

# Demyan E Prokopchuk

## List of Publications by Year in descending order

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21  
papers

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citations

759233

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713466

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22  
docs citations

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times ranked

753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordination-Induced Weakening of a C(sp <sup>3</sup> )-H Bond: Homolytic and Heterolytic Bond Strength of a CH <sup>δ+</sup> -Ni Agostic Interaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 12632-12637.	13.7	4
2	Ligand Protonation at Carbon, not Nitrogen, during H <sub>2</sub> Production with Amine-Rich Iron Electrocatalysts. <i>Inorganic Chemistry</i> , 2021, 60, 17407-17413.	4.0	6
3	H <sub>2</sub> Binding, Splitting, and Net Hydrogen Atom Transfer at a Paramagnetic Iron Complex. <i>Journal of the American Chemical Society</i> , 2019, 141, 1871-1876.	13.7	25
4	Ligand-centered electrochemical processes enable CO <sub>2</sub> reduction with a nickel bis(triazapentadienyl) complex. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1172-1181.	4.9	7
5	Phosphine-free ruthenium NCN-ligand complexes and their use in catalytic CO <sub>2</sub> hydrogenation. <i>Dalton Transactions</i> , 2019, 48, 16569-16577.	3.3	7
6	Catalytic N <sub>2</sub> Reduction to Silylamines and Thermodynamics of N <sub>2</sub> Binding at Square Planar Fe. <i>Journal of the American Chemical Society</i> , 2017, 139, 9291-9301.	13.7	72
7	Asymmetric Transfer Hydrogenation of Ketones Using New Iron(II) (Pâ€NHâ€Nâ€Pâ€ <sup>2</sup> ) Catalysts: Changing the Steric and Electronic Properties at Phosphorus Pâ€. <i>Israel Journal of Chemistry</i> , 2017, 57, 1204-1215.	2.3	24
8	Exploring the role of pendant amines in transition metal complexes for the reduction of N <sub>2</sub> to hydrazine and ammonia. <i>Coordination Chemistry Reviews</i> , 2017, 334, 67-83.	18.8	39
9	Insights into metal-ligand hydrogen transfer: a square-planar ruthenate complex supported by a tetradentate amino-amido-diolefin ligand. <i>Chemical Communications</i> , 2016, 52, 6138-6141.	4.1	5
10	Details of the Mechanism of the Asymmetric Transfer Hydrogenation of Acetophenone Using the Amine(imine)diphosphine Iron Precatalyst: The Base Effect and The Enantiodetermining Step. <i>ACS Catalysis</i> , 2016, 6, 301-314.	11.2	66
11	Reactivity of an All-ferrous Iron-Nitrogen Heterocubane under Reductive and Oxidative Conditions. <i>Chemistry - A European Journal</i> , 2015, 21, 15797-15805.	3.3	4
12	Alcohol-assisted base-free hydrogenation of acetophenone catalyzed by OsH(NHCMe <sub>2</sub> ) <sub>2</sub> CMe <sub>2</sub> NH <sub>2</sub> (PPh <sub>3</sub> ) <sub>2</sub> . <i>Canadian Journal of Chemistry</i> , 2014, 92, 731-738.	1.1	10
13	Intramolecular C-H/O-H Bond Cleavage with Water and Alcohol Using a Phosphine-free Ruthenium Carbene NCN Pincer Complex. <i>Chemistry - A European Journal</i> , 2014, 20, 16960-16968.	3.3	21
14	Iron Catalysts Containing Amine(imine)diphosphine P-NH-N-P Ligands Catalyze both the Asymmetric Hydrogenation and Asymmetric Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2014, 33, 5791-5801.	2.3	94
15	Structural properties of trans hydrido-hydroxo M(H)(OH)(NH <sub>2</sub> CMe <sub>2</sub> CMe <sub>2</sub> NH <sub>2</sub> )(PPh <sub>3</sub> ) <sub>2</sub> (M = Ru, Os) complexes and their proton exchange behaviour with water in solution. <i>Dalton Transactions</i> , 2013, 42, 10214.	3.3	14
16	Inner-Sphere Activation, Outer-Sphere Catalysis: Theoretical Study on the Mechanism of Transfer Hydrogenation of Ketones Using Iron(II) PNNP Eneamido Complexes. <i>Organometallics</i> , 2012, 31, 7375-7385.	2.3	79
17	Spectroscopic and DFT Study of Ferraaziridine Complexes Formed in the Transfer Hydrogenation of Acetophenone Catalyzed Using <i>trans</i> -[Fe(CO)(NCMe)(PPh <sub>2</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> NCH <sub>2</sub> ] <sub>2</sub> . <i>Organometallics</i> , 2012, 31, 3056-3064.	2.3	46
18	From amine to ruthenaziridine to azaallyl: unusual transformation of di-(2-pyridylmethyl)amine on ruthenium. <i>Dalton Transactions</i> , 2011, 40, 10603.	3.3	6

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19	Synthesis of amino acid conjugates of 1,1- $\text{C}_2$ -dimethylferrocene: New chiral conjugates. <i>Inorganica Chimica Acta</i> , 2008, 361, 1327-1331.	2.4	1
20	Synthesis of palladacycles employing iminoisoindolines as monoanionic bidentate ligands. <i>Dalton Transactions</i> , 2008, , 6023.	3.3	30
21	From Pyrroles to Isoindolines: Synthesis of a $\text{N}^3$ -Diimine Ligand for Applications in Palladium Coordination Chemistry and Catalysis. <i>Organometallics</i> , 2008, 27, 2337-2345.	2.3	37