Qiang Chen

List of Publications by Year in descending order

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| | | 172457 | 138484 |
|----------|----------------|--------------|----------------|
| 68 | 3,499 | 29 | 58 |
| papers | citations | h-index | g-index |
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| 71 | 71 | 71 | 1645 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | Citations |
|----|--|------|-----------|
| 1 | Boron-lead multiple bonds in the PbB2O– and PbB3O2– clusters. Communications Chemistry, 2022, 5, . | 4.5 | 4 |
| 2 | B ₄₈ ^{â^²} : a bilayer boron cluster. Nanoscale, 2021, 13, 3868-3876. | 5.6 | 43 |
| 3 | Transition-metal-like bonding behaviors of a boron atom in a boron-cluster boronyl complex [(η ⁷ -B ₇)-B-BO] ^{â^'} . Chemical Science, 2021, 12, 8157-8164. | 7.4 | 11 |
| 4 | Bilayer B 54, B 60, and B 62 Clusters in a Universal Structural Pattern. European Journal of Inorganic Chemistry, 2020, 2020, 3296-3301. | 2.0 | 15 |
| 5 | Methyleneâ€bridged bis(8â€arylimino)â€5,6,7â€trihydroâ€quinolylinickel precatalysts for ethylene polymerization. Journal of Polymer Science, 2020, 58, 1675-1686. | 3.8 | 8 |
| 6 | 1,5-Naphthyl-linked bis(imino)pyridines as binucleating scaffolds for dicobalt ethylene oligo-/polymerization catalysts: exploring temperature and steric effects. Dalton Transactions, 2019, 48, 8264-8278. | 3.3 | 19 |
| 7 | B ₃₁ ^{â^²} and B ₃₂ ^{â^²} : chiral quasi-planar boron clusters. Nanoscale, 2019, 11, 9698-9704. | 5.6 | 22 |
| 8 | Selective Generation of Free Hydrogen Atoms in the Reaction of Methane with Diatomic Gold Boride Cations. Zeitschrift Fur Physikalische Chemie, 2019, 233, 785-797. | 2.8 | 5 |
| 9 | Planar B ₄₁ ^{â^'} and B ₄₂ ^{â^'} clusters with double-hexagonal vacancies. Nanoscale, 2019, 11, 23286-23295. | 5.6 | 44 |
| 10 | Predicting lanthanide boride inverse sandwich tubular molecular rotors with the smallest core–shell structure. Nanoscale, 2019, 11, 21311-21316. | 5.6 | 19 |
| 11 | Neutral Au ₁ -Doped Cluster Catalysts AuTi ₂ O _{3–6} for CO Oxidation by O ₂ . Journal of the American Chemical Society, 2019, 141, 2027-2034. | 13.7 | 39 |
| 12 | Methylene-bridged bimetallic bis(imino)pyridine-cobaltous chlorides as precatalysts for vinyl-terminated polyethylene waxes. Dalton Transactions, 2018, 47, 6124-6133. | 3.3 | 20 |
| 13 | Thermal activation of methane by vanadium boride cluster cations VB _n ⁺ (⟨i⟩n⟨/i⟩ = 3–6). Physical Chemistry Chemical Physics, 2018, 20, 4641-4645. | 2.8 | 17 |
| 14 | Aromatic cage-like B ₃₄ and B ₃₅ ⁺ : new axially chiral members of the borospherene family. Physical Chemistry Chemical Physics, 2018, 20, 15344-15349. | 2.8 | 13 |
| 15 | Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. Angewandte Chemie, 2018, 130, 14330-14334. | 2.0 | 10 |
| 16 | CH(phenol)-Bridged Bis(imino)pyridines as Compartmental Supports for Diiron Precatalysts for Ethylene Polymerization: Exploring Cooperative Effects on Performance. Organometallics, 2018, 37, 4002-4014. | 2.3 | 24 |
| 17 | Mechanistic Variants in Methane Activation Mediated by Gold(I) Supported on Silicon Oxide Clusters. Chemistry - A European Journal, 2018, 24, 17506-17512. | 3.3 | 10 |
| 18 | Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. Angewandte Chemie - International Edition, 2018, 57, 14134-14138. | 13.8 | 27 |

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|----|---|-----|-----------|
| 19 | Charge-induced structural transition between seashell-like B ₂₉ ^{â^'} and B ₂₉ ⁺ in 18 Ï€-electron configurations. Physical Chemistry Chemical Physics, 2018, 20, 15330-15334. | 2.8 | 12 |
| 20 | B26â^': The smallest planar boron cluster with a hexagonal vacancy and a complicated potential landscape. Chemical Physics Letters, 2017, 683, 336-341. | 2.6 | 48 |
| 21 | Planar B ₃₈ ^{â^'} and B ₃₇ ^{â^'} clusters with a double-hexagonal vacancy: molecular motifs for borophenes. Nanoscale, 2017, 9, 4550-4557. | 5.6 | 76 |
| 22 | A novel borophene featuring heptagonal holes: a common precursor of borospherenes. Physical Chemistry Chemical Physics, 2017, 19, 19890-19895. | 2.8 | 12 |
| 23 | Cage-like B ₃₉ ⁺ clusters with the bonding pattern of if + i∈ double delocalization: new members of the borospherene family. Physical Chemistry Chemical Physics, 2017, 19, 10998-11003. | 2.8 | 23 |
| 24 | B ₃₃ ^{â€"} and B ₃₄ ^{â€"} : Aromatic Planar Boron Clusters with a Hexagonal Vacancy. European Journal of Inorganic Chemistry, 2017, 2017, 4546-4551. | 2.0 | 41 |
| 25 | Observation and characterization of the smallest borospherene, B28â^ and B28. Journal of Chemical Physics, 2016, 144, 064307. | 3.0 | 141 |
| 26 | "W-X-M―transformations in isomerization of B39Ⱐborospherenes. AIP Advances, 2016, 6, . | 1.3 | 11 |
| 27 | Chemical bonding and dynamic fluxionality of a B ₁₅ ⁺ cluster: a nanoscale double-axle tank tread. Physical Chemistry Chemical Physics, 2016, 18, 15774-15782. | 2.8 | 48 |
| 28 | Cage-like B40 +: a perfect borospherene monocation. Journal of Molecular Modeling, 2016, 22, 124. | 1.8 | 16 |
| 29 | Endohedral charge-transfer complex Ca@B ₃₇ ^{â°°} : stabilization of a B ₃₇ ^{3â°°} borospherene trianion by metal-encapsulation. Physical Chemistry Chemical Physics, 2016, 18, 14186-14190. | 2.8 | 45 |
| 30 | Competition between quasi-planar and cage-like structures in the B ₂₉ ^{â^'} cluster: photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2016, 18, 29147-29155. | 2.8 | 85 |
| 31 | From Quasi-Planar B56 to Penta-Ring Tubular Ca©B56: Prediction of Metal-Stabilized Ca©B56 as the Embryo of Metal-Doped Boron î±-Nanotubes. Scientific Reports, 2016, 6, 37893. | 3.3 | 7 |
| 32 | Saturn-like charge-transfer complexes Li ₄ &B ₃₆ , Li ₅ &B ₃₆ ⁺ , and Li ₆ &B ₃₆ ²⁺ : exohedral metalloborospherenes with a perfect cage-like B ₃₆ ^{4â°¹} core. Physical Chemistry Chemical Physics, 2016, 18, 9922-9926. | 2.8 | 58 |
| 33 | Endohedral Ca@B ₃₈ : stabilization of a B ₃₈ ^{2â^'} borospherene dianion by metal encapsulation. Physical Chemistry Chemical Physics, 2016, 18, 11610-11615. | 2.8 | 50 |
| 34 | Cageâ€Like B ₄₁ ⁺ and B ₄₂ ²⁺ : New Chiral Members of the Borospherene Family. Angewandte Chemie, 2015, 127, 8278-8282. | 2.0 | 11 |
| 35 | Pyrazino-[2,3-f][1,10]phenanthroline as a new anchoring group of organic dyes for dye-sensitized solar cells. RSC Advances, 2015, 5, 46206-46209. | 3.6 | 5 |
| 36 | Ni(ii) source as a pre-catalyst for the cross-coupling of benzylic pivalates with arylboronic acids: facile access to tri- and diarylmethanes. RSC Advances, 2015, 5, 15338-15340. | 3.6 | 22 |

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|----|---|------|-----------|
| 37 | Planar dicyclic B6S6, B6S6â^', and B6S62â^' clusters: Boron sulfide analogues of naphthalene. Journal of Chemical Physics, 2015, 142, 014302. | 3.0 | 14 |
| 38 | Homo-Coupling of Terminal Alkynes Using a Simple, Cheap Ni(dppe)Cl ₂ /Ag ₂ O Catalyst System. Synthetic Communications, 2015, 45, 824-830. | 2.1 | 7 |
| 39 | Experimental and Theoretical Evidence of an Axially Chiral Borospherene. ACS Nano, 2015, 9, 754-760. | 14.6 | 228 |
| 40 | Ribbon Aromaticity of Double-Chain B2n C2H2 Clusters (nÂ=Â2–9): A First Principle Study. Journal of Cluster Science, 2015, 26, 2043-2050. | 3.3 | 4 |
| 41 | Endohedral C ₃ Ca@B ₃₉ ⁺ and C ₂ Ca@B ₃₉ ⁺ : axially chiral metalloborospherenes based on B ₃₉ ^{â°'} . Physical Chemistry Chemical Physics, 2015, 17, 19690-19694. | 2.8 | 31 |
| 42 | Boronyl as a terminal ligand in boron oxide clusters: hexagonal ring C _{2v} B ₆ O ₄ and ethylene-like D _{2h} B ₆ O ₄ ^{â~/2â~'} . Physical Chemistry Chemical Physics, 2015, 17, 19929-19935. | 2.8 | 5 |
| 43 | Photoelectron spectroscopy of B4O4â^': Dual 3c-4e Ï€ hyperbonds and rhombic 4c-4e <i>o</i> boron oxide clusters. Journal of Chemical Physics, 2015, 142, 134305. | 3.0 | 23 |
| 44 | Cageâ€Like B ₄₁ ⁺ and B ₄₂ ²⁺ : New Chiral Members of the Borospherene Family. Angewandte Chemie - International Edition, 2015, 54, 8160-8164. | 13.8 | 105 |
| 45 | A first-principles study on the B5O5+/0 and B5O5 \hat{a} clusters: The boron oxide analogs of C6H5+/0 and CH3Cl. Journal of Chemical Physics, 2015, 143, 064303. | 3.0 | 14 |
| 46 | B ₁₁ ^{â^'} : a moving subnanoscale tank tread. Nanoscale, 2015, 7, 16054-16060. | 5.6 | 72 |
| 47 | Endohedral and Exohedral Metalloborospherenes: M@B ₄₀ (M=Ca, Sr) and M&B ₄₀ (M=Be, Mg). Angewandte Chemie - International Edition, 2015, 54, 941-945. | 13.8 | 130 |
| 48 | Chemical bonding in electron-deficient boron oxide clusters: core boronyl groups, dual 3c–4e hypervalent bonds, and rhombic 4c–4e bonds. Physical Chemistry Chemical Physics, 2014, 16, 7274. | 2.8 | 29 |
| 49 | Nickel-catalyzed cross-coupling of carboxylic anhydrides with arylboronic acids. RSC Advances, 2014, 4, 53885-53890. | 3.6 | 31 |
| 50 | Photoelectron spectroscopy of lithium and gold alloyed boron oxide clusters: charge transfer complexes, covalent gold, hyperhalogen, and dual three-center four-electron hyperbonds. Physical Chemistry Chemical Physics, 2014, 16, 5129. | 2.8 | 22 |
| 51 | Quasi-planar aromatic B ₃₆ and B ₃₆ ^{â^'} clusters: all-boron analogues of coronene. Physical Chemistry Chemical Physics, 2014, 16, 18282. | 2.8 | 91 |
| 52 | The B ₃₅ Cluster with a Double-Hexagonal Vacancy: A New and More Flexible Structural Motif for Borophene. Journal of the American Chemical Society, 2014, 136, 12257-12260. | 13.7 | 298 |
| 53 | Observation of an all-boron fullerene. Nature Chemistry, 2014, 6, 727-731. | 13.6 | 724 |
| 54 | Boronyl Chemistry: The BO Group as a New Ligand in Gas-Phase Clusters and Synthetic Compounds. Accounts of Chemical Research, 2014, 47, 2435-2445. | 15.6 | 71 |

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|----|--|-----|-----------|
| 55 | Perfectly planar boronyl boroxine <i>D</i> 3 <i>h</i> B6O6: A boron oxide analog of boroxine and benzene. Journal of Chemical Physics, 2013, 138, 244304. | 3.0 | 43 |
| 56 | B30H8, B39H9 2â^', B42H10, B48H10, and B72H12: polycyclic aromatic snub hydroboron clusters analogous to polycyclic aromatic hydrocarbons. Journal of Molecular Modeling, 2013, 19, 1195-1204. | 1.8 | 15 |
| 57 | Binary nature of monolayer boron sheets from <i>ab initio</i> global searches. Journal of Chemical Physics, 2013, 138, 024701. | 3.0 | 44 |
| 58 | Ribbon aromaticity in double-chain planar BnH22 \hat{a} and Li2BnH2 nanoribbon clusters up to n = 22: lithiated boron dihydride analogues of polyenes. Physical Chemistry Chemical Physics, 2013, 15, 18872. | 2.8 | 31 |
| 59 | On the structures and bonding in boron-gold alloy clusters: B6Au <i>n</i> i>and B6Au <i>n</i> (<i>n</i>) and B6Au <in>n) and B6Au<in>n</in>) and B6Au<in>n<in>n</in>) and B6Au<in>n<in>n<in>n<in>n<in>n<in>n<in>n<in></in></in></in></in></in></in></in></in></in></in> | 3.0 | 24 |
| 60 | Pi and sigma double conjugations in boronyl polyboroene nanoribbons: $B < sub > (i > n < i > r < sub > 2 < sub > 3 < sub > 4 < sub > 4 < sub > 6 < sub > 2 < sub > 6 < $ | 3.0 | 40 |
| 61 | Photoelectron spectroscopy of boron-gold alloy clusters and boron boronyl clusters: B3Au <i>n</i> and B3(BO) <i i="" n<="">and B3(BO)<i i="" n<="">and B3(BO)</i>and B3(BO)</i> and B3(BO)and B3(BO | 3.0 | 32 |
| 62 | Double-chain planar D2h B4H2, C2h B8H2, and C2h B12H2: conjugated aromatic borenes. Physical Chemistry Chemical Physics, 2012, 14, 14769. | 2.8 | 51 |
| 63 | Probing the structures and chemical bonding of boron-boronyl clusters using photoelectron spectroscopy and computational chemistry: B4(BO) <i>n</i> e>a' (<i>n</i> e> 1â \in "3). Journal of Chemical Physics, 2012, 137, 044307. | 3.0 | 26 |
| 64 | Perfectly planar concentric Ï€-aromatic B18H3â^', B18H4, B18H5+, and B18H62+ with [10]annulene character. Physical Chemistry Chemical Physics, 2011, 13, 20620. | 2.8 | 20 |
| 65 | Deciphering the mystery of hexagon holes in an all-boron graphene α-sheet. Physical Chemistry Chemical Physics, 2011, 13, 11575. | 2.8 | 136 |
| 66 | Ï€-Aromatic B16H6: A Neutral Boron Hydride Analogue of Naphthalene. Journal of Cluster Science, 2011, 22, 513-523. | 3.3 | 23 |
| 67 | Investigation of pH sensitivity of poly(acrylic acid-co-acrylamide) hydrogel. Polymer International, 2003, 52, 1153-1157. | 3.1 | 44 |
| 68 | Investigation of the gelation process by in-situ interferometry. Macromolecular Rapid Communications, 2000, 21, 998-1001. | 3.9 | 4 |