

Mary Grellier

List of Publications by Year in descending order

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44
papers

1,485
citations

279798

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315739

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51
all docs

51
docs citations

51
times ranked

1605
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron-Catalyzed C-H Borylation of Arenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 4062-4065.	13.7	166
2	Bis σ -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
3	Ruthenium-Catalyzed Hydrogenation of Nitriles: Insights into the Mechanism. <i>Journal of the American Chemical Society</i> , 2010, 132, 7854-7855.	13.7	161
4	Synthesis, Neutron Structure, and Reactivity of the Bis(dihydrogen) Complex $\text{RuH}_2(\eta\text{-}2\text{-H}_2)_2(\text{PCyp}_3)_2$ Stabilized by Two Tricyclopentylphosphines. <i>Journal of the American Chemical Society</i> , 2005, 127, 17592-17593.	13.7	113
5	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
6	Synthesis and Reactivity of Ruthenium Arene Complexes Incorporating Novel $\text{Ph}_2\text{PCH}_2\text{BR}_2$ Ligands. Easy Access to the Four-Membered Ruthenacycle $[(\text{p-cymene})\text{RuCl}(\eta\text{-}5\text{-C}_5\text{P-CH}_2\text{CH}_2\text{PPh}_2)]$. <i>Organometallics</i> , 2008, 27, 1140-1146.	2.3	51
7	Ruthenium Complexes Carrying Hydride, Dihydrogen, and Phosphine Ligands: Reversible Hydrogen Release. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2613-2615.	13.8	43
8	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
9	Structure and Bonding in a Disilazane Ruthenium Complex. Catalytic Selective Deuteration of Disilazane. <i>Organometallics</i> , 2005, 24, 3824-3826.	2.3	41
10	Synthesis, structure and coordination of the ambiphilic ligand (2-picoyl)BCy ₂ . <i>Dalton Transactions</i> , 2007, , 2370.	3.3	37
11	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
12	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
13	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
14	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
15	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
16	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
17	Redistribution at silicon by ruthenium complexes. Bonding mode of the bridging silanes in $\text{Ru}_2\text{H}_4(\eta\text{-}4\text{-}2\text{-}2\text{-}2\text{-}2\text{-SiH}_4)(\text{PCy}_3)_4$ and $\text{Ru}_2\text{H}_2(\eta\text{-}4\text{-}2\text{-}2\text{-}2\text{-H}_2\text{Si}(\text{OMe})_2)_3(\text{PCy}_3)_2$. <i>Dalton Transactions</i> , 2003, , 4139-4146.	3.3	28
18	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

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19	Versatile Coordination of 2-Pyridinetetramethylsilazane 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
20	Motional heterogeneity in single-site silica-supported species revealed by deuterium NMR. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6962.	2.8	27
21	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
22	A Ruthenium Dihydrogen Germylene Complex and the Catalytic Synthesis of Digerinoxane. <i>Organometallics</i> , 2015, 34, 4158-4163.	2.3	25
23	Phosphinodi(benzylsilane) $\text{PhP}\{\text{C}(\text{H})_6\text{CH}_2\}_2\text{SiMe}_2\text{H}_2$: A Versatile $\text{P}(\text{Si}(\text{H})_2)_2$ -Pincer-Type Ligand at Ruthenium. <i>Inorganic Chemistry</i> , 2013, 52, 9798-9806.	4.0	24
24	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
25	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
26	Synthesis of Configurationally Stable, Optically Active Organocobalt Compounds. <i>Organometallics</i> , 1999, 18, 5560-5570.	2.3	21
27	Dehydrogenation processes via C-H activation within alkylphosphines. <i>Chemical Communications</i> , 2012, 48, 34-42.	4.1	21
28	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
29	New perspectives in hydrogen storage based on $\text{RCH}_2\text{NH}_2/\text{RCN}$ couples. <i>Dalton Transactions</i> , 2014, 43, 6283-6286.	3.3	17
30	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
31	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
32	N-Heterocyclic Carbene Iron Silyl Hydride Complexes. <i>Israel Journal of Chemistry</i> , 2017, 57, 1216-1221.	2.3	11
33	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
34	Allyl versus aryl C-H activation mediated by palladium acetate. <i>Journal of Organometallic Chemistry</i> , 1997, 548, 301-304.	1.8	8
35	Modulation of an Anagostic Interaction in SiPSi-Type Pincer Platinum Complexes. <i>Organometallics</i> , 2018, 37, 3581-3587.	2.3	8
36	Photochemical Oxidative Addition of Germane and Diphenylgermane to Ruthenium Dihydride Complexes. <i>Organometallics</i> , 2019, 38, 626-637.	2.3	8

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37	Heterocyclization, deprotection and isomerization in an intramolecular palladium-catalysed tertiary amine-allyl coupling reaction. <i>Chemical Communications</i> , 1996, , 2257-2258.	4.1	7
38	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
39	Ruthenium Complexes Carrying Hydride, Dihydrogen, and Phosphine Ligands: Reversible Hydrogen Release. <i>Angewandte Chemie</i> , 2007, 119, 2667-2669.	2.0	6
40	Reactivity of Cyclocobaltated Benzylamine Derivatives toward Terminal Alkynes. <i>Organometallics</i> , 2000, 19, 1935-1939.	2.3	5
41	Cobalt <i>Organometallics</i> , 2007, , 1-119.		3
42	ortho-Phenyl dialkylphosphonium sulfonate compounds: two rotamers in equilibrium. <i>Dalton Transactions</i> , 2018, 47, 10139-10146.	3.3	1
43	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
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