 2013, 257, 755-766. | 9.5 | 501 |
| 92 | Comparison of primary oxidants for water-oxidation catalysis. Chemical Society Reviews, 2013, 42, 2247-2252. | 18.7 | 227 |
| 93 | Hydroxamate Anchors for Improved Photoconversion in Dye-Sensitized Solar Cells. Inorganic Chemistry, 2013, 52, 6752-6764. | 1.9 | 102 |
| 94 | Cp* Iridium Precatalysts for Selective Câ€“H Oxidation with Sodium Periodate As the Terminal Oxidant. Organometallics, 2013, 32, 957-965. | 1.1 | 60 |
| 95 | Outer sphere hydrogenation catalysis. New Journal of Chemistry, 2013, 37, 21-27. | 1.4 | 161 |
| 96 | Redox-active ligands in catalysis. Chemical Society Reviews, 2013, 42, 1440-1459. | 18.7 | 880 |
| 97 | Precursor Transformation during Molecular Oxidation Catalysis with Organometallic Iridium Complexes. Journal of the American Chemical Society, 2013, 135, 10837-10851. | 6.6 | 193 |
| 98 | Particle Formation during Oxidation Catalysis with Cp* Iridium Complexes. Journal of the American Chemical Society, 2012, 134, 9785-9795. | 6.6 | 150 |
| 99 | Light-driven water oxidation for solar fuels. Coordination Chemistry Reviews, 2012, 256, 2503-2520. | 9.5 | 337 |
| 100 | Sodium Periodate as a Primary Oxidant for Water-Oxidation Catalysts. Inorganic Chemistry, 2012, 51, 6147-6152. | 1.9 | 86 |
| 101 | Symmetrical Hydrogen Bonds in Iridium(III) Alkoxides with Relevance to Outer Sphere Hydrogen Transfer. Inorganic Chemistry, 2012, 51, 12313-12323. | 1.9 | 17 |
| 102 | A tridentate Ni pincer for aqueous electrocatalytic hydrogen production. New Journal of Chemistry, 2012, 36, 1149. | 1.4 | 88 |
| 103 | Fuel selection for a regenerative organic fuel cell/flow battery: thermodynamic considerations. Energy and Environmental Science, 2012, 5, 9534. | 15.6 | 35 |
| 104 | Cp* Iridium Precatalysts for Selective Câ€“H Oxidation via Direct Oxygen Insertion: A Joint Experimental/Computational Study. ACS Catalysis, 2012, 2, 208-218. | 5.5 | 82 |
| 105 | Bioinspired High-Potential Porphyrin Photoanodes. Journal of Physical Chemistry C, 2012, 116, 4892-4902. | 1.5 | 69 |
| 106 | Electron-Rich CpIr(biphenyl-2,2â€²-diyl) Complexes with Ï€-Accepting Carbon Donor Ligands. Organometallics, 2012, 31, 7158-7164. | 1.1 | 17 |
| 107 | Reduction of Systematic Uncertainty in DFT Redox Potentials of Transition-Metal Complexes. Journal of Physical Chemistry C, 2012, 116, 6349-6356. | 1.5 | 145 |
| 108 | Resolving Heterogeneity Problems and Impurity Artifacts in Operationally Homogeneous Transition Metal Catalysts. Chemical Reviews, 2012, 112, 1536-1554. | 23.0 | 576 |

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| 109 | Anodic deposition of a robust iridium-based water-oxidation catalyst from organometallic precursors. Chemical Science, 2011, 2, 94-98. | 3.7 | 219 |
| 110 | Secondary Coordination Sphere Interactions Facilitate the Insertion Step in an Iridium(III) CO<sub>2</sub> Reduction Catalyst. Journal of the American Chemical Society, 2011, 133, 9274-9277. | 6.6 | 388 |
| 111 | An Iridium(IV) Species, [Cp*Ir(NHC)Cl]<sup>+</sup>, Related to a Water-Oxidation Catalyst. Organometallics, 2011, 30, 965-973. | 1.1 | 127 |
| 112 | Oxidative Synthesis of Amides and Pyrroles via Dehydrogenative Alcohol Oxidation by Ruthenium Diphosphine Diamine Complexes. Organometallics, 2011, 30, 4174-4179. | 1.1 | 180 |
| 113 | Definition of the hydrogen bond (IUPAC Recommendations 2011). Pure and Applied Chemistry, 2011, 83, 1637-1641. | 0.9 | 1,449 |
| 114 | Defining the hydrogen bond: An account (IUPAC Technical Report). Pure and Applied Chemistry, 2011, 83, 1619-1636. | 0.9 | 856 |
| 115 | Iridium-Catalyzed Hydrogenation of N-Heterocyclic Compounds under Mild Conditions by an Outer-Sphere Pathway. Journal of the American Chemical Society, 2011, 133, 7547-7562. | 6.6 | 296 |
| 116 | A visible light water-splitting cell with a photoanode formed by codeposition of a high-potential porphyrin and an iridium water-oxidation catalyst. Energy and Environmental Science, 2011, 4, 2389. | 15.6 | 257 |
| 117 | Distinguishing Homogeneous from Heterogeneous Catalysis in Electrode-Driven Water Oxidation with Molecular Iridium Complexes. Journal of the American Chemical Society, 2011, 133, 10473-10481. | 6.6 | 293 |
| 118 | Multifunctional ligands in transition metal catalysis. New Journal of Chemistry, 2011, 35, 18-23. | 1.4 | 229 |
| 119 | Cp* Iridium Complexes Give Catalytic Alkane Hydroxylation with Retention of Stereochemistry. Journal of the American Chemical Society, 2010, 132, 12550-12551. | 6.6 | 106 |
| 120 | Creating Ligands with Multiple Personalities. Science, 2010, 330, 455-456. | 6.0 | 29 |
| 121 | Water-stable, hydroxamate anchors for functionalization of TiO2 surfaces with ultrafast interfacial electron transfer. Energy and Environmental Science, 2010, 3, 917. | 15.6 | 99 |
| 122 | Half-Sandwich Iridium Complexes for Homogeneous Water-Oxidation Catalysis. Journal of the American Chemical Society, 2010, 132, 16017-16029. | 6.6 | 507 |
| 123 | An Experimentalâ˜Theoretical Study of the Factors That Affect the Switch between Ruthenium-Catalyzed Dehydrogenative Amide Formation versus Amine Alkylation. Organometallics, 2010, 29, 6548-6558. | 1.1 | 103 |
| 124 | Acyl Protection Strategy for Synthesis of a Protic NHC Complex via N-Acyl Methanolysis. Organometallics, 2010, 29, 5728-5731. | 1.1 | 50 |
| 125 | Dehydrogenation as a Substrate-Activating Strategy in Homogeneous Transition-Metal Catalysis. Chemical Reviews, 2010, 110, 681-703. | 23.0 | 1,457 |
| 126 | Deposition of an oxomanganese water oxidation catalyst on TiO2 nanoparticles: computational modeling, assembly and characterization. Energy and Environmental Science, 2009, 2, 230. | 15.6 | 80 |

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| 127 | Highly Active and Robust Cp* Iridium Complexes for Catalytic Water Oxidation. Journal of the American Chemical Society, 2009, 131, 8730-8731. | 6.6 | 561 |
| 128 | Hydroxamate anchors for water-stable attachment to TiO2 nanoparticles. Energy and Environmental Science, 2009, 2, 1173. | 15.6 | 91 |
| 129 | Mechanism of Homogeneous Iridium-Catalyzed Alkylation of Amines with Alcohols from a DFT Study. Organometallics, 2008, 27, 2529-2535. | 1.1 | 149 |
| 130 | Acetylacetonate Anchors for Robust Functionalization of TiO<sub>2</sub>Nanoparticles with Mn(II)â^'Terpyridine Complexes. Journal of the American Chemical Society, 2008, 130, 14329-14338. | 6.6 | 151 |
| 131 | Hydrogen storage in liquid organic heterocycles. Energy and Environmental Science, 2008, 1, 134. | 15.6 | 348 |
| 132 | Characterization of siloxane adsorbates covalently attached to TiO 2. Proceedings of SPIE, 2008, , . | 0.8 | 10 |
| 133 | Iridium(III) Complexes with the Weakly Bonded Anions [BF4 ]- and [Oso2 CF3 ]-. Inorganic Syntheses, 2007, , 22-27. | 0.3 | 2 |
| 134 | No Protection Required. Science, 2007, 318, 756-757. | 6.0 | 8 |
| 135 | Pentahydridobis(Tricyclohexylphosphine)-Iridium(V) and Trihydridotris(Triphenylphos-phine)Iridium(III). Inorganic Syntheses, 2007, , 303-308. | 0.3 | 5 |
| 136 | Dihydridobis(Solvent)Bis(Triphenyl-Phosphine)Iridium(III) Tetrafluoroborates. Inorganic Syntheses, 2007, , 56-60. | 0.3 | 6 |
| 137 | Dihydridobis(Solvent)Bis(Triphenylphosphine)Iridium(III) Tetrafluoroborates. Inorganic Syntheses, 2007, , 122-126. | 0.3 | 4 |
| 138 | Syntheses, 2007, , 173-176. | 0.3 | 16 |
| 139 | Iridium(III) Complexes with the Weakly Bonded Anions [Bf4 ]- and [Oso2 Cf3 ]-. Inorganic Syntheses, 2007, , 117-121. | 0.3 | 2 |
| 140 | Atom economic synthesis of amides via transition metal catalyzed rearrangement of oxaziridines. Green Chemistry, 2007, 9, 976. | 4.6 | 36 |
| 141 | Computational structureâ€“activity relationships in H2storage: how placement of N atoms affects release temperatures in organic liquid storage materials. Chemical Communications, 2007, , 2231-2233. | 2.2 | 163 |
| 142 | Ultrafast Photooxidation of Mn(II)â^'Terpyridine Complexes Covalently Attached to TiO<sub>2</sub> Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 11982-11990. | 1.5 | 82 |
| 143 | Catalysed low temperature H2 release from nitrogen heterocycles. New Journal of Chemistry, 2006, 30, 1675. | 1.4 | 121 |
| 144 | Interplay of Linker,N-Substituent, and Counterion Effects in the Formation and Geometrical Distortion ofN-Heterocyclic Biscarbene Complexes of Rhodium(I). Organometallics, 2006, 25, 6099-6107. | 1.1 | 124 |

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| 145 | Chelate and Pincer Carbene Complexes. , 2006, , 223-239. | | 3 |
| 146 | Electronic and Steric Effects in the Insertion of Alkynes into an Iridium(III) Hydride. Organometallics, 2005, 24, 62-76. | 1.1 | 71 |
| 147 | Intramolecular Oxygen Transfer from Nitro Groups to Câ‹®C Bonds Mediated by Iridium Hydrides. Organometallics, 2005, 24, 3066-3073. | 1.1 | 40 |
| 148 | Axially Chiral Bidentate N-Heterocyclic Carbene Ligands Derived from BINAM:Â Rhodium and Iridium Complexes in Asymmetric Ketone Hydrosilylation. Organometallics, 2005, 24, 4432-4436. | 1.1 | 127 |
| 149 | Cycloiridation of Î±,Î²-Unsaturated Ketones, Esters, and Acetophenone. Organometallics, 2005, 24, 4810-4815. | 1.1 | 46 |
| 150 | Stoichiometric Câˆ'C Coupling Reactions in the Coordination Sphere of an Iridium(III) Alkyl. Organometallics, 2004, 23, 3378-3387. | 1.1 | 45 |
| 151 | Reactivity Differences in the Syntheses of Chelating N-Heterocyclic Carbene Complexes of Rhodium Are Ascribed to Ligand Anisotropy. Organometallics, 2004, 23, 1253-1263. | 1.1 | 199 |
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