

Aaron K Vannucci

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
53	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
52	Determining the active catalytic palladium species under hydrodeoxygenation conditions. <i>Journal of Organometallic Chemistry</i> , 2021 , 944, 121848	2.3	
51	A Series of Green Light Absorbing Organic Photosensitizers Capable of Oxidative Quenching Photocatalysis. <i>ChemPhotoChem</i> , 2021 , 5, 51-57	3.3	5
50	Recent advancements in the development of molecular organic photocatalysts. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 4816-4834	3.9	15
49	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
48	"Broken-hearted" carbon bowl electron shuttle reaction: energetics and electron coupling. <i>Chemical Science</i> , 2021 , 12, 6600-6606	9.4	1
47	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
46	A Dual Threat: Redox-Activity and Electronic Structures of Well-Defined Donor-Acceptor Fulleretic Covalent-Organic Materials. <i>Angewandte Chemie</i> , 2020 , 132, 6056-6062	3.6	3
45	A Dual Threat: Redox-Activity and Electronic Structures of Well-Defined Donor-Acceptor Fulleretic Covalent-Organic Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6000-6006	16.4	11
44	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
43	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
42	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
41	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
40	UV-irradiation of self-assembled triphenylamines affords persistent and regenerable radicals. <i>Chemical Science</i> , 2019 , 10, 2670-2677	9.4	14
39	Electrochemical anion pool synthesis of amides with concurrent benzyl ester synthesis. <i>Green Chemistry</i> , 2019 , 21, 3165-3171	10	7
38	A Molecular/Heterogeneous Nickel Catalyst for Suzuki-Miyaura Coupling. <i>Organometallics</i> , 2019 , 38, 2007-2014	3.8	12

37	Selective N1-Acylation of Indazoles with Acid Anhydrides Using an Electrochemical Approach. <i>Organic Letters</i> , 2019 , 21, 457-460	6.2	11
36	Nickel Dual Photoredox Catalysis for the Synthesis of Aryl Amines. <i>Organometallics</i> , 2018 , 37, 1468-1472	3.8	22
35	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
34	Low temperature selective hydrodeoxygenation of model lignin monomers from a homogeneous palladium catalyst. <i>Catalysis Today</i> , 2018 , 302, 146-150	5.3	16
33	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
32	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
31	Hierarchical Corannulene-Based Materials: Energy Transfer and Solid-State Photophysics. <i>Angewandte Chemie</i> , 2017 , 129, 4596-4600	3.6	10
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	Redox-Active Corannulene Buckybowls in a Crystalline Hybrid Scaffold. <i>Angewandte Chemie</i> , 2016 , 128, 2235-2239	3.6	14
28	Redox-Active Corannulene Buckybowls in a Crystalline Hybrid Scaffold. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2195-9	16.4	40
27	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
26	Titelbild: Redox-Active Corannulene Buckybowls in a Crystalline Hybrid Scaffold (Angew. Chem. 6/2016). <i>Angewandte Chemie</i> , 2016 , 128, 1963-1963	3.6	
25	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
24	Molecular Chromophore-Catalyst Assemblies for Solar Fuel Applications. <i>Chemical Reviews</i> , 2015 , 115, 13006-49	68.1	352
23	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
22	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
21	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
20	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

19	One-electron activation of water oxidation catalysis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6854-7	16.4	48
18	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
17	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
16	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
15	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
14	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
13	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
12	Water oxidation intermediates applied to catalysis: benzyl alcohol oxidation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3972-5	16.4	74
11	The role of proton coupled electron transfer in water oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 7704	35.4	175
10	Catalysis of Electrochemical Reduction of Weak Acids to Produce H ₂ : Role of O-H...H Hydrogen Bonding. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011 , 186, 1288-1292	1	4
9	Thermodynamics of the Metal-Hydrogen Bonds in (C ₅ H ₅)M(CO) ₂ H (M = Fe, Ru, Os). <i>Organometallics</i> , 2011 , 30, 3444-3447	3.8	44
8	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
7	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...H Hydrogen Bonding. <i>Organometallics</i> , 2010 , 29, 5330-5340	3.8	69
6	Electronic and geometric effects of phosphatridiazadamantane ligands on the catalytic activity of an [FeFe] hydrogenase inspired complex. <i>Dalton Transactions</i> , 2010 , 39, 3050-6	4.3	60
5	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
4	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
3	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
2	Photoelectron spectroscopy of dithiolatodiironhexacarbonyl 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

- 1 Hydrogen generation from weak acids: electrochemical and computational studies of a diiron hydrogenase mimic. *Journal of the American Chemical Society*, **2007**, 129, 12521-30 16.4 308