

Rei Kinjo

List of Publications by Year in descending order

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94
papers

6,562
citations

66343

42
h-index

64796

79
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112
all docs

112
docs citations

112
times ranked

3342
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stable Compound Containing a Silicon-Silicon Triple Bond. <i>Science</i> , 2004, 305, 1755-1757.	12.6	502
2	Synthesis and Characterization of a Neutral Tricoordinate Organoboron Isoelectronic with Amines. <i>Science</i> , 2011, 333, 610-613.	12.6	486
3	Catalytic Hydroboration of Carbonyl Derivatives, Imines, and Carbon Dioxide. <i>ACS Catalysis</i> , 2015, 5, 3238-3259.	11.2	389
4	Synthesis of a Simplified Version of Stable Bulky and Rigid Cyclic (Alkyl)(amino)carbenes, and Catalytic Activity of the Ensuing Gold(I) Complex in the Three-Component Preparation of 1,2-Dihydroquinoline Derivatives. <i>Journal of the American Chemical Society</i> , 2009, 131, 8690-8696.	13.7	225
5	Serendipitous Discovery of the Catalytic Hydroammoniation and Methylamination of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 942-945.	13.8	219
6	Isolation of a Carbene-Stabilized Phosphorus Mononitride and Its Radical Cation (PN ⁺). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5930-5933.	13.8	217
7	Reactivity of a Disilyne RSi ₂ SiR (R = SiPr[CH(SiMe ₃) ₂] ₂) toward π -Bonds: σ -Stereospecific Addition and a New Route to an Isolable 1,2-Disilabenzene. <i>Journal of the American Chemical Society</i> , 2007, 129, 7766-7767.	13.7	188
8	Gold-Catalyzed Hydroamination of Alkynes and Allenes with Parent Hydrazine. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5560-5563.	13.8	172
9	Hydrophosphination of CO ₂ and Subsequent Formate Transfer in the 1,3,2-Diazaphospholene-Catalyzed N-Formylation of Amines. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12116-12120.	13.8	167
10	Metal-Free π -Bond Metathesis in 1,3,2-Diazaphospholene-Catalyzed Hydroboration of Carbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 190-194.	13.8	167
11	Borylene Complexes (BH) ₂ and Nitrogen Cation Complexes (N ⁺) ₂ : Isoelectronic Homologues of Carbones CL ₂ . <i>Chemistry - A European Journal</i> , 2012, 18, 5676-5692.	3.3	131
12	A Concerted Transfer Hydrogenolysis: 1,3,2-Diazaphospholene-Catalyzed Hydrogenation of Ni π -N Bond with Ammonia-Borane. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3342-3346.	13.8	131
13	Isolation of a Bis(oxazolonylidene)-Phenylborylene Adduct and its Reactivity as a Boron-Centered Nucleophile. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9280-9283.	13.8	129
14	An Isolable Disilyne Anion Radical and a New Route to the Disilene Ion upon Reduction of a Disilyne. <i>Journal of the American Chemical Society</i> , 2007, 129, 26-27.	13.7	124
15	Boron-containing radical species. <i>Coordination Chemistry Reviews</i> , 2017, 352, 346-378.	18.8	122
16	Metal-Free Regio- and Chemoselective Hydroboration of Pyridines Catalyzed by 1,3,2-Diazaphosphenium Triflate. <i>Journal of the American Chemical Society</i> , 2018, 140, 652-656.	13.7	117
17	Isolation of 1,2,4,3-Triazaborol-3-yl-metal (Li, Mg, Al, Au, Zn, Sb, Bi) Derivatives and Reactivity toward CO and Isonitriles. <i>Journal of the American Chemical Society</i> , 2016, 138, 6650-6661.	13.7	114
18	Construction of π -Aromatic AlB ₂ Ring via Borane Coupling with a Dicoordinate Cyclic (Alkyl)(Amino)Aluminy Anion. <i>Journal of the American Chemical Society</i> , 2020, 142, 9057-9062.	13.7	111

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19	The Chemistry of Disilyne with a Genuine Si-Si Triple Bond: Synthesis, Structure, and Reactivity. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 825-832.	3.2	104
20	Construction of Boron-Containing Aromatic Heterocycles. <i>Synthesis</i> , 2017, 49, 2985-3034.	2.3	101
21	Small molecule activation by boron-containing heterocycles. <i>Chemical Society Reviews</i> , 2019, 48, 3613-3659.	38.1	94
22	1,3,2,5-Diazadiborinine featuring nucleophilic and electrophilic boron centres. <i>Nature Communications</i> , 2015, 6, 7340.	12.8	87
23	Ambiphilic boron in 1,4,2,5-diazadiborinine. <i>Nature Communications</i> , 2016, 7, 11871.	12.8	84
24	Tetrasilatetrahedranide: A Silicon Cage Anion. <i>Journal of the American Chemical Society</i> , 2003, 125, 13328-13329.	13.7	83
25	Diverse reactivity of a tricoordinate organoboron L_2PhB : ($L =$ oxazol-2-ylidene) towards alkali metal, group 9 metal, and coinage metal precursors. <i>Chemical Science</i> , 2015, 6, 2893-2902.	7.4	83
26	Alkene-Carbene Isomerization induced by Borane: Access to an Asymmetrical Diborene. <i>Journal of the American Chemical Society</i> , 2017, 139, 5047-5050.	13.7	78
27	Metal-Free σ -Bond Metathesis in Ammonia Activation by a Diazadiphosphapentalene. <i>Journal of the American Chemical Society</i> , 2014, 136, 16764-16767.	13.7	75
28	Boron-Based Catalysts for C-C Bond Formation Reactions. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1279-1292.	3.3	65
29	Isolation of an Imino-heterocyclic Carbene/Germanium(0) Adduct: A Mesoionic Germylene Equivalent. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13106-13109.	13.8	63
30	Isolation of a Diborane(6) Dication: Formation and Cleavage of an Electron-Precise B_3 -B Bond. <i>Journal of the American Chemical Society</i> , 2016, 138, 8623-8629.	13.7	63
31	Solid-State ^{29}Si NMR Study of $RSiSiR$: A Tool for Analyzing the Nature of the Si-Si Bond. <i>Journal of the American Chemical Society</i> , 2006, 128, 14472-14473.	13.7	62
32	Crystalline Neutral Allenic Diborene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9829-9832.	13.8	58
33	Metal-Free Catalytic Reduction of \hat{I}, \hat{I}^2 -Unsaturated Esters by 1,3,2-Diazaphospholene and Subsequent C-C Coupling with Nitriles. <i>ACS Catalysis</i> , 2017, 7, 5814-5819.	11.2	53
34	Reversible [4 + 2] cycloaddition reaction of 1,3,2,5-diazadiborinine with ethylene. <i>Chemical Science</i> , 2015, 6, 7150-7155.	7.4	52
35	The First Stable Methyl-Substituted Disilene: Synthesis, Crystal Structure, and Regiospecific MeLi Addition. <i>Organometallics</i> , 2003, 22, 4621-4623.	2.3	50
36	1,2,4,3-Triazaborole-based neutral oxoborane stabilized by a Lewis acid. <i>Chemical Communications</i> , 2014, 50, 8561.	4.1	42

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37	Azaborabutadienes: Synthesis by Metal-Free Carboboration of Nitriles and Utility as Building Blocks for B,N-Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14718-14722.	13.8	40
38	Interaction of σ -bonds of the silicon-silicon triple bond with alkali metals: An isolable anion radical upon reduction of a disilyne. <i>Synthetic Metals</i> , 2009, 159, 773-775.	3.9	37
39	Synthesis, characterization, and electronic structures of a methyl germyliumylidene ion and germylone-group VI metal complexes. <i>Chemical Communications</i> , 2016, 52, 613-616.	4.1	36
40	Electrostatic Catalyst Generated from Diazadiborinine for Carbonyl Reduction. <i>CheM</i> , 2017, 3, 134-151.	11.7	34
41	A Crystalline Diazadiborinine Radical Cation and Its Boron-Centered Radical Reactivity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7826-7829.	13.8	34
42	Coordination of Asymmetric Diborenes towards Cationic Coinage Metals (Au, Ag, Cu). <i>Chemistry - A European Journal</i> , 2018, 24, 15656-15662.	3.3	33
43	Engineering the Frontier Orbitals of a Diazadiborinine for Facile Activation of H_2 , NH_3 , and an Isonitrile. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7846-7849.	13.8	32
44	Heavier element-containing aromatics of $[4n+2]$ -electron systems. <i>Chemical Society Reviews</i> , 2021, 50, 10594-10673.	38.1	32
45	Boron Analogue of Vinylidene Dication Supported by Phosphines. <i>Journal of the American Chemical Society</i> , 2018, 140, 1255-1258.	13.7	31
46	Metal-Free Selective Borylation of Arenes by a Diazadiborinine via C-H/C-F Bond Activation and Dearomatization. <i>Journal of the American Chemical Society</i> , 2019, 141, 13729-13733.	13.7	31
47	Isolation of a Cyclic (Alkyl)(amino)germylene. <i>Molecules</i> , 2016, 21, 990.	3.8	30
48	Facile Activation of Homoatomic σ Bonds in White Phosphorus and Diborane by a Diboraallene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15691-15695.	13.8	30
49	Crystalline Tetraatomic Boron(0) Species. <i>Journal of the American Chemical Society</i> , 2019, 141, 5164-5168.	13.7	29
50	Formation of Boron-Main-Group Element Bonds by Reactions with a Tricoordinate Organoboron L_2PhB : ($L = Oxazol-2$ -ylidene). <i>Inorganic Chemistry</i> , 2017, 56, 5586-5593.	4.0	27
51	Crystalline Neutral Allenic Diborene. <i>Angewandte Chemie</i> , 2017, 129, 9961-9964.	2.0	27
52	Azaborabutadienes: Synthesis by Metal-Free Carboboration of Nitriles and Utility as Building Blocks for B,N-Heterocycles. <i>Angewandte Chemie</i> , 2016, 128, 14938-14942.	2.0	26
53	Synthesis and structural characterization of a C_4 cumulene including 4-pyridylidene units, and its reactivity towards ammonia-borane. <i>Chemical Communications</i> , 2014, 50, 12378-12381.	4.1	25
54	Serendipitous Observation of Al ^I Insertion into a C=O Bond in L_2PhB ($L = Oxazol-2$ -ylidene). <i>Chemistry - A European Journal</i> , 2016, 22, 1922-1925.	3.3	25

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55	Reactivity Studies on a Diazadiphosphapentalene. <i>Chemistry - A European Journal</i> , 2016, 22, 9976-9985.	3.3	23
56	Boron-based stepwise dioxygen activation with 1,4,2,5-diazadiborinine. <i>Chemical Science</i> , 2019, 10, 2088-2092.	7.4	23
57	Crystalline Boragermenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3147-3150.	13.8	23
58	Inorganic Benzene Valence Isomers. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2558-2574.	3.3	23
59	Zero-valent species of group 13-15 elements. <i>CheM</i> , 2022, 8, 340-350.	11.7	23
60	Isolation and Reactivity of 1,4,2-Diazaborole. <i>Journal of the American Chemical Society</i> , 2015, 137, 11274-11277.	13.7	22
61	Fragmentation of White Phosphorus by a Cyclic (Alkyl)(Amino)Alumanyl Anion. <i>Organometallics</i> , 2020, 39, 4183-4186.	2.3	22
62	Complexation of asymmetric diborenes with magnesium bromide. <i>Chemical Communications</i> , 2018, 54, 8842-8844.	4.1	20
63	A Highly Strained Al-Al σ -Bond in Dianionic Aluminum Analog of Oxirane for Molecule Activation. <i>Journal of the American Chemical Society</i> , 2021, 143, 18172-18180.	13.7	19
64	Crystalline boron-linked tetraaminoethylene radical cations. <i>Chemical Science</i> , 2017, 8, 7419-7423.	7.4	18
65	A Crystalline Diazadiborinine Radical Cation and Its Boron-Centered Radical Reactivity. <i>Angewandte Chemie</i> , 2018, 130, 7952-7955.	2.0	18
66	Borane-Catalyzed Cross-Metathesis Strategy for Facile Transformation of Cyclic (Alkyl)(Amino)germylenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 231-235.	13.8	17
67	Isolation of Bicyclopropenylidenes: Derivatives of the Smallest Member of the Fulvalene Family. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 517-520.	13.8	14
68	Bis(N-heterocyclic olefin) Derivative: An Efficient Precursor for Isophosphindolylium Species. <i>Inorganic Chemistry</i> , 2017, 56, 8608-8614.	4.0	14
69	Zwitterionic Inorganic Benzene Valence Isomer with σ -Bonding between Two π -Orbitals. <i>Journal of the American Chemical Society</i> , 2018, 140, 11921-11925.	13.7	14
70	A Neutral and Aromatic Boron-Rich Inorganic Benzene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6572-6575.	13.8	14
71	Engineering the Frontier Orbitals of a Diazadiborinine for Facile Activation of H_2 , NH_3 , and an Isonitrile. <i>Angewandte Chemie</i> , 2018, 130, 7972-7975.	2.0	13
72	A Cyclic (Alkyl)(boryl)germylene Derived from a Cyclic (Alkyl)(amino)germylene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18150-18153.	13.8	13

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73	Anti-Markovnikov hydroamination of terminal alkynes in gold-catalyzed pyridine construction from ammonia. <i>Chemical Communications</i> , 2015, 51, 12419-12422.	4.1	12
74	Ring Expansion, Photoisomerization, and Retrocyclization of 1,4,2-Diazaboroles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14572-14576.	13.8	12
75	Facile Activation of Homoatomic B-B Bonds in White Phosphorus and Diborane by a Diboraallene. <i>Angewandte Chemie</i> , 2018, 130, 15917-15921.	2.0	12
76	Crystalline Boragermenes. <i>Angewandte Chemie</i> , 2020, 132, 3171-3174.	2.0	12
77	Activation of dihydrogen by 1,4,2,5-diazadiborinine. <i>Tetrahedron</i> , 2018, 74, 7273-7276.	1.9	11
78	Synthesis and thermal reactivity of a Me ₃ N-stabilized cyclic (alkyl)(amino)oxophosphonium ion. <i>Inorganica Chimica Acta</i> , 2017, 460, 2-7.	2.4	10
79	A Crystalline B ₄ N ₂ Dewar Benzene as a Building Block for Conjugated B,N-Chains. <i>Journal of the American Chemical Society</i> , 2021, 143, 11152-11159.	13.7	10
80	Isolation and Reactivity of a Chlorogermylumylidene Featuring Two Ge-Cl Units. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2228-2231.	2.0	9
81	Germylene-bridged bimetallic Ir and Rh complexes. <i>Dalton Transactions</i> , 2019, 48, 3555-3559.	3.3	9
82	A flat carborane with multiple aromaticity beyond Wade-Mingos rules. <i>Nature Communications</i> , 2020, 11, 3370.	12.8	9
83	A snapshot of inorganic Janovsky complex analogues featuring a nucleophilic boron center. <i>Chemical Communications</i> , 2017, 53, 12734-12737.	4.1	8
84	Ring Expansion, Photoisomerization, and Retrocyclization of 1,4,2-Diazaboroles. <i>Angewandte Chemie</i> , 2017, 129, 14764-14768.	2.0	7
85	Oxidative addition of elemental selenium to 1,4,2,5-diazadiborinine. <i>Dalton Transactions</i> , 2019, 48, 7514-7518.	3.3	7
86	A Cyclic (Alkyl)(boryl)germylene Derived from a Cyclic (Alkyl)(amino)germylene. <i>Angewandte Chemie</i> , 2019, 131, 18318-18321.	2.0	6
87	Borane-Catalyzed Cross-Metathesis Strategy for Facile Transformation of Cyclic (Alkyl)(Amino)Germynes. <i>Angewandte Chemie</i> , 2019, 131, 237-241.	2.0	6
88	Bicyclic (amino)(borata)carbene derived from diazadiborinine and isonitrile. <i>Chemical Communications</i> , 2019, 55, 13012-13014.	4.1	4
89	Open questions in boron species with globally 4n π systems. <i>Communications Chemistry</i> , 2021, 4, .	4.5	4
90	A Neutral and Aromatic Boron-Rich Inorganic Benzene. <i>Angewandte Chemie</i> , 2020, 132, 6634-6637.	2.0	4

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91	Isolation of Phosphinoiminoâ€”imidazoline. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 1264-1268.	1.2	2
92	Aromatic nature of neutral and dianionic 1,4-diaza-2,3,5,6-tetraborinine derivatives. RSC Advances, 2021, 11, 592-598.	3.6	2
93	How to Install Boron into Aromatic Scaffolds? Chemistry of Diazadiborinines. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2021, 79, 1056-1064.	0.1	1
94	Frontispiece: Reactivity Studies on a Diazadiphosphapentalene. Chemistry - A European Journal, 2016, 22, .	3.3	0