

R Bruce King

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#	Paper	IF	Citations
428	A stable, neutral diborene containing a B=B double bond. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12412-3	16.4	434
427	Spherical aromaticity: recent work on fullerenes, polyhedral boranes, and related structures. <i>Chemical Reviews</i> , 2005 , 105, 3613-42	68.1	389
426	Three-dimensional aromaticity in polyhedral boranes and related molecules. <i>Chemical Reviews</i> , 2001 , 101, 1119-52	68.1	378
425	Chemical applications of group theory and topology. 7. A graph-theoretical interpretation of the bonding topology in polyhedral boranes, carboranes, and metal clusters. <i>Journal of the American Chemical Society</i> , 1977 , 99, 7834-7840	16.4	213
424	Applications of metal carbonyl anions in the synthesis of unusual organometallic compounds. <i>Accounts of Chemical Research</i> , 1970 , 3, 417-427	24.3	188
423	On the chemistry of Zn-Zn bonds, RZn-ZnR (R = [(2,6-Pri ₂ C ₆ H ₃)N(Me)C] ₂ CH]): synthesis, structure, and computations. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11944-5	16.4	181
422	Remarkable aspects of unsaturation in trinuclear metal carbonyl clusters: the triiron species Fe ₃ (CO) _n (n = 12, 11, 10, 9). <i>Journal of the American Chemical Society</i> , 2006 , 128, 11376-84	16.4	178
421	Butterfly diradical intermediates in photochemical reactions of Fe ₂ (CO) ₆ (μ-S ₂). <i>Journal of the American Chemical Society</i> , 2006 , 128, 5342-3	16.4	134
420	Organometallic Chemistry of the Transition Metals. XVI. Polynuclear Cyclopentadienylmetal Carbonyls of Iron and Cobalt. <i>Inorganic Chemistry</i> , 1966 , 5, 2227-2230	5.1	124
419	Binuclear Homoleptic Iron Carbonyls: Incorporation of Formal Iron-Iron Single, Double, Triple, and Quadruple Bonds, Fe ₂ (CO) _x (x = 9, 8, 7, 6). <i>Journal of the American Chemical Society</i> , 2000 , 122, 8746-8761	16.4	122
418	The dichotomy of dimetallocenes: coaxial versus perpendicular dimetal units in sandwich compounds. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2818-9	16.4	112
417	Organosulfur Derivatives of Metal Carbonyls. I. The Isolation of Two Isomeric Products in the Reaction of Triiron Dodecacarbonyl with Dimethyl Disulfide. <i>Journal of the American Chemical Society</i> , 1962 , 84, 2460-2460	16.4	108
416	Chemistry of the Metal Carbonyls. XIV. New Organosulfur Derivatives of Iron and Cobalt ^{1,2} . <i>Journal of the American Chemical Society</i> , 1961 , 83, 3600-3604	16.4	106
415	Binuclear cyclopentadienylcobalt carbonyls: comparison with binuclear iron carbonyls. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11646-51	16.4	97
414	Antiaromaticity in bare deltahedral silicon clusters satisfying Wade's and Hirsch's rules: an apparent correlation of antiaromaticity with high symmetry. <i>Journal of the American Chemical Society</i> , 2004 , 126, 430-1	16.4	79
413	εCYCLOPENTADIENYL-εCYCLOHEPTATRIENYL VANADIUM. <i>Journal of the American Chemical Society</i> , 1959 , 81, 5263-5264	16.4	77
412	Discovery of a silicon-based ferrimagnetic wheel structure in V(x)Si(12)(-) (x = 1-3) clusters: photoelectron spectroscopy and density functional theory investigation. <i>Nanoscale</i> , 2014 , 6, 14617-21	7.7	76

411	Cobalt-Cobalt Multiple Bonds in Homoleptic Carbonyls? $\text{Co}_2(\text{CO})_x$ ($x = 5, 8$) Structures, Energetics, and Vibrational Spectra. <i>Inorganic Chemistry</i> , 2001 , 40, 900-911	5.1	69
410	Metal-Metal (MM) Bond Distances and Bond Orders in Binuclear Metal Complexes of the First Row Transition Metals Titanium Through Zinc. <i>Chemical Reviews</i> , 2018 , 118, 11626-11706	68.1	69
409	Homoleptic Carbonyls of the Second-Row Transition Metals: Evaluation of Hartree-Fock and Density Functional Theory Methods. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1580-7	6.4	68
408	Organometallic Chemistry of the Transition Metals. VI. Some Cycloheptatrienyl Derivatives of Chromium, Molybdenum, and Cobalt. <i>Inorganic Chemistry</i> , 1964 , 3, 785-790	5.1	67
407	Topological Aspects of the Skeletal Bonding in "Isocloso" Metallaboranes Containing "Anomalous" Numbers of Skeletal Electrons. <i>Inorganic Chemistry</i> , 1999 , 38, 5151-5153	5.1	65
406	Organonitrogen derivatives of metal carbonyls. IX. Novel products from reactions of aminoalkynes with metal carbonyls. <i>Inorganic Chemistry</i> , 1976 , 15, 879-885	5.1	64
405	Alkylaminobis(difluorophosphines): novel bidentate ligands for stabilizing low metal oxidation states and metal-metal bonded systems. <i>Accounts of Chemical Research</i> , 1980 , 13, 243-248	24.3	63
404	B28: the smallest all-boron cage from an ab initio global search. <i>Nanoscale</i> , 2015 , 7, 15086-90	7.7	60
403	Binuclear Homoleptic Nickel Carbonyls: Incorporation of Ni-Ni Single, Double, and Triple Bonds, $\text{Ni}_2(\text{CO})_x$ ($x = 5, 6, 7$). <i>Journal of the American Chemical Society</i> , 2000 , 122, 1989-1994	16.4	56
402	Transition Metal Cluster Compounds. <i>Progress in Inorganic Chemistry</i> , 2007 , 287-473		52
401	Structure and bonding in the omnicaapped truncated tetrahedral Au_{20} cluster: analogies between gold and carbon cluster chemistry. <i>Inorganic Chemistry</i> , 2004 , 43, 4564-6	5.1	52
400	Symmetry factoring of the characteristic equations of graphs corresponding to polyhedra. <i>Theoretica Chimica Acta</i> , 1977 , 44, 223-243		52
399	Binuclear homoleptic manganese carbonyls: $\text{Mn}_2(\text{CO})_x$ ($x = 10, 9, 8, 7$). <i>Inorganic Chemistry</i> , 2003 , 42, 5219-30	5.1	47
398	CHEMISTRY OF THE METAL CARBONYLS. X. TETRACARBONYLNITROSYLMANGANESE(0) _{1,2} . <i>Journal of the American Chemical Society</i> , 1961 , 83, 2593-2594	16.4	46
397	Unsaturation in binuclear cyclopentadienyliron carbonyls. <i>Inorganic Chemistry</i> , 2006 , 45, 3384-92	5.1	45
396	Oblate deltahedra in dimetallaboranes: geometry and chemical bonding. <i>Inorganic Chemistry</i> , 2006 , 45, 8211-6	5.1	43
395	Density functional theory study of nine-atom germanium clusters: effect of electron count on cluster geometry. <i>Inorganic Chemistry</i> , 2003 , 42, 6701-8	5.1	40
394	Dual relationship between large gold clusters (antifullerenes) and carbon fullerenes: a new lowest-energy cage structure for Au_{50} . <i>Journal of Physical Chemistry A</i> , 2007 , 111, 411-4	2.8	39

393	Dialkylaminodichlorophosphines. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 1985 , 15, 149-153		38
392	Spectroscopic detection and theoretical confirmation of the role of Cr ₂ (CO) ₅ (C ₅ R ₅) ₂ and .Cr(CO) ₂ (ketene)(C ₅ R ₅) as intermediates in carbonylation of N=N=CHSiMe ₃ to O=C=CHSiMe ₃ by .Cr(CO) ₃ (C ₅ R ₅) (R = H, CH ₃). <i>Journal of the American Chemical Society</i> , 2007 , 129, 14388-400	16.4	36
391	Organonitrogen derivatives of metal carbonyls. VI. Novel products reactions of 2-bromo-2-nitrosopropane with metal carbonylanions. <i>Inorganic Chemistry</i> , 1974 , 13, 1339-1342	5.1	36
390	Boron clusters with 46, 48, and 50 atoms: competition among the core-shell, bilayer and quasi-planar structures. <i>Nanoscale</i> , 2017 , 9, 13905-13909	7.7	35
389	Density functional theory study of 10-atom germanium clusters: effect of electron count on cluster geometry. <i>Inorganic Chemistry</i> , 2006 , 45, 4974-81	5.1	35
388	Flat Potential Energy Surface of the Saturated Binuclear Homoleptic Chromium Carbonyl Cr ₂ (CO) ₁₁ with One, Two, and Three Bridging Carbonyls: Comparison with the Well-Known [HCr ₂ (CO) ₁₀] ⁻ Anion and the Related [(H)2Cr ₂ (CO) ₉] ²⁻ and [(H)2Cr ₂ (CO) ₈] ²⁻ Dianions. <i>Journal of Chemical Physics</i> , 2004 , 120, 11112-11118	2.8	35
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382	Metal-Metal Quintuple and Sextuple Bonding in Bent Dimetalloenes of the Third Row Transition Metals. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 735-46	6.4	28
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378	A density functional theory study of five-, six- and seven-atom germanium clusters: distortions from ideal bipyramidal deltahedra in hypoelectronic structures. <i>Dalton Transactions RSC</i> , 2002 , 3999-4004		27
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376	Bis(cycloheptatrienyl) Derivatives of the First-Row Transition Metals: Variable Hapticity of the Cycloheptatrienyl Ring. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 3698-3708	2.3	26

375	Density functional theory study of 11-atom germanium clusters: effect of electron count on cluster geometry. <i>Inorganic Chemistry</i> , 2005 , 44, 3579-88	5.1	26
374	Defective vertices in closo- and nido-borane polyhedra. <i>Inorganic Chemistry</i> , 2001 , 40, 6369-74	5.1	26
373	Complete substitution of carbonyl groups in cyclopentadienyliron dicarbonyl dimer by methylaminobis(difluorophosphine). A novel bridging CH ₃ NPF ₂ ligand bonded to metals through both phosphorus and nitrogen. <i>Journal of the American Chemical Society</i> , 1978 , 100, 1632-1634	16.4	26
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366	Prospects for making organometallic compounds with BF ligands: fluoroborylene iron carbonyls. <i>Inorganic Chemistry</i> , 2010 , 49, 1046-55	5.1	23
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361	Density functional theory study of eight-atom germanium clusters: effect of electron count on cluster geometry. <i>Dalton Transactions</i> , 2005 , 1858-64	4.3	22
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358	Aromatic and antiaromatic spherical structures: use of long-range magnetic behavior as an aromatic indicator for bare icosahedral [Al@Al] and [Si] clusters. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15667-15670	3.6	21

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- 347 Metal-metal interactions in deltahedral dirhoda- and diiridadecaboranes. *Inorganica Chimica Acta*, **2013**, 397, 83-87 2.7 17
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- 340 X-Ray crystal and molecular structure of [Et₂NCF_e(CO)₃]₂: an example of the division of an alkyne into two separate units by rupture of the CC bond. *Journal of the Chemical Society Chemical Communications*, **1977**, 30-31 16

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338	Au ₂₀ . Effect of a Strong Tetrahedral Field in a Spherical Concentric Bonding Shell Model. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5848-5853	3.8	15
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336	Binuclear iron boronyl carbonyls isoelectronic with the well-known decacarbonyldimanganese. <i>New Journal of Chemistry</i> , 2012 , 36, 1022	3.6	14
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334	Unsaturation and Variable Hapticity in Binuclear Azulene Iron Carbonyl Complexes. <i>Organometallics</i> , 2010 , 29, 630-641	3.8	14
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332	Mixed Sandwich Compounds C ₅ H ₅ MC ₈ H ₈ of the First-Row Transition Metals: Variable Hapticity of the Eight-Membered Ring. <i>Organometallics</i> , 2010 , 29, 1934-1941	3.8	14
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322	Unsaturation in Binuclear (Cyclobutadiene)cobalt Carbonyls with Axial and Perpendicular Structures: Comparison with Isoelectronic Binuclear Cyclopentadienyliron Carbonyls. <i>Organometallics</i> , 2007 , 26, 1393-1401	3.8	13

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