

Rei Kinjo

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Zero-valent species of group 13–15 elements. <i>CheM</i> , 2022, 8, 340-350. | 11.7 | 23 |
| 2 | Aromatic nature of neutral and dianionic 1,4-diaza-2,3,5,6-tetraborinine derivatives. <i>RSC Advances</i> , 2021, 11, 592-598. | 3.6 | 2 |
| 3 | Open questions in boron species with globally 4n π systems. <i>Communications Chemistry</i> , 2021, 4, . | 4.5 | 4 |
| 4 | 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 |
| 5 | Heavier element-containing aromatics of [4n+2]-electron systems. <i>Chemical Society Reviews</i> , 2021, 50, 10594-10673. | 38.1 | 32 |
| 6 | 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 |
| 7 | 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 |
| 8 | Crystalline Boragermenes. <i>Angewandte Chemie</i> , 2020, 132, 3171-3174. | 2.0 | 12 |
| 9 | Crystalline Boragermenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3147-3150. | 13.8 | 23 |
| 10 | Inorganic Benzene Valence Isomers. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2558-2574. | 3.3 | 23 |
| 11 | Fragmentation of White Phosphorus by a Cyclic (Alkyl)(Amino)Alumanyl Anion. <i>Organometallics</i> , 2020, 39, 4183-4186. | 2.3 | 22 |
| 12 | A flat carborane with multiple aromaticity beyond Wade–Mingos rules. <i>Nature Communications</i> , 2020, 11, 3370. | 12.8 | 9 |
| 13 | A Neutral and Aromatic Boron-Rich Inorganic Benzene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6572-6575. | 13.8 | 14 |
| 14 | Construction of σ -Aromatic AIB ₂ Ring via Borane Coupling with a Dicoordinate Cyclic (Alkyl)(Amino)Alumanyl Anion. <i>Journal of the American Chemical Society</i> , 2020, 142, 9057-9062. | 13.7 | 111 |
| 15 | A Neutral and Aromatic Boron-Rich Inorganic Benzene. <i>Angewandte Chemie</i> , 2020, 132, 6634-6637. | 2.0 | 4 |
| 16 | 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 |
| 17 | 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 |
| 18 | Boron-based stepwise dioxygen activation with 1,4,2,5-diazadiborinine. <i>Chemical Science</i> , 2019, 10, 2088-2092. | 7.4 | 23 |

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|----|---|------|-----------|
| 19 | A Cyclic (Alkyl)(boryl)germylene Derived from a Cyclic (Alkyl)(amino)germylene. <i>Angewandte Chemie</i> , 2019, 131, 18318-18321. | 2.0 | 6 |
| 20 | Oxidative addition of elemental selenium to 1,4,2,5-diazadiborinine. <i>Dalton Transactions</i> , 2019, 48, 7514-7518. | 3.3 | 7 |
| 21 | Crystalline Tetraatomic Boron(0) Species. <i>Journal of the American Chemical Society</i> , 2019, 141, 5164-5168. | 13.7 | 29 |
| 22 | Small molecule activation by boron-containing heterocycles. <i>Chemical Society Reviews</i> , 2019, 48, 3613-3659. | 38.1 | 94 |
| 23 | Germylone-bridged bimetallic Ir and Rh complexes. <i>Dalton Transactions</i> , 2019, 48, 3555-3559. | 3.3 | 9 |
| 24 | Bicyclic (amino)(borata)carbene derived from diazadiborinine and isonitrile. <i>Chemical Communications</i> , 2019, 55, 13012-13014. | 4.1 | 4 |
| 25 | Borane-Catalyzed Cross-Metathesis Strategy for Facile Transformation of Cyclic (Alkyl)(Amino)Germylenes. <i>Angewandte Chemie</i> , 2019, 131, 237-241. | 2.0 | 6 |
| 26 | 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 |
| 27 | A Crystalline Diazadiborinine Radical Cation and Its Boron-Centered Radical Reactivity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7826-7829. | 13.8 | 34 |
| 28 | 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 |
| 29 | Boron Analogue of Vinylidene Dication Supported by Phosphines. <i>Journal of the American Chemical Society</i> , 2018, 140, 1255-1258. | 13.7 | 31 |
| 30 | 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 |
| 31 | A Crystalline Diazadiborinine Radical Cation and Its Boron-Centered Radical Reactivity. <i>Angewandte Chemie</i> , 2018, 130, 7952-7955. | 2.0 | 18 |
| 32 | Boron-Based Catalysts for C-C Bond-Formation Reactions. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1279-1292. | 3.3 | 65 |
| 33 | 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 |
| 34 | Facile Activation of Homoatomic If Bonds in White Phosphorus and Diborane by a Diboraallene. <i>Angewandte Chemie</i> , 2018, 130, 15917-15921. | 2.0 | 12 |
| 35 | Facile Activation of Homoatomic If Bonds in White Phosphorus and Diborane by a Diboraallene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15691-15695. | 13.8 | 30 |
| 36 | Activation of dihydrogen by 1,4,2,5-diazadiborinine. <i>Tetrahedron</i> , 2018, 74, 7273-7276. | 1.9 | 11 |

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|----|--|------|-----------|
| 37 | Zwitterionic Inorganic Benzene Valence Isomer with π -Bonding between Two π -Orbitals. <i>Journal of the American Chemical Society</i> , 2018, 140, 11921-11925. | 13.7 | 14 |
| 38 | 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 |
| 39 | Coordination of Asymmetric Diborenes towards Cationic Coinage Metals (Au, Ag, Cu). <i>Chemistry - A European Journal</i> , 2018, 24, 15656-15662. | 3.3 | 33 |
| 40 | Complexation of asymmetric diborenes with magnesium bromide. <i>Chemical Communications</i> , 2018, 54, 8842-8844. | 4.1 | 20 |
| 41 | Bis(N-heterocyclic olefin) Derivative: An Efficient Precursor for Isophosphindolylum Species. <i>Inorganic Chemistry</i> , 2017, 56, 8608-8614. | 4.0 | 14 |
| 42 | 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 |
| 43 | Construction of Boron-Containing Aromatic Heterocycles. <i>Synthesis</i> , 2017, 49, 2985-3034. | 2.3 | 101 |
| 44 | 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 |
| 45 | A snapshot of inorganic Janovsky complex analogues featuring a nucleophilic boron center. <i>Chemical Communications</i> , 2017, 53, 12734-12737. | 4.1 | 8 |
| 46 | Boron-containing radical species. <i>Coordination Chemistry Reviews</i> , 2017, 352, 346-378. | 18.8 | 122 |
| 47 | Crystalline boron-linked tetraaminoethylene radical cations. <i>Chemical Science</i> , 2017, 8, 7419-7423. | 7.4 | 18 |
| 48 | Ring Expansion, Photoisomerization, and Retrocyclization of 1,4,2-Diazaboroles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14572-14576. | 13.8 | 12 |
| 49 | Electrostatic Catalyst Generated from Diazadiborinine for Carbonyl Reduction. <i>CheM</i> , 2017, 3, 134-151. | 11.7 | 34 |
| 50 | Crystalline Neutral Allenic Diborene. <i>Angewandte Chemie</i> , 2017, 129, 9961-9964. | 2.0 | 27 |
| 51 | Crystalline Neutral Allenic Diborene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9829-9832. | 13.8 | 58 |
| 52 | Metal-Free Catalytic Reduction of α,β -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 |
| 53 | Ring Expansion, Photoisomerization, and Retrocyclization of 1,4,2-Diazaboroles. <i>Angewandte Chemie</i> , 2017, 129, 14764-14768. | 2.0 | 7 |
| 54 | 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 |

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|----|--|------|-----------|
| 55 | Isolation of a Cyclic (Alkyl)(amino)germylene. <i>Molecules</i> , 2016, 21, 990. | 3.8 | 30 |
| 56 | Serendipitous Observation of Al ^I Insertion into a C=O Bond in L ₂ PhB (L=Oxazol-2-ylidene). <i>Chemistry - A European Journal</i> , 2016, 22, 1922-1925. | 3.3 | 25 |
| 57 | Reactivity Studies on a Diazadiphosphapentalene. <i>Chemistry - A European Journal</i> , 2016, 22, 9976-9985. | 3.3 | 23 |
| 58 | 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 |
| 59 | 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 |
| 60 | Isolation of Phosphinoimino- ϵ -imidazoline. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 1264-1268. | 1.2 | 2 |
| 61 | Ambiphilic boron in 1,4,2,5-diazadiborinine. <i>Nature Communications</i> , 2016, 7, 11871. | 12.8 | 84 |
| 62 | 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 |
| 63 | Frontispiece: Reactivity Studies on a Diazadiphosphapentalene. <i>Chemistry - A European Journal</i> , 2016, 22, . | 3.3 | 0 |
| 64 | Isolation of a Diborane(6) Dication: Formation and Cleavage of an Electron-Precise B(sp ³) ⁺ -B(sp ³) Bond. <i>Journal of the American Chemical Society</i> , 2016, 138, 8623-8629. | 13.7 | 63 |
| 65 | 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 |
| 66 | 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 |
| 67 | 1,3,2,5-Diazadiborinine featuring nucleophilic and electrophilic boron centres. <i>Nature Communications</i> , 2015, 6, 7340. | 12.8 | 87 |
| 68 | Anti-Markovnikov hydroimination of terminal alkynes in gold-catalyzed pyridine construction from ammonia. <i>Chemical Communications</i> , 2015, 51, 12419-12422. | 4.1 | 12 |
| 69 | Catalytic Hydroboration of Carbonyl Derivatives, Imines, and Carbon Dioxide. <i>ACS Catalysis</i> , 2015, 5, 3238-3259. | 11.2 | 389 |
| 70 | Diverse reactivity of a tricoordinate organoboron L ₂ PhB: (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 |
| 71 | Isolation and Reactivity of 1,4,2-Diazaborole. <i>Journal of the American Chemical Society</i> , 2015, 137, 11274-11277. | 13.7 | 22 |
| 72 | Reversible [4 + 2] cycloaddition reaction of 1,3,2,5-diazadiborinine with ethylene. <i>Chemical Science</i> , 2015, 6, 7150-7155. | 7.4 | 52 |

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|----|--|------|-----------|
| 73 | Metal-Free σ -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 |
| 74 | 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 |
| 75 | Isolation of an Imino-N-heterocyclic Carbene/Germanium(0) Adduct: A Mesoionic Germylene Equivalent. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13106-13109. | 13.8 | 63 |
| 76 | A Concerted Transfer Hydrogenolysis: 1,3,2-Diazaphospholene-Catalyzed Hydrogenation of $\text{Ni}\frac{3}{4}\text{N}$ Bond with Ammonia-Borane. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3342-3346. | 13.8 | 131 |
| 77 | 1,2,4,3-Triazaborole-based neutral oxoborane stabilized by a Lewis acid. <i>Chemical Communications</i> , 2014, 50, 8561. | 4.1 | 42 |
| 78 | 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 |
| 79 | Isolation of a Bis(oxazol-2-ylidene)-Phenylborylene Adduct and its Reactivity as a Boron-Centered Nucleophile. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9280-9283. | 13.8 | 129 |
| 80 | Borylene Complexes $(\text{BH})\text{L}_2$ and Nitrogen Cation Complexes (N^+L_2) : Isoelectronic Homologues of Carbones CL_2 . <i>Chemistry - A European Journal</i> , 2012, 18, 5676-5692. | 3.3 | 131 |
| 81 | Synthesis and Characterization of a Neutral Tricoordinate Organoboron Isoelectronic with Amines. <i>Science</i> , 2011, 333, 610-613. | 12.6 | 486 |
| 82 | Gold-Catalyzed Hydroamination of Alkynes and Allenes with Parent Hydrazine. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5560-5563. | 13.8 | 172 |
| 83 | Serendipitous Discovery of the Catalytic Hydroammoniation and Methylamination of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 942-945. | 13.8 | 219 |
| 84 | 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 |
| 85 | 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 |
| 86 | 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 |
| 87 | 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 |
| 88 | An Isolable Disilyne Anion Radical and a New Route to the Disilenide Ion upon Reduction of a Disilyne. <i>Journal of the American Chemical Society</i> , 2007, 129, 26-27. | 13.7 | 124 |
| 89 | Reactivity of a Disilyne RSiSiR ($\text{R} = \text{SiPr}[\text{CH}(\text{SiMe}_3)_2]$) toward σ -Bonds: A 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 |
| 90 | 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 |

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|----|---|------|-----------|
| 91 | The Chemistry of Disilyne with a Genuine Si-Si Triple Bond: Synthesis, Structure, and Reactivity. Bulletin of the Chemical Society of Japan, 2006, 79, 825-832. | 3.2 | 104 |
| 92 | A Stable Compound Containing a Silicon-Silicon Triple Bond. Science, 2004, 305, 1755-1757. | 12.6 | 502 |
| 93 | Tetrasilatetrahedranide: A Silicon Cage Anion. Journal of the American Chemical Society, 2003, 125, 13328-13329. | 13.7 | 83 |
| 94 | The First Stable Methyl-Substituted Disilene: Synthesis, Crystal Structure, and Regiospecific MeLi Addition. Organometallics, 2003, 22, 4621-4623. | 2.3 | 50 |