

Mary Grellier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3268541/publications.pdf>

Version: 2024-02-01

44
papers

1,485
citations

279798

23
h-index

315739

38
g-index

51
all docs

51
docs citations

51
times ranked

1605
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Impact of the Alkali Metal on the Structural and Dynamic Properties of the Anionic Pentahydride Ruthenium Complexes $[M(THF)_x][RuH_5(PCy_3)_2]$ ($M = Li, Na, K$). <i>Organometallics</i> , 2021, 40, 3024-3032. | 2.3 | 0 |
| 2 | Improved hydrogen storage properties of Mg/MgH ₂ thanks to the addition of nickel hydride complex precursors. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28848-28862. | 7.1 | 36 |
| 3 | Photochemical Oxidative Addition of Germane and Diphenylgermane to Ruthenium Dihydride Complexes. <i>Organometallics</i> , 2019, 38, 626-637. | 2.3 | 8 |
| 4 | Enhancing hydrogen storage properties of the Mg/MgH ₂ system by the addition of bis(tricyclohexylphosphine)nickel(II) dichloride. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11939-11952. | 7.1 | 14 |
| 5 | ortho-Phenyl dialkylphosphonium sulfonate compounds: two rotamers in equilibrium. <i>Dalton Transactions</i> , 2018, 47, 10139-10146. | 3.3 | 1 |
| 6 | Impact of the addition of poly-dihydrogen ruthenium precursor complexes on the hydrogen storage properties of the Mg/MgH ₂ system. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2335-2344. | 4.9 | 11 |
| 7 | Modulation of an Anagostic Interaction in SiPSi-Type Pincer Platinum Complexes. <i>Organometallics</i> , 2018, 37, 3581-3587. | 2.3 | 8 |
| 8 | A family of rhodium and iridium complexes with semirigid benzylsilyl phosphines: from bidentate to tetradentate coordination modes. <i>Dalton Transactions</i> , 2017, 46, 8827-8838. | 3.3 | 18 |
| 9 | Transition-Metal-Free Catalytic Hydrodefluorination of Polyfluoroarenes by Concerted Nucleophilic Aromatic Substitution with a Hydrosilicate. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16191-16196. | 13.8 | 62 |
| 10 | N-Heterocyclic Carbene Iron Silyl Hydride Complexes. <i>Israel Journal of Chemistry</i> , 2017, 57, 1216-1221. | 2.3 | 11 |
| 11 | Transition-Metal-Free Catalytic Hydrodefluorination of Polyfluoroarenes by Concerted Nucleophilic Aromatic Substitution with a Hydrosilicate. <i>Angewandte Chemie</i> , 2017, 129, 16409-16414. | 2.0 | 27 |
| 12 | Direct synthesis of dicarbonyl PCP-iron hydride complexes and catalytic dehydrogenative borylation of styrene. <i>Dalton Transactions</i> , 2016, 45, 11101-11108. | 3.3 | 29 |
| 13 | A Ruthenium Dihydrogen Germylene Complex and the Catalytic Synthesis of Digermoxane. <i>Organometallics</i> , 2015, 34, 4158-4163. | 2.3 | 25 |
| 14 | Iron-Catalyzed C-H Borylation of Arenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 4062-4065. | 13.7 | 166 |
| 15 | Silane Deuteration Catalyzed by Ruthenium Bis(dihydrogen) Complexes or Simple Metal Salts. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 759-764. | 4.3 | 23 |
| 16 | New perspectives in hydrogen storage based on RCH ₂ NH ₂ /RCN couples. <i>Dalton Transactions</i> , 2014, 43, 6283-6286. | 3.3 | 17 |
| 17 | Nature of Si-H Interactions in a Series of Ruthenium Silazane Complexes Using Multinuclear Solid-State NMR and Neutron Diffraction. <i>Inorganic Chemistry</i> , 2014, 53, 1156-1165. | 4.0 | 35 |
| 18 | Step-by-Step Introduction of Silazane Moieties at Ruthenium: Different Extents of Ru-H-Si Bond Activation. <i>Inorganic Chemistry</i> , 2013, 52, 2654-2661. | 4.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Probing Highly Selective H/D Exchange Processes with a Ruthenium Complex through Neutron Diffraction and Multinuclear NMR Studies.. <i>Inorganic Chemistry</i> , 2013, 52, 7329-7337. | 4.0 | 28 |
| 20 | Phosphinodi(benzylsilane) $\text{PhP}\{\langle i \rangle \text{-C}\langle \text{sub} \rangle 6 \langle \text{sub} \rangle \text{H}\langle \text{sub} \rangle 4 \langle \text{sub} \rangle \text{CH}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{SiMe}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{H}\}\langle \text{sub} \rangle 2$: A Versatile σ -P-Si-H π -Pincer-Type Ligand at Ruthenium. <i>Inorganic Chemistry</i> , 2013, 52, 9798-9806. | 4.0 | 24 |
| 21 | Dehydrogenation processes via C-H activation within alkylphosphines. <i>Chemical Communications</i> , 2012, 48, 34-42. | 4.1 | 21 |
| 22 | Ruthenium-Catalyzed Hydrogenation of Nitriles: Insights into the Mechanism. <i>Journal of the American Chemical Society</i> , 2010, 132, 7854-7855. | 13.7 | 161 |
| 23 | Bis η -Bond Dihydrogen and Borane Ruthenium Complexes: Bonding Nature, Catalytic Applications, and Reversible Hydrogen Release. <i>Accounts of Chemical Research</i> , 2009, 42, 1640-1649. | 15.6 | 163 |
| 24 | Versatile Coordination of 2-Pyridinetetramethyldisilazane at Ruthenium: Ru(II) vs Ru(IV) As Evidenced by NMR, X-ray, Neutron, and DFT Studies. <i>Journal of the American Chemical Society</i> , 2009, 131, 7633-7640. | 13.7 | 27 |
| 25 | Motional heterogeneity in single-site silica-supported species revealed by deuterium NMR. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6962. | 2.8 | 27 |
| 26 | Synthesis and Reactivity of Ruthenium Arene Complexes Incorporating Novel $\text{Ph}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{PCH}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{CH}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{BR}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle$ Ligands. Easy Access to the Four-Membered Ruthenacycle $[(\langle i \rangle \text{p}\langle \text{sub} \rangle \text{-cymene})\text{RuCl}(\langle i \rangle \text{C,P}\langle \text{sub} \rangle \text{-CH}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{CH}\langle \text{sub} \rangle 2 \langle \text{sub} \rangle \text{PPh}\langle \text{sub} \rangle 2)]$. <i>Organometallics</i> , 2008, 27, 1140-1146. | 2.3 | 51 |
| 27 | Access to Ruthenium(0) Carbonyl Complexes via Dehydrogenation of a Tricyclopentylphosphine Ligand and Decarbonylation of Alcohols. <i>Organometallics</i> , 2008, 27, 5088-5093. | 2.3 | 31 |
| 28 | Cobalt Organometallics. , 2007, , 1-119. | | 3 |
| 29 | Synthesis, structure and coordination of the ambiphilic ligand (2-picoly)BCy2. <i>Dalton Transactions</i> , 2007, , 2370. | 3.3 | 37 |
| 30 | Agostic Si-H bond coordination assists C-H bond activation at ruthenium in bis(phosphinobenzylsilane) complexes. <i>Chemical Communications</i> , 2007, , 3963. | 4.1 | 34 |
| 31 | Ruthenium Complexes Carrying Hydride, Dihydrogen, and Phosphine Ligands: Reversible Hydrogen Release. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2613-2615. | 13.8 | 43 |
| 32 | Ruthenium Complexes Carrying Hydride, Dihydrogen, and Phosphine Ligands: Reversible Hydrogen Release. <i>Angewandte Chemie</i> , 2007, 119, 2667-2669. | 2.0 | 6 |
| 33 | Synthesis, Neutron Structure, and Reactivity of the Bis(dihydrogen) Complex $\text{RuH}_2(\eta\text{-H}_2)_2(\text{PCyp}_3)_2$ Stabilized by Two Tricyclopentylphosphines. <i>Journal of the American Chemical Society</i> , 2005, 127, 17592-17593. | 13.7 | 113 |
| 34 | Structure and Bonding in a Disilazane Ruthenium Complex. Catalytic Selective Deuteration of Disilazane. <i>Organometallics</i> , 2005, 24, 3824-3826. | 2.3 | 41 |
| 35 | Redistribution at silicon by ruthenium complexes. Bonding mode of the bridging silanes in $\text{Ru}_2\text{H}_4(\eta\text{-H}_2)_2(\eta\text{-H}_2)_2\text{SiH}_4(\text{PCy}_3)_4$ and $\text{Ru}_2\text{H}_2(\eta\text{-H}_2)_2\text{H}_2\text{Si}(\text{OMe})_2)_3(\text{PCy}_3)_2$. <i>Dalton Transactions</i> , 2003, , 4139-4146. | 3.3 | 28 |
| 36 | Pseudotetrahedral Organocobalt(III) Compounds Containing Specific Coordination Sites for Brønsted Acids. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 1539-1547. | 2.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Reactivity of Cyclocobaltated Benzylamine Derivatives toward Terminal Alkynes. <i>Organometallics</i> , 2000, 19, 1935-1939. | 2.3 | 5 |
| 38 | Synthesis of Configurationally Stable, Optically Active Organocobalt Compounds. <i>Organometallics</i> , 1999, 18, 5560-5570. | 2.3 | 21 |
| 39 | Palladium-Induced Intramolecular Pyridine-Allyl Coupling Reactions: Formation of N-Bridgehead Heterocycles with a Stable C-N Bond. <i>European Journal of Inorganic Chemistry</i> , 1998, 1998, 1563-1571. | 2.0 | 6 |
| 40 | Allyl versus aryl C-H activation mediated by palladium acetate. <i>Journal of Organometallic Chemistry</i> , 1997, 548, 301-304. | 1.8 | 8 |
| 41 | Heterocyclization, deprotection and isomerization in an intramolecular palladium-catalysed tertiary amine-allyl coupling reaction. <i>Chemical Communications</i> , 1996, , 2257-2258. | 4.1 | 7 |
| 42 | Pd catalysed intramolecular coupling between tertiary amines and allylic groups; synthesis of 3-hydro-1H-2-benzazepinium salts. <i>Tetrahedron Letters</i> , 1994, 35, 2877-2880. | 1.4 | 29 |
| 43 | Palladium-Mediated Intramolecular C-N Bond Formation between Tertiary Amines and Alkenes. <i>Journal of the American Chemical Society</i> , 1994, 116, 5134-5144. | 13.7 | 41 |
| 44 | On the energetics of binding and hydride exchange in the complex as revealed by inelastic neutron scattering and DFT studies. <i>New Journal of Chemistry</i> , 0, , . | 2.8 | 0 |