

Aaron K Vannucci

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 54 papers | 2,852 citations | 25 h-index | 53 g-index |
| 60 ext. papers | 3,126 ext. citations | 9.9 avg, IF | 5.17 L-index |

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 54 | Molecular Chromophore-Catalyst Assemblies for Solar Fuel Applications. <i>Chemical Reviews</i> , 2015 , 115, 13006-49 | 68.1 | 352 |
| 53 | Review of electrochemical studies of complexes containing the Fe ₂ S ₂ core characteristic of [FeFe]-hydrogenases including catalysis by these complexes of the reduction of acids to form dihydrogen. <i>Journal of Organometallic Chemistry</i> , 2009 , 694, 2681-2699 | 2.3 | 349 |
| 52 | Hydrogen generation from weak acids: electrochemical and computational studies of a diiron hydrogenase mimic. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12521-30 | 16.4 | 308 |
| 51 | Electrocatalytic water oxidation by a monomeric amidate-ligated Fe(III)-aqua complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5531-4 | 16.4 | 179 |
| 50 | The role of proton coupled electron transfer in water oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 7704 | 35.4 | 175 |
| 49 | Self-assembled bilayer films of ruthenium(II)/polypyridyl complexes through layer-by-layer deposition on nanostructured metal oxides. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12782-5 | 16.4 | 112 |
| 48 | Base-enhanced catalytic water oxidation by a carboxylate-bipyridine Ru(II) complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4935-40 | 11.5 | 108 |
| 47 | Crossing the divide between homogeneous and heterogeneous catalysis in water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20918-22 | 11.5 | 107 |
| 46 | Water oxidation by an electropolymerized catalyst on derivatized mesoporous metal oxide electrodes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6578-81 | 16.4 | 96 |
| 45 | Water oxidation intermediates applied to catalysis: benzyl alcohol oxidation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3972-5 | 16.4 | 74 |
| 44 | Synthesis of Diiron Hydrogenase Mimics Bearing Hydroquinone and Related Ligands. Electrochemical and Computational Studies of the Mechanism of Hydrogen Production and the Role of O-H...S Hydrogen Bonding. <i>Organometallics</i> , 2010 , 29, 5330-5340 | 3.8 | 69 |
| 43 | Visible light driven benzyl alcohol dehydrogenation in a dye-sensitized photoelectrosynthesis cell. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9773-9 | 16.4 | 67 |
| 42 | Electrochemical Instability of Phosphonate-Derivatized, Ruthenium(III) Polypyridyl Complexes on Metal Oxide Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9554-62 | 9.5 | 66 |
| 41 | Photoredox-Assisted Reductive Cross-Coupling: Mechanistic Insight into Catalytic Aryl-Alkyl Cross-Couplings. <i>Journal of Organic Chemistry</i> , 2017 , 82, 1996-2003 | 4.2 | 63 |
| 40 | Electronic and geometric effects of phosphatrimazaadamantane ligands on the catalytic activity of an [FeFe] hydrogenase inspired complex. <i>Dalton Transactions</i> , 2010 , 39, 3050-6 | 4.3 | 60 |
| 39 | Hydrogen Generation from Weak Acids: Electrochemical and Computational Studies in the [(C ₅ H ₅)Fe(CO) ₂] ₂ System. <i>Organometallics</i> , 2008 , 27, 4671-4679 | 3.8 | 55 |
| 38 | Proton-coupled electron transfer at modified electrodes by multiple pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E1461-9 | 11.5 | 54 |

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| 37 | Rational Synthesis of Metallo-Cations Toward Redox- and Alkaline-Stable Metallo-Polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1083-1089 | 16.4 | 52 |
| 36 | One-electron activation of water oxidation catalysis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6854-7 | 16.4 | 48 |
| 35 | Thermodynamics of the Metal-Hydrogen Bonds in (C ₅ H ₅)M(CO)2H (M = Fe, Ru, Os). <i>Organometallics</i> , 2011 , 30, 3444-3447 | 3.8 | 44 |
| 34 | Redox-Active Corannulene Buckybowls in a Crystalline Hybrid Scaffold. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2195-9 | 16.4 | 40 |
| 33 | Self-assembled bilayers on indium-tin oxide (SAB-ITO) electrodes: a design for chromophore-catalyst photoanodes. <i>Inorganic Chemistry</i> , 2012 , 51, 8637-9 | 5.1 | 32 |
| 32 | Nonaqueous Electrocatalytic Oxidation of the Alkylaromatic Ethylbenzene by a Surface Bound RuV(O) Catalyst. <i>ACS Catalysis</i> , 2012 , 2, 716-719 | 13.1 | 31 |
| 31 | Photoelectron spectroscopy of dithiolatodiiironhexacarbonyl models for the active site of [FeFe] hydrogenases: Insight into the reorganization energy of the putative structure in the enzyme. <i>Journal of Molecular Structure</i> , 2008 , 890, 281-288 | 3.4 | 30 |
| 30 | Hierarchical Corannulene-Based Materials: Energy Transfer and Solid-State Photophysics. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4525-4529 | 16.4 | 26 |
| 29 | Nickel Dual Photoredox Catalysis for the Synthesis of Aryl Amines. <i>Organometallics</i> , 2018 , 37, 1468-1472 | 3.8 | 22 |
| 28 | Low temperature selective hydrodeoxygenation of model lignin monomers from a homogeneous palladium catalyst. <i>Catalysis Today</i> , 2018 , 302, 146-150 | 5.3 | 16 |
| 27 | Recent advancements in the development of molecular organic photocatalysts. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 4816-4834 | 3.9 | 15 |
| 26 | UV-irradiation of self-assembled triphenylamines affords persistent and regenerable radicals. <i>Chemical Science</i> , 2019 , 10, 2670-2677 | 9.4 | 14 |
| 25 | Redox-Active Corannulene Buckybowls in a Crystalline Hybrid Scaffold. <i>Angewandte Chemie</i> , 2016 , 128, 2235-2239 | 3.6 | 14 |
| 24 | Guest Inclusion Modulates Concentration and Persistence of Photogenerated Radicals in Assembled Triphenylamine Macrocycles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 502-511 | 16.4 | 14 |
| 23 | A Molecular/Heterogeneous Nickel Catalyst for Suzuki-Miyaura Coupling. <i>Organometallics</i> , 2019 , 38, 2007-2014 | 3.8 | 12 |
| 22 | Photocatalytic Oxidative Coupling of Arylamines for the Synthesis of Azoaromatics and the Role of O in the Mechanism. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2938-2943 | 16.4 | 12 |
| 21 | A Dual Threat: Redox-Activity and Electronic Structures of Well-Defined Donor-Acceptor Fullerene Covalent-Organic Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6000-6006 | 16.4 | 11 |
| 20 | New insights into solvolysis and reorganization energy from gas-phase, electrochemical, and theoretical studies of oxo-Tp*Mo(V) molecules. <i>Inorganic Chemistry</i> , 2009 , 48, 8856-62 | 5.1 | 11 |

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| 19 | Selective N1-Acylation of Indazoles with Acid Anhydrides Using an Electrochemical Approach. <i>Organic Letters</i> , 2019 , 21, 457-460 | 6.2 | 11 |
| 18 | Hierarchical Corannulene-Based Materials: Energy Transfer and Solid-State Photophysics. <i>Angewandte Chemie</i> , 2017 , 129, 4596-4600 | 3.6 | 10 |
| 17 | Bis-Cyclometalated Iridium Complexes Containing 4,4'-Bis(phosphonomethyl)-2,2'-bipyridine Ligands: Photophysics, Electrochemistry, and High-Voltage Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2020 , 59, 6351-6358 | 5.1 | 10 |
| 16 | Mild synthesis of silyl ethers via potassium carbonate catalyzed reactions between alcohols and hydrosilanes. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 3415-3418 | 3.9 | 10 |
| 15 | Self-Assembled Bilayer Films of Ruthenium(II)/Polypyridyl Complexes through Layer-by-Layer Deposition on Nanostructured Metal Oxides. <i>Angewandte Chemie</i> , 2012 , 124, 12954-12957 | 3.6 | 10 |
| 14 | Silica Supported Molecular Palladium Catalyst for Selective Hydrodeoxygenation of Aromatic Compounds under Mild Conditions. <i>ACS Catalysis</i> , 2019 , 9, 9060-9071 | 13.1 | 9 |
| 13 | Transition-Metal-Free and Base-Free Electrosynthesis of 1H-Substituted Benzimidazoles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 690-695 | 8.3 | 9 |
| 12 | Phosphine-Substituted (η -Pentadienyl) Manganese Carbonyl Complexes: Geometric Structures, Electronic Structures, and Energetic Properties of the Associative Substitution Mechanism, Including Isolation of the Slipped η -Pentadienyl Associative Intermediate. <i>Organometallics</i> , 2014 , 33, 278-288 | 3.8 | 8 |
| 11 | Electrochemical anion pool synthesis of amides with concurrent benzyl ester synthesis. <i>Green Chemistry</i> , 2019 , 21, 3165-3171 | 10 | 7 |
| 10 | Structural, electrochemical and photophysical properties of an exocyclic di-ruthenium complex and its application as a photosensitizer. <i>Dalton Transactions</i> , 2016 , 45, 9601-7 | 4.3 | 6 |
| 9 | A Series of Green Light Absorbing Organic Photosensitizers Capable of Oxidative Quenching Photocatalysis. <i>ChemPhotoChem</i> , 2021 , 5, 51-57 | 3.3 | 5 |
| 8 | Determining the Catalyst Properties That Lead to High Activity and Selectivity for Catalytic Hydrodeoxygenation with Ruthenium Pincer Complexes. <i>Organometallics</i> , 2020 , 39, 662-669 | 3.8 | 4 |
| 7 | Catalysis of Electrochemical Reduction of Weak Acids to Produce H ₂ : Role of O-H \cdots H Hydrogen Bonding. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011 , 186, 1288-1292 | 1 | 4 |
| 6 | A Dual Threat: Redox-Activity and Electronic Structures of Well-Defined Donor-Acceptor Fullerene Covalent-Organic Materials. <i>Angewandte Chemie</i> , 2020 , 132, 6056-6062 | 3.6 | 3 |
| 5 | Assembled triphenylamine-urea macrocycles: exploring photodriven electron transfer from host to guests. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23953-23960 | 3.6 | 2 |
| 4 | Immobilization of molecular catalysts on solid supports via atomic layer deposition for chemical synthesis in sustainable solvents. <i>Green Chemistry</i> , 2021 , 23, 9523-9533 | 10 | 1 |
| 3 | "Broken-hearted" carbon bowl electron shuttle reaction: energetics and electron coupling. <i>Chemical Science</i> , 2021 , 12, 6600-6606 | 9.4 | 1 |
| 2 | Determining the active catalytic palladium species under hydrodeoxygenation conditions. <i>Journal of Organometallic Chemistry</i> , 2021 , 944, 121848 | 2.3 | |

- ¹ Titelbild: Redox-Active Corannulene Buckybowls in a Crystalline Hybrid Scaffold (Angew. Chem. 6/2016). *Angewandte Chemie*, **2016**, 128, 1963-1963 3.6