

Demyan E Prokopchuk

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5435765/publications.pdf>

Version: 2024-02-01

21
papers

604
citations

759233

12
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

753
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Catalytic N ₂ Reduction to Silylamines and Thermodynamics of N ₂ Binding at Square Planar Fe. <i>Journal of the American Chemical Society</i> , 2017, 139, 9291-9301.	13.7	72
4	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
5	Spectroscopic and DFT Study of Ferraaziridine Complexes Formed in the Transfer Hydrogenation of Acetophenone Catalyzed Using <i>trans</i> -[Fe(CO)(NCMe)(PPh ₂) ₂ C ₆ H ₄ CH ₂ NCH ₂] ₂ · <i>trans</i> -[Fe(CO) ₂ (NCMe) ₂] ₂ · <i>trans</i> -[Fe(CO) ₂ (NCMe) ₂] ₂ · <i>trans</i> -[Fe(CO) ₂ (NCMe) ₂] ₂ · <i>trans</i> -[Fe(CO) ₂ (NCMe) ₂] ₂ . <i>Organometallics</i> , 2012, 31, 3056-3064.	2.3	46
6	Exploring the role of pendant amines in transition metal complexes for the reduction of N ₂ to hydrazine and ammonia. <i>Coordination Chemistry Reviews</i> , 2017, 334, 67-83.	18.8	39
7	From Pyrroles to Isoindolines: Synthesis of a λ^3 -Diimine Ligand for Applications in Palladium Coordination Chemistry and Catalysis. <i>Organometallics</i> , 2008, 27, 2337-2345.	2.3	37
8	Synthesis of palladacycles employing iminoisoindolines as monoanionic bidentate ligands. <i>Dalton Transactions</i> , 2008, , 6023.	3.3	30
9	H ₂ 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
10	Asymmetric Transfer Hydrogenation of Ketones Using New Iron(II) (P ⁺ NCNH ⁻ NCN ⁻ P ⁺) Catalysts: Changing the Steric and Electronic Properties at Phosphorus P ⁺ . <i>Israel Journal of Chemistry</i> , 2017, 57, 1204-1215.	2.3	24
11	Intramolecular C ₁ H/O ₁ 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
12	Structural properties of <i>trans</i> hydrido μ -hydroxo M(H)(OH)(NH ₂ CMe ₂ CMe ₂ NH ₂)(PPh ₃) ₂ (M = Ru, Os) complexes and their proton exchange behaviour with water in solution. <i>Dalton Transactions</i> , 2013, 42, 10214.	3.3	14
13	Alcohol-assisted base-free hydrogenation of acetophenone catalyzed by OsH(NHCMe ₂ CMe ₂ NH ₂)(PPh ₃) ₂ . <i>Canadian Journal of Chemistry</i> , 2014, 92, 731-738.	1.1	10
14	Ligand-centered electrochemical processes enable CO ₂ reduction with a nickel bis(triazapentadienyl) complex. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1172-1181.	4.9	7
15	Phosphine-free ruthenium NCN-ligand complexes and their use in catalytic CO ₂ hydrogenation. <i>Dalton Transactions</i> , 2019, 48, 16569-16577.	3.3	7
16	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
17	Ligand Protonation at Carbon, not Nitrogen, during H ₂ Production with Amine-Rich Iron Electrocatalysts. <i>Inorganic Chemistry</i> , 2021, 60, 17407-17413.	4.0	6
18	Insights into metal μ -ligand hydrogen transfer: a square-planar ruthenate complex supported by a tetradentate amino μ -amido-diolefin ligand. <i>Chemical Communications</i> , 2016, 52, 6138-6141.	4.1	5

#	ARTICLE	IF	CITATIONS
19	Reactivity of an All-ferrous Iron-Nitrogen Heterocubane under Reductive and Oxidative Conditions. Chemistry - A European Journal, 2015, 21, 15797-15805.	3.3	4
20	Coordination-Induced Weakening of a C(sp ³)-H Bond: Homolytic and Heterolytic Bond Strength of a CH-Ni Agostic Interaction. Journal of the American Chemical Society, 2022, 144, 12632-12637.	13.7	4
21	Synthesis of amino acid conjugates of 1,1-dimethylferrocene: New chiral conjugates. Inorganica Chimica Acta, 2008, 361, 1327-1331.	2.4	1