

# Samantha I Johnson

## List of Publications by Year in descending order

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27  
papers

862  
citations

471509

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26  
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27  
docs citations

27  
times ranked

1329  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Proton-hydride tautomerism in hydrogen evolution catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6409-6414.   | 7.1  | 114       |
| 2  | Mechanism of Catalytic O <sub>2</sub> Reduction by Iron Tetraphenylporphyrin. Journal of the American Chemical Society, 2019, 141, 8315-8326.  | 13.7 | 99        |
| 3  | Catalytic Silylation of N <sub>2</sub> and Synthesis of NH <sub>3</sub> and N <sub>2</sub> H <sub>4</sub> by Net Hydrogen Atom Transfer Reactions Using a Chromium P <sub>4</sub> Macrocyclic. Journal of the American Chemical Society, 2018, 140, 2528-2536. | 13.7 | 78        |
| 4  | Oxidation of Ammonia with Molecular Complexes. Journal of the American Chemical Society, 2020, 142, 17845-17858.   | 13.7 | 70        |
| 5  | Catalytic Ammonia Oxidation to Dinitrogen by Hydrogen Atom Abstraction. Angewandte Chemie - International Edition, 2019, 58, 11618-11624.  | 13.8 | 52        |
| 6  | Diversion of Catalytic C-N Bond Formation to Catalytic Oxidation of NH <sub>3</sub> through Modification of the Hydrogen Atom Abstractor. Journal of the American Chemical Society, 2020, 142, 3361-3365.  | 13.7 | 46        |
| 7  | Improved thermoelectric properties in Zn-doped Ca <sub>5</sub> Ga <sub>2</sub> Sb <sub>6</sub> . Journal of Materials Chemistry A, 2013, 1, 4244.  | 10.3 | 44        |
| 8  | Reactivity of a Series of Isostructural Cobalt Pincer Complexes with CO <sub>2</sub> , CO, and H <sub>2</sub> . Inorganic Chemistry, 2014, 53, 13031-13041.  | 4.0  | 41        |
| 9  | Selectivity-Determining Steps in O <sub>2</sub> Reduction Catalyzed by Iron(tetramesitylporphyrin). Journal of the American Chemical Society, 2020, 142, 4108-4113.  | 13.7 | 41        |
| 10 | Role of Ligand Protonation in Dihydrogen Evolution from a Pentamethylcyclopentadienyl Rhodium Catalyst. Inorganic Chemistry, 2017, 56, 11375-11386.  | 4.0  | 40        |
| 11 | Selectivity for HCO <sub>2</sub> <sup>-</sup> over H <sub>2</sub> in the Electrochemical Catalytic Reduction of CO <sub>2</sub> by (POCOP)IrH <sub>2</sub> . ACS Catalysis, 2016, 6, 6362-6371.  | 11.2 | 33        |
| 12 | Design and reactivity of pentapyridyl metal complexes for ammonia oxidation. Chemical Communications, 2019, 55, 5083-5086.   | 4.1  | 27        |
| 13 | Atomic layer deposition of quantum-confined ZnO nanostructures. Nanotechnology, 2009, 20, 195401.  | 2.6  | 23        |
| 14 | Intramolecular Electrostatic Effects on O <sub>2</sub> , CO <sub>2</sub> , and Acetate Binding to a Cationic Iron Porphyrin. Inorganic Chemistry, 2020, 59, 17402-17414.   | 4.0  | 20        |
| 15 | Activation and Oxidation of Mesitylene C-H Bonds by (Phebox)Iridium(III) Complexes. Organometallics, 2015, 34, 2879-2888.  | 2.3  | 18        |
| 16 | Transition-Metal-Mediated Nucleophilic Aromatic Substitution with Acids. Organometallics, 2016, 35, 2053-2056.   | 2.3  | 17        |
| 17 | Triple hydrogen atom abstraction from Mn-NH <sub>3</sub> complexes results in cyclophosphazene cations. Chemical Communications, 2019, 55, 14058-14061.  | 4.1  | 17        |
| 18 | Ethanol as a Liquid Organic Hydrogen Carrier for Seasonal Microgrid Application: Catalysis, Theory, and Engineering Feasibility. ACS Sustainable Chemistry and Engineering, 2021, 9, 7130-7138.  | 6.7  | 16        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Anion control of tautomeric equilibria: Fe <sup>II</sup> -H vs. Ni <sup>II</sup> -H influenced by NH <sub>3</sub> F hydrogen bonding. <i>Chemical Science</i> , 2019, 10, 1410-1418.                 | 7.4 | 14        |
| 20 | Crystal Phase Evolution in Quantum Confined ZnO Domains on Particles via Atomic Layer Deposition. <i>Crystal Growth and Design</i> , 2009, 9, 2828-2834.   | 3.0 | 12        |
| 21 | Evaluation of attractive interactions in the second coordination sphere of iron complexes containing pendant amines. <i>Dalton Transactions</i> , 2019, 48, 4867-4878.                               | 3.3 | 12        |
| 22 | Multiple Ni <sup>II</sup> -H and Cu <sup>II</sup> -H Hydrogen Atom Abstractions Through Coordination-Induced Bond Weakening at Fe-Amine Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 8242-8251. | 4.0 | 10        |
| 23 | Design of robust 2,2'-bipyridine ligand linkers for the stable immobilization of molecular catalysts on silicon(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9921-9929.     | 2.8 | 6         |
| 24 | Weakening the Ni <sup>II</sup> -H Bonds of NH <sub>3</sub> Ligands: Triple Hydrogen-Atom Abstraction to Form a Chromium(V) Nitride. <i>Inorganic Chemistry</i> , 2022, 61, 11165-11172.              | 4.0 | 6         |
| 25 | Computational Investigations of the Reactivity of Metalloporphyrins for Ammonia Oxidation. <i>Topics in Catalysis</i> , 2022, 65, 341-353.   | 2.8 | 4         |
| 26 | Exploring Detailed Reaction Pathways for Hydrogen Storage with Borohydrides Using DFT Calculations. <i>Energy &amp; Fuels</i> , 2022, 36, 5513-5527.   | 5.1 | 2         |
| 27 | Protonation of Serine in Gas and Condensed and Microsolvated States in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2022, 126, 44-52.  | 2.5 | 0         |