

# Carbon-<sup>13</sup>C carbon bond cleavage and rearrangement of hydride

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Modulation of Benzene or Naphthalene Binding to Palladium Cluster Sites by the Backside Ligand Effect. <i>Angewandte Chemie</i> , 2015, 127, 2512-2516.	2.0	7
3	From <i>para</i> -Benziporphyrin to Rhodium(III) 21-Carbaporphyrins: Imprinting Rh <sup>2+</sup> , Rh <sup>3+</sup> , and Rh <sup>2+</sup> Coordination Motifs. <i>Chemistry - A European Journal</i> , 2015, 21, 12481-12487.	1.4	15
5	Modulation of Benzene or Naphthalene Binding to Palladium Cluster Sites by the Backside Ligand Effect. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2482-2486.	13.8	27
7	Neutral binuclear rare-earth metal complexes with four $\frac{1}{4}$ -bridging hydrides. <i>Chemical Communications</i> , 2015, 51, 5063-5065.	4.1	19
8	Half-Sandwich Rare-Earth-Catalyzed Olefin Polymerization, Carbometalation, and Hydroarylation. <i>Accounts of Chemical Research</i> , 2015, 48, 2209-2220.	15.6	297
9	Silica sulfuric acid mediated acylation of amines with 1,3-diketones via CC bond cleavage under solvent-free conditions. <i>Tetrahedron Letters</i> , 2015, 56, 6223-6226.	1.4	25
10	Oxidant-Controlled Catalytic Transformations of Phenols with Unexpected Cleavage of Aromatic Rings. <i>Chemistry - A European Journal</i> , 2015, 21, 13913-13918.	3.3	9
11	Titanium complexes supported by imidazo[1,5-a]pyridine-containing pyrrolyl ligand as catalysts for hydroamination and polymerization reactions, and as an antitumor reagent. <i>RSC Advances</i> , 2015, 5, 10318-10325.	3.6	12
12	Ring Reconstruction on a Trichalcogenasumanene Buckybowl: A Facile Approach to Donor-Acceptor Type [5 <sup>6</sup> 7] Fused Planar Polyheterocycles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 267-271.	13.8	37
13	Observation of Spontaneous C=C Bond Breaking in the Reaction between Atomic Boron and Ethylene in Solid Neon. <i>Angewandte Chemie</i> , 2016, 128, 8511-8514.	2.0	3
14	Observation of Spontaneous C=C Bond Breaking in the Reaction between Atomic Boron and Ethylene in Solid Neon. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8371-8374.	13.8	9
15	A Rhodium-Mediated Contraction of Benzene to Cyclopentadiene: Transformations of Rhodium(III) <i>para</i> -Benziporphyrin. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1427-1431.	13.8	38
16	Co <sub>6</sub> H <sub>8</sub> (P <sup>+</sup> Pr <sub>3</sub> ) <sub>6</sub> : A Cobalt Octahedron with Face-Capping Hydrides. <i>Angewandte Chemie</i> , 2016, 128, 16053-16057.	2.0	16
17	Cleavage of a C-C $\sigma$ bond between two phenyl groups under mild conditions during the construction of Zn( <i>scp</i> ) organic frameworks. <i>Green Chemistry</i> , 2016, 18, 5418-5422.	9.0	14
18	Molecular Rare Earth Hydride Clusters. <i>Structure and Bonding</i> , 2016, , 315-335.	1.0	7
19	Two-State Reactivity Mechanism of Benzene C-C Activation by Trinuclear Titanium Hydride. <i>Journal of the American Chemical Society</i> , 2016, 138, 11069-11072.	13.7	50
20	Mechanistic Insights into Ring Cleavage and Contraction of Benzene over a Titanium Hydride Cluster. <i>Journal of the American Chemical Society</i> , 2016, 138, 11550-11559.	13.7	50
21	Co <sub>6</sub> H <sub>8</sub> (P <sup>+</sup> Pr <sub>3</sub> ) <sub>6</sub> : A Cobalt Octahedron with Face-Capping Hydrides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15821-15825.	13.8	29

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22	Oxidative Cleavage of C=S and P=S Bonds at an Al <sup>I</sup> Center: Preparation of Terminally Bound Aluminum Sulfides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13306-13311.	13.8	61
23	Oxidative Cleavage of C=S and P=S Bonds at an Al <sup>I</sup> Center: Preparation of Terminally Bound Aluminum Sulfides. <i>Angewandte Chemie</i> , 2016, 128, 13500-13505.	2.0	20
24	A Rhodium-Mediated Contraction of Benzene to Cyclopentadiene: Transformations of Rhodium(III) Benzoporphyrin. <i>Angewandte Chemie</i> , 2016, 128, 1449-1453.	2.0	12
25	Mechanisms of volatile production from amino acid esters by irradiation. <i>Food Research International</i> , 2016, 81, 100-107.	6.2	14
26	Scandium-Catalyzed Syndiospecific Chain-Transfer Polymerization of Styrene Using Anisoles as a Chain Transfer Agent. <i>Macromolecules</i> , 2016, 49, 2458-2466.	4.8	36
27	Intermetallic Cooperation in Olefin Polymerization Catalyzed by a Binuclear Samarocene Hydride: A Theoretical Study. <i>Organometallics</i> , 2016, 35, 778-784.	2.3	28
28	1,2-Azaboroly-Ligated Titanium(IV) Half-Metallocenes: Synthesis, Characterization, and Catalytic Activity in Ethylene Polymerization. <i>Organometallics</i> , 2016, 35, 15-19.	2.3	7
29	Intramolecular Hydride Transfer Reactions in (Formazanate)Boron Dihydride Complexes. <i>Organometallics</i> , 2016, 35, 534-542.	2.3	18
30	Versatile and highly efficient synthesis of diruthenium tetrahydride complex. <i>Journal of Organometallic Chemistry</i> , 2016, 801, 6-9.	1.8	7
31	Dinitrogen Fixation by Transition Metal Hydride Complexes. <i>Topics in Organometallic Chemistry</i> , 2017, , 23-43.	0.7	25
32	Dinitrogen Activation by Dihydrogen and a PNP-Ligated Titanium Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 1818-1821.	13.7	83
33	Selective Arene Cleavage by Direct Insertion of Iridium into the Aromatic Ring. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3266-3269.	13.8	26
34	Dehydrogenative Oxidation of Cyclic Amines on a Diruthenium Complex. <i>Organometallics</i> , 2017, 36, 1893-1896.	2.3	5
35	Selective Arene Cleavage by Direct Insertion of Iridium into the Aromatic Ring. <i>Angewandte Chemie</i> , 2017, 129, 3314-3317.	2.0	10
36	Highly efficient one-step synthesis of carbon encapsulated nanocrystals by the oxidation of metal-complexes. <i>Nanotechnology</i> , 2017, 28, 325603.	2.6	3
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38	Polyhydrides of Sc, Zr and Hf and Their Proposed Formation.. <i>Israel Journal of Chemistry</i> , 2017, 57, 999-1009.	2.3	11
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41	Hydrodenitrogenation of pyridines and quinolines at a multinuclear titanium hydride framework. <i>Nature Communications</i> , 2017, 8, 1866.	12.8	46
42	Gold(III) Triggered Transformations of 22- <i>Methylmethyl</i> -benzporphyrin Involving an Effective Contraction of Benzene to Cyclopentadiene. <i>Chemistry - A European Journal</i> , 2017, 23, 2059-2066.	3.3	18
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44	Nä€funktionalisierte Ferrocene. Niedervalente Elementchloride der XIV. Gruppe und eine durch tert-Butyllithium induzierte C-C-Bindungsspaltung unter milden Bedingungen. <i>Angewandte Chemie</i> , 2018, 130, 5643-5646.	2.0	3
45	Mechanism of Iridium-Mediated Selective Arene Cleavage: Insights from Density Functional Theory (DFT) Calculations. <i>Organic Letters</i> , 2018, 20, 1505-1508.	4.6	10
46	Nä€Functionalized Ferrocenes: Subvalent Group...XIV Element Chlorides and tert-Butyllithium-Induced C-C Bond Cleavage under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5544-5547.	13.8	7
47	Mechanistic Insight into H/D Exchange by a Pentanuclear Ni-H Cluster and Synthesis and Characterization of Structural Analogues of Potential Intermediates. <i>Organometallics</i> , 2018, 37, 116-126.	2.3	18
48	Cleavage of Unstrained C-C Bonds in Acenes by Boron and Light: Transformation of Naphthalene into Benzoborepin. <i>Angewandte Chemie</i> , 2018, 130, 1085-1089.	2.0	19
49	Molecules and functions of rosewood: <i>Dalbergia stevenson</i> . <i>Arabian Journal of Chemistry</i> , 2018, 11, 782-792.	4.9	16
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51	Cleavage of Unstrained C-C Bonds in Acenes by Boron and Light: Transformation of Naphthalene into Benzoborepin. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1073-1077.	13.8	54
52	Synthesis of Surface-Analogue Square-Planar Tetranuclear Nickel Hydride Clusters and Bonding to $\frac{1}{4}$ -NR, -O and -BH Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 2438-2446.	4.0	15
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56	Synthesis of di- and trinuclear iridium polyhydride complexes surrounded by light-absorbing ligands. <i>Dalton Transactions</i> , 2018, 47, 12046-12050.	3.3	7
57	The 4-Electron Cleavage of a N=N Double Bond by a Trimetallic TiNi <sub>2</sub> Complex. <i>Inorganic Chemistry</i> , 2019, 58, 11762-11772.	4.0	11

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59	Enhancement of the Catalytic Activities of Heteronuclear Bimetallic Cations for the C–H Bond Activation of Cyclohexane. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10397-10405.	2.5	1
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63	Transition–Metal–Mediated Cleavage of C–C Bonds in Aromatic Rings. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2181-2192.	3.3	13
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73	Hydrodeoxygenative Cyclotetramerization of Carbon Monoxide by a Trinuclear Titanium Polyhydride Complex. <i>Journal of the American Chemical Society</i> , 2020, 142, 19889-19894.	13.7	30
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75	Selective valorization of lignin to phenol by direct transformation of C <sub>sp2</sub> and C <sub>sp3</sub> and C–O bonds. <i>Science Advances</i> , 2020, 6, .	10.3	62

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83	Synthesis and Diverse Transformations of a Dinitrogen Ditungsten Hydride Complex Bearing Rigid Acridane-Based PNP-Pincer Ligands. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8635-8644.	13.8	42
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86	Chemoselective C–C Bond Activation of the Most Stable Ring in Biphenylene**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2619-2623.	13.8	25
87	Chemoselective C–C Bond Activation of the Most Stable Ring in Biphenylene**. <i>Angewandte Chemie</i> , 2021, 133, 2651-2655.	2.0	7
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100	Partial Double Metal-Carbon Bonding Model in Transition Metal Methyl Compounds. Inorganic Chemistry, 2022, 61, 2892-2902.	4.0	5
101	Selective hydroboration of terminal alkynes catalyzed by heterometallic clusters with uranium-metal triple bonds. Chem, 2022, 8, 1361-1375.	11.7	15
102	Aromaticity and Extrusion of Benzenoids Linked to [COSAN] <sup>+</sup> : Clar Has the Answer. Angewandte Chemie, 0, , .	2.0	3
103	Aromaticity and Extrusion of Benzenoids Linked to [COSAN] <sup>+</sup> : Clar Has the Answer. Angewandte Chemie - International Edition, 2022, 61, .	13.8	12
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114	Trinuclear Transition Metal Complexes in Catalytic Reactions. <i>Acta Chimica Sinica</i> , 2023, 81, 84.	1.4	0
115	Breaking bonds and breaking rules: inert-bond activation by [( <sup>i</sup> Pr) <sub>3</sub> P]Ni <sub>5</sub> H <sub>4</sub> and catalytic stereospecific norbornene dimerization. <i>Chemical Communications</i> , 0, , .	4.1	1
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124	Hydrodeoxygenative Coupling and Transformation of Aldehydes at a N <sub>2</sub> -Derived Tetranuclear Titanium Imide/Hydride Framework. <i>Journal of the American Chemical Society</i> , 2023, 145, 16906-16912.	13.7	2
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129	Reversible Boron-Insertion into Aromatic C-C Bonds. <i>Angewandte Chemie</i> , 2023, 135, .	2.0	0
130	Highly Selective On-Surface Ring-Opening of Aromatic Azulene Moiety. <i>Journal of the American Chemical Society</i> , 0, , .	13.7	0

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