

Mechanisms of metal-catalyzed dehydrocoupling reactions

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Œf-Bond Metathesis: A 30-Year Retrospective. <i>Organometallics</i> , 2013, 32, 7249-7263.	1.1	243
3	Œf-Silane, Disilanyl, and [W(Œ¼-H)Si(Œ¼-H)W] Bridging Silylene Complexes <i>via</i> the Reactions of W(PMe₃)₄(Œ²-CH₂PMe₂)₂H with Phenylsilanes. <i>Journal of the American Chemical Society</i> , 2014, 136, 17934-17937.	6.6	12
4	A Novel Trisamidophosphine Ligand and Its Group(IV) Metal Complexes. <i>Organometallics</i> , 2014, 33, 612-615.	1.1	21
5	Reactivity of Coordinatively Unsaturated Bis(N-heterocyclic carbene) Pt(II) Complexes toward H₂. Crystal Structure of a 14-Electron Pt(II) Hydride Complex. <i>Inorganic Chemistry</i> , 2014, 53, 4257-4268.	1.9	25
6	Mechanistic Studies of the Dehydrocoupling and Dehydropolymerization of Amineâ€“Boranes Using a [Rh(Xantphos)]⁺ Catalyst. <i>Journal of the American Chemical Society</i> , 2014, 136, 9078-9093.	6.6	134
7	Dehydrocoupling of amine boranes via tin(IV) and tin(II) catalysts. <i>Journal of Organometallic Chemistry</i> , 2014, 751, 541-545.	0.8	21
8	Terminal Phosphanido Rhodium Complexes Mediating Catalytic PiŒP and PiŒC Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 472-475.	7.2	39
9	Selective Dehydrocoupling of Phosphines by Lithium Chloride Carbenoids. <i>Journal of the American Chemical Society</i> , 2014, 136, 15517-15520.	6.6	54
10	Catalytic metal-free Siâ€“N cross-dehydrocoupling. <i>Chemical Communications</i> , 2014, 50, 2318-2320.	2.2	113
11	Effect of the Phosphine Steric and Electronic Profile on the Rh-Promoted Dehydrocoupling of Phosphineâ€“Boranes. <i>Inorganic Chemistry</i> , 2014, 53, 3716-3729.	1.9	38
12	Geometrically Enforced Donor-Facilitated Dehydrocoupling Leading to an Isolable Arsanylidine-Phosphorane. <i>Journal of the American Chemical Society</i> , 2014, 136, 6247-6250.	6.6	41
13	A Tripodal Benzylene-Linked Trisamidophosphine Ligand Scaffold: Synthesis and Coordination Chemistry with Group(IV) Metals. <i>Inorganic Chemistry</i> , 2014, 53, 4144-4153.	1.9	15
14	Iron-Catalyzed Dehydrocoupling/Dehydrogenation of Amineâ€“Boranes. <i>Journal of the American Chemical Society</i> , 2014, 136, 3048-3064.	6.6	106
15	DFT studies of dehydrogenation of ammoniaâ€“borane catalyzed by [Ir(tBuâ€“2)]+: A proton transfer mechanism. <i>Computational and Theoretical Chemistry</i> , 2014, 1048, 1-6.	1.1	9
16	Exploration of tin-catalyzed phosphine dehydrocoupling: Catalyst effects and observation of tin-catalyzed hydrophosphination. <i>Inorganica Chimica Acta</i> , 2014, 422, 141-145.	1.2	30
17	Metal-free transfer hydrogenation of olefins via dehydrocoupling catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10917-10921.	3.3	134
18	Siâ€“H and Siâ€“C Bond Cleavage Reactions of Silane and Phenylsilanes with Mo(PMe₃)₆: Silyl, Hypervalent Silyl, Silane, and Disilane Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 8177-8180.	6.6	22
19	Osmium-Promoted Dehydrogenation of Amineâ€“Boranes and Bâ€“H Bond Activation of the Resulting Aminoâ€“Boranes. <i>Organometallics</i> , 2014, 33, 1104-1107.	1.1	30

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20	B-Methylated Amine-Boranes: Substituent Redistribution, Catalytic Dehydrogenation, and Facile Metal-Free Hydrogen Transfer Reactions. <i>Inorganic Chemistry</i> , 2015, 54, 10878-10889.	1.9	24
21	Facile, Catalytic Dehydrocoupling of Phosphines Using η^2 -Diketiminato Iron(II) Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 15960-15963.	1.7	49
22	The Catalytic Dehydrocoupling of Amine-Boranes and Phosphine-Boranes. <i>Topics in Organometallic Chemistry</i> , 2015, , 153-220.	0.7	122
23	Aryldihydroborane Coordination to Iridium and Osmium Hydrido Complexes. <i>Organometallics</i> , 2015, 34, 5709-5715.	1.1	18
25	Boryl-Dihydroborate Osmium Complexes: Preparation, Structure, and Dynamic Behavior in Solution. <i>Organometallics</i> , 2015, 34, 941-946.	1.1	15
26	Osmium(II)-Bis(dihydrogen) Complexes Containing σ -aryl, σ -NHC Chelate Ligands: Preparation, Bonding Situation, and Acidity. <i>Organometallics</i> , 2015, 34, 778-789.	1.1	34
27	Palladium-catalyzed dehydrogenative coupling of terminal alkynes with secondary phosphine oxides. <i>Chemical Communications</i> , 2015, 51, 3549-3551.	2.2	43
28	An Acyl-NHC Osmium Cooperative System: Coordination of Small Molecules and Heterolytic B-H and O-H Bond Activation. <i>Organometallics</i> , 2015, 34, 3902-3908.	1.1	50
29	Cobalt-catalyzed ammonia borane dehydrocoupling and transfer hydrogenation under aerobic conditions. <i>Dalton Transactions</i> , 2015, 44, 12074-12077.	1.6	51
30	Mechanistic Studies on the Palladium-Catalyzed Cross Dehydrogenative Coupling of P(O)-H Compounds with Terminal Alkynes: Stereochemistry and Reactive Intermediates. <i>Organometallics</i> , 2015, 34, 5095-5098.	1.1	34
31	Oxidative addition of SiH_4 and GeH_4 to $\text{Ir}(\text{PPh}_3)_3(\text{CO})\text{Cl}$: structural and spectroscopic evidence for the formation of products derived from cis oxidative addition. <i>Dalton Transactions</i> , 2015, 44, 2801-2808.	1.6	2
32	Ammonia-Borane Dehydrogenation Promoted by an Osmium Dihydride Complex: Kinetics and Mechanism. <i>ACS Catalysis</i> , 2015, 5, 187-191.	5.5	61
33	Catalysis by Aluminum(III) Complexes of Non-Innocent Ligands. <i>Chemistry - A European Journal</i> , 2015, 21, 2734-2742.	1.7	96
34	Alkaline-Earth-Catalysed Cross-Dehydrocoupling of Amines and Hydrosilanes: Reactivity Trends, Scope and Mechanism. <i>Chemistry - A European Journal</i> , 2016, 22, 4564-4583.	1.7	49
35	Ammonia Borane Dehydrogenation Promoted by a Pincer-Square-Planar Rhodium(I) Monohydride: A Stepwise Hydrogen Transfer from the Substrate to the Catalyst. <i>Inorganic Chemistry</i> , 2016, 55, 7176-7181.	1.9	53
36	Characterization of B-H agostic compounds involved in the dehydrogenation of amine-boranes by group 4 metallocenes. <i>Journal of Molecular Modeling</i> , 2016, 22, 294.	0.8	1
37	The Synthesis, Characterization and Dehydrogenation of Sigma-Complexes of BN-Cyclohexanes. <i>Chemistry - A European Journal</i> , 2016, 22, 310-322.	1.7	22
38	Homoleptic Divalent Dialkyl Lanthanide-Catalyzed Cross-Dehydrocoupling of Silanes and Amines. <i>Organometallics</i> , 2016, 35, 1674-1683.	1.1	48

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39	Efficient Pd-Catalyzed Dehydrogenative Coupling of P(O)H with RSH: A Precise Construction of P(O)â€“S Bonds. <i>Journal of the American Chemical Society</i> , 2016, 138, 5825-5828.	6.6	130
40	Generation of Hydrogen from Water: A Pd-Catalyzed Reduction of Water Using Diboron Reagent at Ambient Conditions. <i>Organic Letters</i> , 2016, 18, 5062-5065.	2.4	77
41	Efficient nickel-catalyzed phosphinylation of Câ€“S bonds forming Câ€“P bonds. <i>Chemical Communications</i> , 2016, 52, 12233-12236.	2.2	74
42	Catalytic dehydrocoupling of amines and boranes by an incipient tin(<i>sc</i>) hydride. <i>Chemical Communications</i> , 2016, 52, 13656-13659.	2.2	32
43	Ammonia-borane dehydrogenation catalyzed by Iron pincer complexes: A concerted metal-ligand cooperation mechanism. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17208-17215.	3.8	16
44	Stable BH ₃ adducts to rhodium amide bonds. <i>Journal of Organometallic Chemistry</i> , 2016, 821, 154-162.	0.8	7
45	Iron-catalyzed clean dehydrogenative coupling of alcohols with P(O)â€“H compounds: a new protocol for ROH phosphorylation. <i>Dalton Transactions</i> , 2016, 45, 14893-14897.	1.6	45
46	Calcium, Strontium and Barium Homogeneous Catalysts for Fine Chemicals Synthesis. <i>Chemical Record</i> , 2016, 16, 2482-2505.	2.9	71
47	Polyhydrides of Platinum Group Metals: Nonclassical Interactions and Îƒ-Bond Activation Reactions. <i>Chemical Reviews</i> , 2016, 116, 8770-8847.	23.0	102
48	Use of crown ethers to isolate intermediates in ammonia-borane dehydrocoupling reactions. <i>Chemical Communications</i> , 2016, 52, 3650-3652.	2.2	11
49	Variable coordination modes and catalytic dehydrogenation of B-phenyl amineâ€“boranes. <i>Dalton Transactions</i> , 2016, 45, 6183-6195.	1.6	15
50	Catalytic Bâ€“N Dehydrogenation Using Frustrated Lewis Pairs: Evidence for a Chain-Growth Coupling Mechanism. <i>Journal of the American Chemical Society</i> , 2016, 138, 3306-3309.	6.6	82
51	Nucleophilicity and Pâ€“C Bond Formation Reactions of a Terminal Phosphanido Iridium Complex. <i>Inorganic Chemistry</i> , 2016, 55, 828-839.	1.9	9
52	Unprecedented Borane, Diborane(3), Diborene, and Borylene Ligands via Pt-Mediated Borane Dehydrogenation. <i>Journal of the American Chemical Society</i> , 2016, 138, 76-79.	6.6	59
53	Dehydrocoupling routes to elementâ€“element bonds catalysed by main group compounds. <i>Chemical Society Reviews</i> , 2016, 45, 775-788.	18.7	109
54	Spontaneous dehydrocoupling in peri-substituted phosphineâ€“borane adducts. <i>Dalton Transactions</i> , 2016, 45, 1976-1986.	1.6	5
55	Dehydrogenative coupling involving P(O)â€“H bonds: a powerful way for the preparation of phosphoryl compounds. <i>Dalton Transactions</i> , 2016, 45, 1843-1849.	1.6	71
56	Group 14 inorganic hydrocarbon analogues. <i>Chemical Society Reviews</i> , 2016, 45, 989-1003.	18.7	109

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57	Cs ₂ CO ₃ -Catalyzed Aerobic Oxidative Cross-Dehydrogenative Coupling of Thiols with Phosphonates and Arenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2487-2491.	7.2	145
58	Oxidative formation of phosphinyl radicals from a trigonal pyramidal terminal phosphide Rh(<i>scpd</i>) complex, with an unusually long Rh-P bond. <i>Dalton Transactions</i> , 2017, 46, 3443-3448.	1.6	15
59	Cs ₂ CO ₃ -Catalyzed Aerobic Oxidative Cross-Dehydrogenative Coupling of Thiols with Phosphonates and Arenes. <i>Angewandte Chemie</i> , 2017, 129, 2527-2531.	1.6	32
60	Formation of high-molecular weight polyaminoborane by Fe hydride catalysed dehydrocoupling of methylamine borane. <i>Dalton Transactions</i> , 2017, 46, 6843-6847.	1.6	52
61	Synthesis of a Fragment of Crystalline Silicon: Poly(Cyclosilane). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 568-572.	7.2	39
62	Insights on the Reactivity of Terminal Phosphanido Metal Complexes toward Activated Alkynes from Theoretical Computations. <i>Inorganic Chemistry</i> , 2017, 56, 6652-6661.	1.9	2
63	Phosphine- and Amine-Borane Dehydrocoupling Using a Three-Coordinate Iron(II) η^2 -Diketimate Precatalyst. <i>Organometallics</i> , 2017, 36, 2262-2268.	1.1	59
64	Hydrogen-bridge Si($\frac{1}{4}$ -H) ₃ CeH and inserted H ₃ SiCeH molecules: Matrix infrared spectra and DFT calculations for reaction products of silane with Ce atoms. <i>Journal of Molecular Structure</i> , 2017, 1146, 692-702.	1.8	6
65	Addition of a Cyclophosphine to Nitriles: An Inorganic Click Reaction Featuring Protio, Organo, and Main-Group Catalysis. <i>Angewandte Chemie</i> , 2017, 129, 9664-9668.	1.6	13
66	Addition of a Cyclophosphine to Nitriles: An Inorganic Click Reaction Featuring Protio, Organo, and Main-Group Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9536-9540.	7.2	39
67	Elongated η^f -Borane versus η^f -Borane in Pincer-POP-Osmium Complexes. <i>Organometallics</i> , 2017, 36, 2298-2307.	1.1	36
68	Antimony-ligated dysprosium single-molecule magnets as catalysts for stibine dehydrocoupling. <i>Chemical Science</i> , 2017, 8, 2073-2080.	3.7	77
69	Synthesis of a Fragment of Crystalline Silicon: Poly(Cyclosilane). <i>Angewandte Chemie</i> , 2017, 129, 583-587.	1.6	7
70	Facile Access to Unprecedented Electron-Precise Monohydrodiboranes(4), <i>cis</i> - $\eta^1,2$ -Dihydrodiboranes(4), and a 1,1-Dihydrodiborane(5). <i>Chemistry - A European Journal</i> , 2017, 23, 172179-2184.	1.7	20
71	Copper(i)-catalysed transfer hydrogenations with ammonia borane. <i>Chemical Communications</i> , 2017, 53, 732-735.	2.2	68
72	Non-Metal-Catalyzed Heterodehydrocoupling of Phosphines and Hydrosilanes: Mechanistic Studies of B(C ₆ F ₅) ₃ -Mediated Formation of P-Si Bonds. <i>Journal of the American Chemical Society</i> , 2017, 139, 16780-16790.	6.6	30
73	H/D scrambling in a chromium-catalyzed dehydrocoupling reaction of a borane-dimethylamine adduct. <i>Dalton Transactions</i> , 2017, 46, 11950-11955.	1.6	3
74	Rhodium-Catalyzed Isomerization of a Bis(secondary phosphine) to an Unsymmetrical Diphosphine via P-C Cleavage and P-P and C-H Bond Formation. <i>Organometallics</i> , 2017, 36, 3387-3397.	1.1	16

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75	Iron Catalyzed Dehydrocoupling of Amine and Phosphine Boranes. <i>Israel Journal of Chemistry</i> , 2017, 57, 1070-1081.	1.0	19
76	Step-growth titanium-catalysed dehydropolymerisation of amine boranes. <i>Chemical Science</i> , 2018, 9, 3360-3366.	3.7	42
77	Directional Building Blocks Determine Linear and Cyclic Silicon Architectures. <i>Journal of the American Chemical Society</i> , 2018, 140, 5976-5986.	6.6	28
78	Hydrophosphorylation of Alkynes Catalyzed by Palladium: Generality and Mechanism. <i>Journal of the American Chemical Society</i> , 2018, 140, 3139-3155.	6.6	107
79	Mechanistic insights into tandem amine-borane dehydrogenation and alkene hydrogenation catalyzed by [Pd(NHC)(PCy ₃)]. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2043-2049.	3.8	3
80	Iron Precatalysts with Bulky Tri(tert-butyl)cyclopentadienyl Ligands for the Dehydrocoupling of Dimethylamine Borane. <i>Chemistry - A European Journal</i> , 2018, 24, 14127-14136.	1.7	6
81	Evidence for a Bis(Elongated <i>tf</i>)-Dihydrideborate Coordinated to Osmium. <i>Inorganic Chemistry</i> , 2018, 57, 4482-4491.	1.9	33
82	Metallocene influence on poly(cyclosilane) structure and properties. <i>Polymer Chemistry</i> , 2018, 9, 1938-1941.	1.9	17
83	Unique Reactivity of Dihydrosilanes under Catalysis by Supported Gold Nanoparticles: <i>cis</i> -1,2-Dehydrogenative Disilylation of Alkynes. <i>ChemCatChem</i> , 2018, 10, 980-983.	1.8	16
84	Phosphine-free cobalt pincer complex catalyzed <i>Z</i> -selective semi-hydrogenation of unbiased alkynes. <i>Catalysis Science and Technology</i> , 2018, 8, 428-433.	2.1	48
85	Syntheses, Structures and Reactivity of Terminal Phosphido Complexes of Iron(II) Supported by a <i>tf</i> -Diketiminato Ligand. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4298-4308.	1.0	17
86	Copper-Catalyzed and Air-Mediated Mild Cross-Dehydrogenative Coupling of Aryl Thioureas and Dialkyl <i>H</i> -Phosphonates: The Synthesis of Thiophosphonates. <i>Journal of Organic Chemistry</i> , 2018, 83, 13530-13535.	1.7	23
87	Hydrosilane Synthesis by Catalytic Hydrogenolysis of Chlorosilanes and Silyl Triflates. <i>Inorganic Chemistry</i> , 2018, 57, 13822-13828.	1.9	24
88	Dehydrocoupling of dimethylamine borane by titanocene: elucidation of ten years of inconsistency between theoretical and experimental descriptions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15687-15695.	1.3	5
89	Alcohol-based Michaelis-Arbuzov reaction: an efficient and environmentally-benign method for C-P(O) bond formation. <i>Green Chemistry</i> , 2018, 20, 3408-3413.	4.6	47
90	An Inorganic Chemistry Laboratory Course as Research. <i>Journal of Chemical Education</i> , 2018, 95, 1520-1525.	1.1	36
91	Reactivity of P-H Group of Phosphines. , 2018, , 19-144.		5
92	Triamidoamine-Supported Zirconium Compounds in Main Group Bond-Formation Catalysis. <i>Accounts of Chemical Research</i> , 2019, 52, 2361-2369.	7.6	14

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93	Steric Effects Dictate the Formation of Terminal Arylborylene Complexes of Ruthenium from Dihydroboranes. <i>Chemistry - A European Journal</i> , 2019, 25, 13566-13571.	1.7	14
94	Rhodium Complexes in P-H Bond Activation Reactions. <i>Chemistry - A European Journal</i> , 2019, 25, 15915-15928.	1.7	13
95	Lanthanum-Catalyzed Regioselective Anti-Markovnikov Hydrophosphinylation of Styrenes. <i>Organometallics</i> , 2019, 38, 4261-4270.	1.1	17
97	Synthesis of rutaecarpine alkaloids <i>via</i> an electrochemical cross dehydrogenation coupling reaction. <i>Green Chemistry</i> , 2019, 21, 5517-5520.	4.6	53
98	Ferrocene-Containing Polycarbosilazanes via the Alkaline-Earth-Catalyzed Dehydrocoupling of Silanes and Amines. <i>Organometallics</i> , 2019, 38, 3629-3648.	1.1	26
99	Electrochemical Dehydrogenative Coupling of Alcohols with Hydrogen Phosphoryl Compounds: A Green Protocol for P-O Bond Formation. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1761-1765.	2.1	51
100	Water determines the products: an unexpected Brønsted acid-catalyzed P-O-R cleavage of P(OR) ₃ esters selectively producing P(O)H and P(O)R compounds. <i>Green Chemistry</i> , 2019, 21, 2916-2922.	4.6	18
101	Efficient and practical synthesis of unsymmetrical disulfides <i>via</i> base-catalyzed aerobic oxidative dehydrogenative coupling of thiols. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2220-2225.	2.3	66
102	Reactivity of $TiMe_2$ [$TiMe_2$] $TiMe_2$ towards secondary amines and terminal alkynes: Catalytic dehydrocoupling with hydrosilanes. <i>Inorganica Chimica Acta</i> , 2019, 494, 271-279.	1.2	5
103	Conjugated Polymers Inspired by Crystalline Silicon. <i>Chemistry of Materials</i> , 2019, 31, 2202-2211.	3.2	44
104	Trivalent Titanocene Alkyls and Hydrides as Well-Defined, Highly Active, and Broad Scope Precatalysts for Dehydropolymerization of Amine-Boranes. <i>Journal of the American Chemical Society</i> , 2019, 141, 20009-20015.	6.6	34
105	The role of neutral Rh(PONOP)H, free NMe ₂ H, boronium and ammonium salts in the dehydrocoupling of dimethylamine-borane using the cationic pincer [Rh(PONOP)(i-2-H ₂)] ⁺ catalyst. <i>Dalton Transactions</i> , 2019, 48, 14724-14736.	1.6	27
106	From structure to novel reactivity in frustrated Lewis pairs. <i>Coordination Chemistry Reviews</i> , 2019, 380, 170-183.	9.5	73
107	Mechanisms in Frustrated Lewis Pair-Catalyzed Reactions. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 283-294.	1.2	57
108	Practical Synthesis of Phosphinic Amides/Phosphoramidates through Catalytic Oxidative Coupling of Amines and P(O)H Compounds. <i>Chemistry - A European Journal</i> , 2020, 26, 881-887.	1.7	32
109	Half-sandwich ruthenium(ii) complexes with tethered arene-phosphinite ligands: synthesis, structure and application in catalytic cross dehydrogenative coupling reactions of silanes and alcohols. <i>Dalton Transactions</i> , 2020, 49, 210-222.	1.6	16
111	Molecular Hydrogen-Induced Carbon Chain Rearrangement in Cyclopentadienyl-Tethered Titanium(III) Permethyltitanocene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 128-136.	1.0	2
112	A thermolytic route to a polysilyne. <i>Chemical Communications</i> , 2020, 56, 14063-14066.	2.2	6

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113	Homoleptic mono-, di-, and tetra-iron complexes featuring phosphido ligands: a synthetic, structural, and spectroscopic study. Dalton Transactions, 2020, 49, 10091-10103.	1.6	3
114	Cross-Dehydrogenative Alkynylation: A Powerful Tool for the Synthesis of Internal Alkynes. ChemSusChem, 2020, 13, 4776-4794.	3.6	28
115	Disulfide Promoted C-P Bond Cleavage of Phosphoramidate Surrogates to Synthesize Phosphonates and Phosphinates. Advanced Synthesis and Catalysis, 2020, 362, 4755-4760.	2.1	4
116	Syntheses of Dianionic λ^2 -Iminopyridine Rare-Earth Metal Complexes and Their Catalytic Activities toward Dehydrogenative Coupling of Amines with Hydrosilanes. Inorganic Chemistry, 2020, 59, 9683-9692.	1.9	11
117	Photoactivated silicon-oxygen and silicon-nitrogen heterodehydrocoupling with a commercially available iron compound. Dalton Transactions, 2020, 49, 2972-2978.	1.6	15
118	Dehydrocoupling - an alternative approach to functionalizing germanium nanoparticle surfaces. Nanoscale, 2020, 12, 6271-6278.	2.8	2
119	Reactions of organoplatinum complexes with dimethylamine-borane. New Journal of Chemistry, 2021, 45, 14965-14972.	1.4	1
120	Silicon-Nitrogen Bond Formation via Heterodehydrocoupling and Catalytic N-Silylation. Chemistry - A European Journal, 2021, 27, 3251-3261.	1.7	19
121	Effect of polycyclosilane microstructure on thermal properties. Polymer Chemistry, 2021, 12, 4785-4794.	1.9	9
122	Synthesis of a carborane-substituted bis(phosphanido) cobaltate, ligand substitution, and unusual P_4 fragmentation. Chemical Science, 2021, 12, 11225-11235.	3.7	10
123	Chapter 9. Chemistry of Transition Metal Complexes with Group 13 Elements: Transition Metal Complexes with Lewis Acidic Ligands. Coordination Chemistry Fundamentals, 2021, , 136-175.	0.0	0
124	Comparative DFT Study on Dehydrogenative C(sp)-H Elementation (E = Si, Ge, and Sn) of Terminal Alkynes Catalyzed by a Cationic Ruthenium(II) Thiolate Complex. Inorganic Chemistry, 2021, 60, 6228-6238.	1.9	4
125	Metal-Free Bond Activation by Carboranyl Diphosphines. Journal of the American Chemical Society, 2021, 143, 10842-10846.	6.6	12
126	Molecular Main Group Metal Hydrides. Chemical Reviews, 2021, 121, 12784-12965.	23.0	147
127	Magnescenophane-Catalyzed Amine Borane Dehydrocoupling. Chemistry - A European Journal, 2020, 26, 6176-6184.	1.7	17
128	Copper-catalyzed oxidative dehydrogenative coupling of carboxylic acids with H-phosphonates: an efficient and practical approach to acyl phosphate esters. Organic Chemistry Frontiers, 2017, 4, 1777-1780.	2.3	19
129	Stereoselective synthesis of <i>trans</i> -aziridines via intramolecular oxidative C(sp ³)-H amination of β -amino ketones. Organic Chemistry Frontiers, 2020, 7, 780-786.	2.3	15
130	Synthesis of Bidentate η^2 -Borane-Ruthenium Complexes [Cp*Ru(P(<i>i</i>)-Pr) ₃](η^2 -BH ₃ L) ⁺ (L =) Tj ETQqđ. 0.784314 rgBT		

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133	Organosilicon and Related Group 14 Polymers. , 2021, , .		1
134	Nickel-catalyzed synthesis of Zn(i)–Zn(i) bonded compounds. <i>Chemical Communications</i> , 2021, 57, 13696-13699.	2.2	6
135	Organo-phosphanide and -phosphinidene complexes of Groups 8–11. <i>Advances in Organometallic Chemistry</i> , 2022, , 243-330.	0.5	3
136	Calix[4]pyrrolato Aluminate Catalyzes the Dehydrocoupling of Phenylphosphine Borane to High Molar Weight Polymers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
137	Cationic Cobalt–Thiolate Complexes for the Dehydrogenative Coupling of Bu_3SnH . <i>Organometallics</i> , 2022, 41, 852-857.	1.1	1
138	Calix[4]pyrrolato Aluminate Catalyzes the Dehydrocoupling of Phenylphosphine Borane to High Molar Weight Polymers. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
139	Catalytic silylation of O–nucleophiles via Si–H or Si–C bond cleavage: A route to silyl ethers, silanols and siloxanes. <i>Coordination Chemistry Reviews</i> , 2022, 459, 214456.	9.5	29
140	Inorganometallics (Transition Metal–Metalloid Complexes) and Catalysis. <i>Chemical Reviews</i> , 2022, 122, 3996-4090.	23.0	36
141	Direct phosphorylation of benzylic C–H bonds under transition metal-free conditions forming $\text{sp}^3\text{C}=\text{P}$ bonds. <i>RSC Advances</i> , 2022, 12, 18441-18444.	1.7	1
142	Activation of Si–H and B–H bonds by Lewis acidic transition metals and p-block elements: same, but different. <i>Chemical Science</i> , 2022, 13, 7392-7418.	3.7	15
143	N -Silylamines in catalysis: synthesis and reactivity. <i>Chemical Communications</i> , 2022, 58, 9174-9189.	2.2	16
144	From Stoichiometric to Catalytic C–H Functionalization by Non-Metallocene Zirconium Complexes—Recent Advances and Mechanistic Insights. <i>ACS Catalysis</i> , 2022, 12, 14934-14953.	5.5	3
145	Recent advances in catalytic pnictogen bond forming reactions via dehydrocoupling and hydrofunctionalization. <i>Chemical Communications</i> , 2023, 59, 1258-1273.	2.2	6
146	Germanium hydrides as an efficient hydrogen-storage material operated by an iron catalyst. <i>Chemical Science</i> , 2023, 14, 1065-1071.	3.7	4
147	Cleavage of the Au–P Bond in Au -Substituted Phosphines. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2023, 649, .	0.6	0
148	Carboxylic–Phosphoric Anhydrides as Direct Electrophiles for Decarbonylative Hirao Cross–Coupling of Carboxylic Acids: DFT Investigation of Mechanistic Pathway. <i>Chemistry - An Asian Journal</i> , 2023, 18, .	1.7	2
149	Hydrosilylation and Silane Polymerization Catalyzed by Group 4 Amidometallocene Cations. <i>Organometallics</i> , 2023, 42, 1166-1178.	1.1	2
150	Advances in the Synthesis of Pre-ceramic Polymers for the Formation of Silicon-Based and Ultrahigh-Temperature Non-Oxide Ceramics. <i>Chemical Reviews</i> , 2023, 123, 4188-4236.	23.0	13

#	ARTICLE	IF	CITATIONS
152	Germanium photopatterning <i>via</i> poly(cyclogermapentene)s. Chemical Communications, 2023, 59, 6849-6852.	2.2	0