R Bruce King

List of Publications by Year in Descending Order

428 papers	6,934 citations	36 h-index	70 g-index
437 ext. papers	7,406 ext. citations	4.6 avg, IF	6.12 L-index

#	Paper	IF	Citations
428	Effect of methyl substituents on the preferred conformations of Bis(pentadienyl) open metallocenes. *Journal of the Indian Chemical Society*, **2022**, 99, 100352		
427	Carbon-hydrogen bond activation in bridging cyclobutadiene ligands in unsaturated binuclear vanadium carbonyl derivatives.. *Journal of Molecular Modeling*, **2022**, 28, 39	2	
426	Binuclear Cobalt Paddlewheel-Type Complexes: Relating Metal-Metal Bond Lengths to Formal Bond Orders. *Inorganic Chemistry*, **2021**, 60, 584-596	5.1	2
425	Mechanism for the Reaction of White Phosphorus with CpCr(CO) Leading Ultimately to the Triple-Decker Sandwich CpCr(□□P): A Theoretical Study. *Inorganic Chemistry*, **2021**, 60, 5955-5968	5.1	
424	Binuclear 1,3-diphosphacyclobutadiene vanadium carbonyls: Bending of the P2C2 ring in an unsaturated system with a vanadium-vanadium multiple bond. *Inorganica Chimica Acta*, **2021**, 519, 120249	2.7	1
423	Binuclear ethylenedithiolate iron carbonyls: A density functional theory study. *Inorganica Chimica Acta*, **2021**, 519, 120260	2.7	0
422	Fluorine Migration from Carbon to Iron and Fluorine□Iron Dative Bonds in Octafluorocyclohexadiene Iron Carbonyl Chemistry. *Organometallics*, **2021**, 40, 397-407	3.8	1
421	Iron-Iron Bond Lengths and Bond Orders in Diiron Lantern-Type Complexes with High Spin Ground States. *European Journal of Inorganic Chemistry*, **2021**, 2021, 848-860	2.3	3
420	Lantern-Type Divanadium Complexes with Bridging Ligands: Short Metal-Metal Bonds with High Multiple Bond Orders. *ChemPhysChem*, **2021**, 22, 2014-2024	3.2	1
419	Tetrahedral Cyclopentadienylmetal Carbonyl Clusters of Manganese and Chromium: A Theoretical Study. *Inorganic Chemistry*, **2021**, 60, 14557-14562	5.1	
418	Beyond the Wade-Mingos Rules: Deviations from Sphericality in Metallaborane Structures. *Structure and Bonding*, **2021**, 1	0.9	
417	The role of the phosphorus lone pair in the low-energy binuclear phospholyl vanadium carbonyl structures: comparison with cyclopentadienyl analogues. *Theoretical Chemistry Accounts*, **2021**, 140, 1	1.9	
416	Th@C, Th@C, Th@C, and Th@C: role of thorium encapsulation in determining spherical aromatic and bonding properties on medium-sized endohedral metallofullerenes. *Physical Chemistry Chemical Physics*, **2020**, 22, 23920-23928	3.6	5
415	Unusual effects of the bulky 1-norbornyl group in cobalt carbonyl chemistry: low-energy structures with agostic hydrogen atoms. *New Journal of Chemistry*, **2020**, 44, 8986-8995	3.6	
414	On the formation of spherical aromatic endohedral buckminsterfullerene. Evaluation of M@C (M = Cr, Mo, W) from relativistic DFT calculations. *Physical Chemistry Chemical Physics*, **2020**, 22, 14268-14275	3.6	3
413	Novel non-spherical deltahedra in tetramolybdaborane structures: Generation of low-energy structures by capping Mo4B4 cubes. *Polyhedron*, **2020**, 187, 114626	2.7	1
412	Bridging cyclobutadiene ligands with agostic hydrogen atoms in binuclear chromium carbonyl derivatives. *Journal of Organometallic Chemistry*, **2020**, 921, 121347	2.3	2

411	Perfluoroolefin complexes versus perfluorometallacycles and perfluorocarbene complexes in cyclopentadienylcobalt chemistry. *Physical Chemistry Chemical Physics*, **2020**, 22, 7616-7624	3.6	1
410	Structure Evolution of Transition Metal-doped Gold Clusters M@Au12 (M = 3d–5d): Across the Periodic Table. *Journal of Physical Chemistry C*, **2020**, 124, 7449-7457	3.8	10
409	Increasing the Ligand Field Strength in Butadiene Open Sandwich Compounds from the First to the Second Row Transition Metals. *ChemistrySelect*, **2020**, 5, 6350-6359	1.8	
408	Nonsphericity in diferratetracarbaboranes having 2n + 2 Wadean skeletal electrons: deviations from closo deltahedral geometries and high-energy kinetically stable isomers. *Physical Chemistry Chemical Physics*, **2020**, 22, 2437-2448	3.6	1
407	Understanding the singlet-triplet energy splittings in transition metal-capped carbon chains. *Physical Chemistry Chemical Physics*, **2020**, 22, 2858-2869	3.6	
406	Agostic Hydrogens in 1-Norbornyl Metal Cyclopentadienyl Structures. *European Journal of Inorganic Chemistry*, **2020**, 2020, 4180-4188	2.3	
405	Metal–metal bond distances and bond orders in dimanganese complexes with bidentate ligands: scope for some very short Mn–Mn bonds. *New Journal of Chemistry*, **2020**, 44, 12993-13006	3.6	3
404	P2S2-Bridged binuclear metal carbonyls from dimerization of coordinated thiophosphoryl groups: a theoretical study. *New Journal of Chemistry*, **2020**, 44, 12942-12948	3.6	1
403	Systematics of Atomic Orbital Hybridization of Coordination Polyhedra: Role of f Orbitals. *Molecules*, **2020**, 25,	4.8	2
402	Comparative Study of the Thermal Stabilities of the Experimentally Known High-Valent Fe(IV) Compounds Fe(1-norbornyl) and Fe(cyclohexyl). *Journal of Physical Chemistry A*, **2020**, 124, 6867-6876	2.8	2
401	Isocloso versus closo deltahedra in slightly hypoelectronic supraicosahedral 14-vertex dimetallaboranes with 28 skeletal electrons: relationship to icosahedral dimetallaboranes. *New Journal of Chemistry*, **2020**, 44, 16977-16984	3.6	2
400	The heavier pnictogen and chalcogen analogues of isocyanic and cyanic acids and their dimers: A high level ab initio study. *International Journal of Quantum Chemistry*, **2020**, 120, e25989	2.1	
399	Ligand conformations and spin states in sandwich-type complexes of the split (3+2) five-electron donor hydrocarbon ligand bicyclo[3.2.1]octa-2,6-dien-4-yl (bcod). *New Journal of Chemistry*, **2020**, 44, 6902-6915	3.6	2
398	1,3-Diphosphacyclobutadiene sandwich compounds as bidentate ligands in metal carbonyl chemistry: Binuclear chromium derivatives. *Inorganica Chimica Acta*, **2019**, 498, 119123	2.7	3
397	Tris(butadiene) Metal Complexes of the First-Row Transition Metals versus Coupling of Butadiene to Eight- and Twelve-Carbon Hydrocarbon Chains. *Journal of Physical Chemistry A*, **2019**, 123, 5542-5554	2.8	2
396	Coupling of fluoroborylene ligands in manganese carbonyl chemistry to give a difluorodiborene ligand. *New Journal of Chemistry*, **2019**, 43, 8220-8228	3.6	3
395	Higher spin states in some low-energy bis(tetramethyl-1,2-diaza-3,5-diborolyl) sandwich compounds of the first row transition metals: boraza analogues of the metallocenes. *New Journal of Chemistry*, **2019**, 43, 4497-4505	3.6	1
394	Segregation of tetracarbon units in low-energy tetracarbindane structures: Major differences from their aluminum and gallium analogs. *International Journal of Quantum Chemistry*, **2019**, 119, e25934	2.1	

393	Fluorine shifts from sulfur in dimethylaminodifluorosulfane complexes of cyclopentadienyl metal carbonyls of chromium, molybdenum, and tungsten. *Polyhedron*, **2019**, 163, 33-41	2.7	2
392	Alternative modes of bonding of C4F8 units in mononuclear and binuclear iron carbonyl complexes. *New Journal of Chemistry*, **2019**, 43, 6932-6942	3.6	1
391	Metal-metal interactions in binuclear cyclopentadienylmetal carbonyls: Extending insight from experimental work through computational studies. *Advances in Inorganic Chemistry*, **2019**, 3-32	2.1	3
390	Neutral Rhenadicarbaboranes with Re(CO)(NO) Vertices: A Theoretical Study of Building Blocks for Rhenacarborane-Based Drug Delivery Agents. *Molecules*, **2019**, 25,	4.8	1
389	The group 9 cyclopentadienylmetal cis-ethylenedithiolates as metallodithiolene ligands in metal carbonyl chemistry: analogies to benzene metal carbonyl complexes. *New Journal of Chemistry*, **2019**, 43, 12711-12718	3.6	
388	Comparison of binuclear phospholyl chromium carbonyl derivatives with their cyclopentadienyl analogues: Role of the phosphorus atom in ligand-metal bonding. *Inorganica Chimica Acta*, **2019**, 494, 194-203	2.7	2
387	Cationic gold clusters with eight valence electrons: possible spherical aromatic systems with Sigma holes. *Physical Chemistry Chemical Physics*, **2019**, 21, 17779-17785	3.6	2
386	Dual transition metal doped germanium clusters for catalysis of CO oxidation. *Journal of Alloys and Compounds*, **2019**, 806, 698-704	5.7	9
385	Unsaturation in binuclear iron carbonyl complexes of the split (3 + 2) five-electron donor hydrocarbon ligand bicyclo[3.2.1]octa-2,6-dien-4-yl: Role of agostic hydrogen atoms. *International Journal of Quantum Chemistry*, **2019**, 119, e26010	2.1	
384	Dispersion Effects in Stabilizing Organometallic Compounds: Tetra-1-norbornyl Derivatives of the First-Row Transition Metals as Exceptional Examples. *Journal of Physical Chemistry A*, **2019**, 123, 9514-9519	2.8	6
383	Spherical Closo Deltahedra with Surface Metal-Metal Multiple Bonding versus Oblate Deltahedra with Internal Metal-Metal Bonding in Dichromadicarbaborane Structures: The Nature of Stone's Icosahedral Dichromadicarbaborane. *Inorganic Chemistry*, **2019**, 58, 3825-3837	5.1	1
382	Heterobimetallic Chromium Manganese Carbonyl Nitrosyls: Comparison with Isoelectronic Homometallic Binuclear Chromium Carbonyl Nitrosyls and Manganese Carbonyls. *Inorganics*, **2019**, 7, 127	2.9	
381	The tetracapped truncated tetrahedron in 16-vertex tetrametallaborane structures: spherical aromaticity with an isocloso rather than a closo skeletal electron count. *Physical Chemistry Chemical Physics*, **2019**, 21, 22022-22030	3.6	4
380	The isocloso capped pentagonal bipyramid versus the closo bisdisphenoid in hypoelectronic eight-vertex metallaboranes having 16 skeletal electrons. *International Journal of Quantum Chemistry*, **2019**, 119, e25880	2.1	
379	Agostic hydrogen atoms versus cobalt-cobalt multiple bonding in binuclear borole cobalt carbonyls. *Inorganica Chimica Acta*, **2019**, 487, 448-455	2.7	1
378	[email´protected]50 as Higher Intermediates towards Large Endohedral Metallofullerenes: Theoretical Characterization, Aromatic and Bonding Properties from Relativistic DFT Calculations. *Journal of Physical Chemistry C*, **2019**, 123, 1429-1443	3.8	13
377	Single and double fluorine migration in third row transition metal dialkylaminodifluorosulfane complexes. *Inorganica Chimica Acta*, **2019**, 486, 332-339	2.7	3
376	Reversible complexation of ammonia by breaking a manganese-manganese bond in a manganese carbonyl ethylenedithiolate complex: a theoretical study of an unusual type of Lewis acid. *Dalton Transactions*, **2018**, 48, 324-332	4.3	4

375	Carbon-Hydrogen Activation in Zerovalent Bis(1,5-cyclooctadiene) Complexes of the First Row Transition Metals: A Theoretical Study. *Journal of Physical Chemistry A*, **2018**, 122, 3280-3286	2.8	1
374	Major differences between preferred tetracarbagallane and tetracarbalane structures. *Journal of Organometallic Chemistry*, **2018**, 864, 88-96	2.3	1
373	Butadiene as a ligand in open sandwich compounds. *Physical Chemistry Chemical Physics*, **2018**, 20, 5683-5691	3.6	3
372	Intermediates for Larger Endohedral Metallofullerenes: Theoretical Characterization of [email´protected]44 Species. *Journal of Physical Chemistry C*, **2018**, 122, 798-807	3.8	8
371	Aluminum-poor hexacarbalane structures: The transition from localized organoaluminum structures to delocalized polyhedra. *International Journal of Quantum Chemistry*, **2018**, 118, e25506	2.1	
370	Cyclopentadienyliron boronyl carbonyls as isoelectronic analogues of cyclopentadienylmanganese carbonyls except for boronyl ligand coupling reactions. *Inorganica Chimica Acta*, **2018**, 475, 8-17	2.7	1
369	Medium-sized [Formula: see text] (n = 14-20) clusters: a combined study of photoelectron spectroscopy and DFT calculations. *Journal of Physics Condensed Matter*, **2018**, 30, 354002	1.8	9
368	Energetics of Variable Hapticity of Carbocyclic Rings in Cyclopentadienylmetal Carbonyl Systems of the Second Row Transition Metals C5H5M(CO)nCmHm (M = Ru, Tc, Mo, Nb) Including Mechanistic Studies of Carbonyl Dissociation. *Organometallics*, **2018**, 37, 2630-2639	3.8	1
367	Group 9 metallatelluraboranes: Comparison with their sulfur analogues. *Journal of Organometallic Chemistry*, **2018**, 865, 145-151	2.3	
366	Polyhedral Trimetallaboranes of the Group 9 Metals: Isocloso versus Capped and Uncapped Closo Deltahedra. *Organometallics*, **2018**, 37, 1845-1851	3.8	2
365	Metal–Metal Multiple Bonding in Dimetallaboranes **2018**, 1-20		
364	Metal–metal bonding in deltahedral dimetallaboranes and trimetallaboranes: a density functional theory study. *Pure and Applied Chemistry*, **2018**, 90, 643-652	2.1	
363	Binuclear pentalene titanium carbonyls involved in the deoxygenation of carbon dioxide. *Journal of Organometallic Chemistry*, **2018**, 867, 201-207	2.3	2
362	Binuclear pentalene titanium carbonyls: Comparison with related cyclopentadienyltitanium carbonyls. *International Journal of Quantum Chemistry*, **2018**, 118, e25762	2.1	
361	Metal-Metal (MM) Bond Distances and Bond Orders in Binuclear Metal Complexes of the First Row Transition Metals Titanium Through Zinc. *Chemical Reviews*, **2018**, 118, 11626-11706	68.1	69
360	Revisit of large-gap Si clusters encapsulating group-IV metal atoms (Ti, Zr, Hf). *Journal of Computational Chemistry*, **2018**, 39, 2268-2272	3.5	10
359	CCl, a planar aromatic fullerene. Computational study of C-NMR chemical shift anisotropy patterns and aromatic properties. *Physical Chemistry Chemical Physics*, **2018**, 20, 26325-26332	3.6	3
358	Most favorable cumulenic structures in iron-capped linear carbon chains are short singlet odd-carbon dications: a theoretical view. *Physical Chemistry Chemical Physics*, **2018**, 20, 15496-15506	3.6	5

357	Tetranuclear iron carbonyl complexes with a central tin atom: relationship to iron carbonyl carbides. *New Journal of Chemistry*, **2018**, 42, 10898-10905	3.6	
356	Boron monoxide dimer as a building block for boroxine based buckyballs and related cages: a theoretical study. *Chemical Communications*, **2017**, 53, 3239-3241	5.8	5
355	Binuclear chromium carbonyl complexes of methylaminobis(difluorophosphine): metal–metal bonds versus four-electron donor bridging carbonyl groups. *New Journal of Chemistry*, **2017**, 41, 2625-2635	3.6	3
354	Structures and electronic properties of BSi (n = 4-10) clusters: A combined ab initio and experimental study. *Journal of Chemical Physics*, **2017**, 146, 044306	3.9	24
353	Au20. Effect of a Strong Tetrahedral Field in a Spherical Concentric Bonding Shell Model. *Journal of Physical Chemistry C*, **2017**, 121, 5848-5853	3.8	15
352	Hexacarbalane Structures with 2n + 8 Skeletal Electrons: Decorating an Aluminum Cube with Carbon Atoms. *Organometallics*, **2017**, 36, 1019-1026	3.8	2
351	On the formation of smaller p-block endohedral fullerenes: Bonding analysis in the E@C (E = Si, Ge, Sn, Pb) series from relativistic DFT calculations. *Journal of Computational Chemistry*, **2017**, 38, 1661-1667	3.5	14
350	Heavier Carbon Subchalcogenides as C Sources for Tungsten-Capped Cumulenes: A Theoretical Study. *Inorganic Chemistry*, **2017**, 56, 5567-5576	5.1	5
349	Boron clusters with 46, 48, and 50 atoms: competition among the core-shell, bilayer and quasi-planar structures. *Nanoscale*, **2017**, 9, 13905-13909	7.7	35
348	Aromatic and antiaromatic spherical structures: use of long-range magnetic behavior as an aromatic indicator for bare icosahedral [Al@Al] and [Si] clusters. *Physical Chemistry Chemical Physics* , **2017**, 19, 15667-15670	3.6	21
347	Structures of dimetallocenes M2(C5H5)2 (M = Zn, Cu, Ni, Co, Fe) and their perfluorinated derivatives. *New Journal of Chemistry*, **2017**, 41, 5924-5933	3.6	1
346	Metal–metal bonding in biscycloheptatrienyl dimetal compounds of the second-row transition metals. *International Journal of Quantum Chemistry*, **2017**, 117, e25374	2.1	
345	Hypoelectronicity and Chirality in Dimetallaboranes of Group 9 Metals. *Inorganic Chemistry*, **2017**, 56, 351-358	5.1	1
344	Enhanced Relative Stability of Metallabenzenes versus Metallocenes upon Ring Perfluorination: Nickel, Palladium, and Platinum Systems. *European Journal of Inorganic Chemistry*, **2017**, 2017, 4714-4721	2.3	1
343	Phosphaethynolate Dimerization and Carbonyl Migration in Cyclopentadienyliron Carbonyl Systems: A Theoretical Study. *Organometallics*, **2017**, 36, 4111-4122	3.8	3
342	Analogies between Vanadoborates and Planar Aromatic Hydrocarbons: A High-Spin Analogue of Aromaticity. *Materials*, **2017**, 11,	3.5	2
341	Paramagnetism in Metallacarboranes: The Polyhedral Chromadicarbaborane Systems. *Inorganic Chemistry*, **2017**, 56, 11059-11065	5.1	2
340	Novel non-spherical deltahedra in tritungstaboranes related to the experimentally known Cp*3W3(H)B8H8. *New Journal of Chemistry*, **2017**, 41, 10640-10651	3.6	4

339	Deviations from the Most Spherical Deltahedra in Rhenatricarbaboranes Having 2n + 2 Wadean Skeletal Electrons. *Inorganic Chemistry*, **2017**, 56, 15015-15025	5.1	2
338	Binuclear Cyclopentadienylmetal Methylene Sulfur Dioxide Complexes of Rhodium and Iridium Related to a Photochromic Metal Dithionite Complex. *Inorganic Chemistry*, **2017**, 56, 14486-14493	5.1	2
337	Formation of Spherical Aromatic Endohedral Metallic Fullerenes. Evaluation of Magnetic Properties of M@C (M = Ti, Zr, and Hf) from DFT calculations. *Inorganic Chemistry*, **2017**, 56, 15251-15258	5.1	17
336	Binuclear chromium carbonyl complexes of the highly basic small bite bidentate diphosphine bis(dimethylphosphino)methane. *Polyhedron*, **2017**, 138, 194-205	2.7	4
335	Unsaturated trinuclear iron fluoroborylene complexes. *Journal of Molecular Modeling*, **2017**, 23, 123	2	1
334	and Au6 clusters: Superatomic molecules bearing an SP3-hybrid Au6 core. *International Journal of Quantum Chemistry*, **2017**, 117, e25331	2.1	12
333	Evaluation of bonding, electron affinity, and optical properties of M@C (M = Zr, Hf, Th, and U): Role of d- and f-orbitals in endohedral fullerenes from relativistic DFT calculations. *Journal of Computational Chemistry*, **2017**, 38, 44-50	3.5	18
332	Competition between phosphorus lone pairs and ring π-systems in binding to transition metals: Binuclear diphosphacyclobutadiene cobalt carbonyl derivatives. *Inorganica Chimica Acta*, **2017**, 455, 41-51	2.7	4
331	Intermediates for methyl carbon-hydrogen activation in binuclear dimethylfulvene ruthenium carbonyl complexes. *Journal of Organometallic Chemistry*, **2017**, 827, 112-118	2.3	2
330	Metal-metal multiple bonds with "half-bond" components in paramagnetic organometallics of f-block metals: Cyclopentadienyluranium carbonyls as molecular relatives of diuranium. *Journal of Organometallic Chemistry*, **2017**, 827, 105-111	2.3	2
329	Fluorine shifts from sulfur to metal in difluorosulfane complexes of cyclopentadienyl iron carbonyl: incompatibility of sulfur–fluorine bonds with iron–iron bonds. *RSC Advances*, **2016**, 6, 18874-18880	3.7	2
328	The hapticity of the acenaphthylene ligand in its mononuclear, binuclear, and trinuclear iron carbonyl complexes. *New Journal of Chemistry*, **2016**, 40, 8760-8767	3.6	
327	Binuclear cyclopentadienylmetal carbonyl hydrides of iridium, osmium, and rhenium: The effect of electron count on the preferred structures. *Inorganica Chimica Acta*, **2016**, 453, 310-320	2.7	
326	Binuclear iron carbonyl complexes of thialene. *RSC Advances*, **2016**, 6, 82661-82668	3.7	4
325	Binuclear rhenium carbonyl nitrosyls related to dicobalt octacarbonyl and their decarbonylation products. *Journal of Molecular Modeling*, **2016**, 22, 157	2	
324	Effect of metal complexation on the equilibrium between methylphosphepine and methylphosphanorcaradiene and their benzo analogues. *New Journal of Chemistry*, **2016**, 40, 7804-7813	3.6	
323	Tetracarbaboranes: nido structures without bridging hydrogens. *Dalton Transactions*, **2016**, 45, 18541-18551	4.3	1
322	Reductive coupling of carbon monoxide to glycolaldehyde and hydroxypyruvaldehyde polyanions in binuclear cyclopentadienyl lanthanum and lutetium derivatives: analogies to cyclooctatetraene thorium chemistry. *Theoretical Chemistry Accounts*, **2016**, 135, 1	1.9	1

321	Tetracarbalane structures: nido polyhedra and non-spherical deltahedra. *Dalton Transactions*, **2016**, 45, 11528-39	4.3	5
320	1,3-Diphosphacyclobutadiene as a ligand in binuclear manganese carbonyl derivatives: Role of the ring phosphorus atoms. *Inorganica Chimica Acta*, **2016**, 446, 116-123	2.7	3
319	Molybdatricarbaboranes as examples of isocloso metallaborane deltahedra with three carbon vertices. *Journal of Computational Chemistry*, **2016**, 37, 64-9	3.5	1
318	Binuclear phospholyl iron carbonyls: The limited role of the phosphorus atom in metal complexation. *Inorganica Chimica Acta*, **2016**, 445, 79-86	2.7	5
317	Binuclear nickel carbonyls with the small bite chelating diphosphine ligands methylaminobis(difluorophosphine) and methylenebis(dimethylphosphine): formation of NiNi double bonds in preference to ligand cleavage. *RSC Advances*, **2016**, 6, 16131-16140	3.7	5
316	Binuclear cyclooctatetraeneiron carbonyl complexes: examples of fluxionality and valence tautomerism. *New Journal of Chemistry*, **2016**, 40, 1521-1528	3.6	8
315	Biicosahedral metallaboranes: aromaticity in metal derivatives of three-dimensional analogues of naphthalene. *Physical Chemistry Chemical Physics*, **2016**, 18, 11707-10	3.6	3
314	Cyclopentadienylironphosphacarboranes: fragility of polyhedral edges in the 11-vertex system. *RSC Advances*, **2016**, 6, 1122-1128	3.7	3
313	Bis(azulene) "submarine" metal dimer sandwich compounds (C10H8)2M2(M = Ti, V, Cr, Mn, Fe, Co, Ni): Parallel and opposed orientations. *Journal of Computational Chemistry*, **2016**, 37, 250-60	3.5	4
312	Pairing of carbon atoms in low-energy deltahedral dicarbagallane structures derived from vertex expansion of closo deltahedra. *Journal of Organometallic Chemistry*, **2016**, 819, 173-181	2.3	3
311	Unsaturation in binuclear heterometallic carbonyls: the cyclopentadienyliron manganese carbonyl CpFeMn(CO)n system as a hybrid of the Cp2Fe2(CO)n and Mn2(CO)n systems. *New Journal of Chemistry*, **2016**, 40, 7482-7492	3.6	3
310	Hydrogen migration in hypoelectronic biicosahedral metallaborane structures. *RSC Advances*, **2016**, 6, 87096-87102	3.7	
309	Bridging hydrogen atoms versus irontron multiple bonding in binuclear borole iron carbonyls. *Inorganica Chimica Acta*, **2016**, 447, 105-112	2.7	3
308	Tetrafluoroethylene versus trifluoromethylfluorocarbene complexes of cobalt carbonyl. *Journal of Organometallic Chemistry*, **2016**, 811, 91-97	2.3	
307	Dimetallaborane analogues of the octaboranes of the type Cp2M2B6H10: structural variations with changes in the skeletal electron count. *Dalton Transactions*, **2016**, 45, 9354-62	4.3	1
306	Cleavage of carbon suboxide to give ketenylidene and carbyne ligands at a reactive tungsten site: a theoretical mechanistic study. *RSC Advances*, **2016**, 6, 4014-4021	3.7	6
305	Ligand conformations and spin states in open metallocenes of the first row transition metals having U-shaped 2,4-dimethylpentadienyl ligands. *New Journal of Chemistry*, **2016**, 40, 8511-8521	3.6	5
304	Differences between carbon suboxide and its heavier congeners as ligands in transition metal complexes: a theoretical study. *New Journal of Chemistry*, **2016**, 40, 9486-9493	3.6	4

303	Novel non-spherical deltahedra in trirhenaborane structures. *New Journal of Chemistry*, **2016**, 40, 7564-7572	3.6	4
302	Polyhedral cobaltadiselenaboranes: nido structures without bridging hydrogens. *RSC Advances*, **2016**, 6, 53635-53642	3.7	1
301	Energetic preference of dative fluorinemanganese bonds over direct manganesemanganese bonds in binuclear hexafluorocyclopentadiene manganese carbonyls. *Journal of Fluorine Chemistry*, **2016**, 188, 50-57	2.1	2
300	Binuclear cyclopentadienylosmium hydride chemistry: A stable quadruply bridged structure. *Inorganica Chimica Acta*, **2015**, 434, 60-66	2.7	2
299	Carbonyl migration from phosphorus to the metal in binuclear phosphaketenyl metal carbonyl complexes to give bridging diphosphido complexes. *New Journal of Chemistry*, **2015**, 39, 1390-1403	3.6	9
298	Cyclopentadienylcobalt azaboranes violating the Wade–Mingos rules: a degree 3 vertex for the nitrogen atom. *RSC Advances*, **2015**, 5, 56885-56890	3.7	2
297	Binuclear cyclopentadienyliridium hydride chemistry: Terminal versus bridging hydride and cyclopentadienyl ligands. *Inorganica Chimica Acta*, **2015**, 436, 94-102	2.7	2
296	Theoretical studies on the desulfurization of benzothiophene (thianaphthene) and thienothiophene (thiophthene) by carbon–sulfur bond cleavage: binuclear iron carbonyl intermediates. *New Journal of Chemistry*, **2015**, 39, 7040-7045	3.6	2
295	Sulfur difluoride and sulfur monofluoride as ligands in iron carbonyl chemistry. *New Journal of Chemistry*, **2015**, 39, 4939-4947	3.6	5
294	The siliconyl, boronyl, and iminoboryl ligands as analogues of the well-known carbonyl ligand: predicted reactivity towards dipolar cyclooligomerization in iron/cobalt carbonyl complexes. *RSC Advances*, **2015**, 5, 35558-35563	3.7	10
293	Trinuclear and tetranuclear cyclopentadienyl vanadium carbonyl clusters: unusual carbonyl groups in Herrmann's (C5H5)4V4(CO)4 exhibiting low CO stretching frequencies. *New Journal of Chemistry*, **2015**, 39, 4759-4765	3.6	1
292	Manganese-centered ten-vertex germanium clusters: the strong field Ge10 ligand encapsulating a transition metal. *Journal of Coordination Chemistry*, **2015**, 68, 3485-3497	1.6	2
291	Controlling the Reactivity of the Boronyl Group in Platinum Complexes toward Cyclodimerization: A Theoretical Survey. *Inorganic Chemistry*, **2015**, 54, 10281-6	5.1	6
290	B28: the smallest all-boron cage from an ab initio global search. *Nanoscale*, **2015**, 7, 15086-90	7.7	60
289	Binuclear 1,2-diaza-3,5-diborolyl iron carbonyls: Effect of replacing ring CC units with isoelectronic BN units. *Inorganica Chimica Acta*, **2015**, 425, 169-175	2.7	2
288	Phosphorus as a heteroatom in metallaborane structures: Cyclopentadienylcobalt diphosphaboranes. *Polyhedron*, **2015**, 85, 933-940	2.7	5
287	Nonspherical Deltahedra in Low-Energy Dicarbalane Structures Testing the Wade-Mingos Rules: The Regular Icosahedron Is Not Favored for the 12-Vertex Dicarbalane. *Inorganic Chemistry*, **2015**, 54, 11377-84	5.1	10
286	Major differences between trifluorophosphine and carbonyl ligands in binuclear cyclopentadienyliron complexes. *New Journal of Chemistry*, **2015**, 39, 3708-3718	3.6	1

285	Pathways to the polymerization of boron monoxide dimer to give low-density porous materials containing six-membered boroxine rings. *Inorganic Chemistry*, **2015**, 54, 2910-5	5.1	10
284	The presence of cobaltdibismuth triangular faces in the lowest energy deltahedral cobaltadibismaborane polyhedra: Major differences from their cobaltadiphosphaborane analogues. *Journal of Organometallic Chemistry*, **2015**, 798, 252-256	2.3	1
283	Nickelacyclopentadienylchromium tricarbonyl unit as a bulky pseudohalogen in cyclopentadienylchromium complexes leading to low-energy high-spin structures. *Inorganic Chemistry*, **2015**, 54, 5309-15	5.1	1
282	Density functional theory study of novel thioboronyl coupling reactions in unsaturated binuclear iron carbonyl derivatives. *Inorganica Chimica Acta*, **2015**, 428, 44-50	2.7	1
281	New titanium carbonyls: Ti2(CO)10, Ti2(CO)11, and Ti2(CO)12. *Journal of Physical Chemistry A*, **2015**, 119, 5224-32	2.8	2
280	Binuclear cyclopentadienylrhenium hydride chemistry: terminal versus bridging hydride and cyclopentadienyl ligands. *Journal of Molecular Modeling*, **2015**, 21, 7	2	2
279	Molecular orbital interpretation of the metal–metal multiple bonding in coaxial dibenzene dimetal compounds of iron, manganese, and chromium. *Theoretical Chemistry Accounts*, **2014**, 133, 1	1.9	1
278	The diversity of structural features in binuclear cyclobutadiene manganese carbonyls: Relationship to homoleptic manganese carbonyls and cyclopentadienyl chromium carbonyls. *Polyhedron*, **2014**, 73, 146-153	2.7	10
277	Deltahedral ferratricarbaboranes: analogues of ferrocene. *Dalton Transactions*, **2014**, 43, 4993-5000	4.3	9
276	Six-Vertex Hydrogen-Rich Cp2M2B4H8 Dimetallaboranes of the Second- and Third-Row Transition Metals: Effects of Skeletal Electron Count on Preferred Polyhedra. *Organometallics*, **2014**, 33, 6443-6451	3.8	6
275	A binuclear trimethylenemethane cobalt carbonyl providing the first example of a low-energy perpendicular structure with acyclic hydrocarbon ligands. *New Journal of Chemistry*, **2014**, 38, 4275-4281	3.6	3
274	Metal triangles versus metal chains and terminal versus bridging hydrogen atoms in trinuclear osmium carbonyl hydride chemistry. *New Journal of Chemistry*, **2014**, 38, 1433-1440	3.6	2
273	From spiropentane to butterfly and tetrahedral structures in tetranuclear iron carbonyl carbide chemistry. *New Journal of Chemistry*, **2014**, 38, 3762-3769	3.6	3
272	The facile coupling of carbon monochalcogenides to ethenedichalcogenone ligands in binuclear iron carbonyl derivatives: a theoretical study. *New Journal of Chemistry*, **2014**, 38, 4282-4289	3.6	6
271	Dinickelametallocenes: Sandwich Compounds of the First-Row Transition Metals (M = Fe, Co, Ni) with Two Pentahapto Planar Nickelacycle Ligands. *Organometallics*, **2014**, 33, 4410-4416	3.8	8
270	Coupling of trifluoromethyl isocyanide ligands in binuclear iron carbonyl complexes. *Journal of Fluorine Chemistry*, **2014**, 166, 34-43	2.1	1
269	Flyover Compounds and Bridging Bent Benzene Derivatives as Intermediates in the Cobalt Carbonyl Cyclotrimerization of Alkynes. *Organometallics*, **2014**, 33, 2352-2357	3.8	5
268	Discovery of a silicon-based ferrimagnetic wheel structure in V(x)Si(12)(-) (x = 1-3) clusters: photoelectron spectroscopy and density functional theory investigation. *Nanoscale*, **2014**, 6, 14617-21	7.7	76

267	The hapticity of octafluorocyclooctatetraene in its first-row mononuclear transition metal carbonyl complexes: effect of perfluorination. *Transition Metal Chemistry*, **2014**, 39, 95-109	2.1	4
266	Preference for trihapto/monohapto over bis(dihapto) metal–ligand bonding in binuclear hexafluorocyclopentadiene cobalt carbonyls. *Inorganica Chimica Acta*, **2014**, 416, 157-163	2.7	1
265	Design of three-shell icosahedral matryoshka clusters A@B12@A20 (A = Sn, Pb; B = Mg, Zn, Cd, Mn). *Scientific Reports*, **2014**, 4, 6915	4.9	20
264	Metallocene versus Metallabenzene Isomers of Nickel, Palladium, and Platinum. *Organometallics*, **2014**, 33, 7193-7198	3.8	13
263	The diversity of iron–sulfur bonding in binuclear iron carbonyl sulfides. *Canadian Journal of Chemistry*, **2014**, 92, 750-757	0.9	1
262	Modeling intermediates in carbon monoxide coupling reactions using cyclooctatetraene thorium derivatives. *New Journal of Chemistry*, **2014**, 38, 6031-6040	3.6	6
261	Iron carbonyl thioboronyls: effect of substitution of sulfur for oxygen in the viability of binuclear complexes toward dissociation reactions. *Theoretical Chemistry Accounts*, **2014**, 133, 1	1.9	4
260	The Buildup of Eight-Vertex Tetrametallaborane Clusters: Bisdisphenoidal versus Tetracapped Tetrahedral Structures. *European Journal of Inorganic Chemistry*, **2014**, 2014, 3614-3618	2.3	1
259	Formation of difluorosulfane complexes of the third row transition metals by sulfur-to-metal fluorine migration in trifluorosulfane metal complexes: the anomaly of trifluorosulfane iridium tricarbonyl. *Inorganic Chemistry*, **2014**, 53, 12635-42	5.1	9
258	Diverse bonding modes of the pentalene ligand in binuclear cobalt carbonyl complexes. *Inorganica Chimica Acta*, **2014**, 415, 111-119	2.7	4
257	Dimetallaboranes with Polyhedral Surface Metal–Metal Multiple Bonds: Deltahedral Dirhenaboranes with Pentalenedirhenium Vertices. *Organometallics*, **2013**, 32, 4002-4008	3.8	8
256	Juxtaposition of the strong back-bonding carbonyl ligand and weak back-bonding acetonitrile ligand in binuclear iron complexes. *Transition Metal Chemistry*, **2013**, 38, 617-625	2.1	2
255	Effects of the strongly electron-withdrawing trifluoromethyl group in cobalt carbonyl chemistry. *Journal of Fluorine Chemistry*, **2013**, 146, 37-45	2.1	2
254	Binuclear methylaminobis(difluorophosphine) iron carbonyls: phosphorus–nitrogen bond cleavage in preference to iron–iron multiple bond formation. *New Journal of Chemistry*, **2013**, 37, 3294	3.6	6
253	Binuclear hexafluorocyclopentadiene iron carbonyls: bis(dihapto) versus trihapto–monohapto bonding in iron–iron bonded structures. *New Journal of Chemistry*, **2013**, 37, 2902	3.6	6
252	Diverse bonding modes of the tetramethyleneethane ligand in binuclear iron carbonyl derivatives. *New Journal of Chemistry*, **2013**, 37, 709-716	3.6	1
251	Metallametallocenes: Sandwich Compounds of the First-Row Transition Metals (M, M? = Fe, Co, Ni) Containing a Metallacyclopentadiene Ring. *European Journal of Inorganic Chemistry*, **2013**, 2013, 2070-2077	2.3	6
250	Five-electron donor bridging thionitrosyl groups in unsaturated binuclear manganese carbonyl derivatives. *Inorganica Chimica Acta*, **2013**, 406, 119-129	2.7	3

249	Comparison of the difluoromethylene and carbonyl ligands in binuclear iron complexes. *Journal of Fluorine Chemistry*, **2013**, 151, 12-19	2.1	6
248	The versatility of the boronyl (BO) and fluoroborylene (BF) ligands in binuclear cyclopentadienylpalladium chemistry. *Inorganica Chimica Acta*, **2013**, 406, 285-292	2.7	3
247	Iron–iron bonding versus iron–phosphorus bonding in binuclear diphosphacyclobutadiene iron carbonyl complexes. *Polyhedron*, **2013**, 65, 298-307	2.7	4
246	Methylborabenzene ligands in binuclear iron carbonyl derivatives: High spin states and iron–iron multiple bonding. *Journal of Organometallic Chemistry*, **2013**, 747, 106-112	2.3	1
245	Metal–metal interactions in deltahedral dirhoda- and diiridadicarbaboranes. *Inorganica Chimica Acta*, **2013**, 397, 83-87	2.7	17
244	A new type of sandwich compound: homoleptic bis(trimethylenemethane) complexes of the first row transition metals. *New Journal of Chemistry*, **2013**, 37, 1545	3.6	12
243	Coupling of chalcocarbonyl ligands (CE: E = S, Se, Te) on an iron carbonyl site: effect of the chalcogen. *Chemical Communications*, **2013**, 49, 5028-30	5.8	5
242	Extreme metal carbonyl back bonding in cyclopentadienylthorium carbonyls generates bridging C2O2 ligands by carbonyl coupling. *Inorganic Chemistry*, **2013**, 52, 6893-904	5.1	13
241	Hypoelectronic diruthenaboranes and diosmaboranes having eight to twelve vertices: capped isocloso and bicapped closo structures. *New Journal of Chemistry*, **2013**, 37, 2528	3.6	2
240	Coaxial versus perpendicular structures for a range of binuclear cyclopentadienylpalladium derivatives. *New Journal of Chemistry*, **2013**, 37, 775	3.6	12
239	Alkyne Dichotomy: Splitting of Bis(dialkylamino)acetylenes, Dimethoxyacetylene, Bis(methylthio)acetylene, and Their Heavier Congeners To Give Carbyne Ligands in Iron Carbonyl Derivatives. *Organometallics*, **2013**, 32, 88-94	3.8	4
238	Kinetic versus thermodynamic isomers of the deltahedral dicobaltadicarbaboranes having nine to 12 vertices. *Polyhedron*, **2012**, 33, 319-326	2.7	6
237	Fluoroborylene ligands in binuclear ruthenium carbonyls: Comparison with their iron analogues. *Polyhedron*, **2012**, 38, 44-49	2.7	3
236	New Structural Features in Tetranuclear Iron Carbonyl Thiocarbonyls: Exotriangular Iron Atoms and Six-Electron-Donating Thiocarbonyl Groups Bridging Four Iron Atoms. *European Journal of Inorganic Chemistry*, **2012**, 2012, 1104-1113	2.3	4
235	Chemical bonding in oblatonido ditantalaboranes and related compounds. *Theoretical Chemistry Accounts*, **2012**, 131, 1	1.9	8
234	Binuclear iron boronyl carbonyls isoelectronic with the well-known decacarbonyldimanganese. *New Journal of Chemistry*, **2012**, 36, 1022	3.6	14
233	Structural changes upon replacing carbonyl groups with thiocarbonyl groups in first row transition metal derivatives: new insights. *Physical Chemistry Chemical Physics*, **2012**, 14, 14743-55	3.6	4
232	Au102+: A Tetrahedral Cluster Exhibiting Spherical Aromaticity. *Journal of Physical Chemistry Letters*, **2012**, 3, 3335-3337	6.4	19

231	Five-electron donor versus seven-electron donor bridging phospholyl rings in binuclear cobalt carbonyl derivatives. *Journal of Organometallic Chemistry*, **2012**, 701, 1-7	2.3	6
230	The prevalence of isocloso deltahedra in low-energy hypoelectronic metalladicarbaboranes with a single metal vertex: manganese and rhenium derivatives. *Dalton Transactions*, **2012**, 41, 7073-81	4.3	12
229	Hypoelectronic dirhenaboranes having eight to twelve vertices: internal versus surface rhenium-rhenium bonding. *Inorganic Chemistry*, **2012**, 51, 7609-16	5.1	25
228	The Quest for Metal-Metal Quadruple and Quintuple Bonds in Metal Carbonyl Derivatives: Nb2(CO)9 and Nb2(CO)8. *Journal of Chemical Theory and Computation*, **2012**, 8, 862-74	6.4	14
227	Nine-Electron Donor Bridging Indenyl Ligands in Binuclear Iron Carbonyls. *Organometallics*, **2012**, 31, 5005-5017	3.8	7
226	Binuclear dimethylaminoborole iron carbonyls: iron–iron multiple bonding versus nitrogen→iron dative bonding. *Theoretical Chemistry Accounts*, **2012**, 131, 1	1.9	4
225	The sphericity of the diverse 10-vertex polyhedra found in bare post-transition metal clusters: germanium clusters with interstitial magnesium atoms as model systems. *Theoretical Chemistry Accounts*, **2012**, 131, 1	1.9	1
224	Binuclear fluoroborylene (BF) cobalt carbonyls: Comparison with homoleptic cobalt carbonyls. *Inorganica Chimica Acta*, **2012**, 388, 184-192	2.7	5
223	Open chains versus closed rings: Comparison of binuclear butadiene cobalt carbonyls with cyclic hydrocarbon analogs. *Inorganica Chimica Acta*, **2012**, 388, 22-32	2.7	6
222	Binuclear pentalene manganese carbonyl complexes: conventional trans and unconventional cis structures. *Molecular Physics*, **2012**, 110, 1637-1650	1.7	8
221	Unsaturation in binuclear iron trifluorophosphine carbonyl derivatives: comparison with binary iron carbonyls. *Journal of Coordination Chemistry*, **2012**, 65, 2459-2477	1.6	4
220	Trifluorosulfane ligand as an analogue of the nitrosyl ligand: highly exothermic fluorine transfer reactions from sulfur to metal in the chemistry of SF3 metal carbonyls of the first row transition metals. *Inorganic Chemistry*, **2011**, 50, 2824-35	5.1	13
219	Limited occurrence of isocloso deltahedra with 9 to 12 vertices in low-energy hypoelectronic diferradicarbaborane structures. *Inorganic Chemistry*, **2011**, 50, 9571-7	5.1	23
218	Binuclear cyclopentadienylmetal cyclooctatetraene derivatives of the first row transition metals: effects of ring conformation on the bonding of an eight-membered carbocyclic ring to a pair of metal atoms. *Journal of Physical Chemistry A*, **2011**, 115, 3133-43	2.8	4
217	Analogies between binuclear phospholyl and cyclopentadienylmanganese carbonyl complexes: seven-electron donor bridging phospholyl rings. *New Journal of Chemistry*, **2011**, 35, 1117	3.6	13
216	Mononuclear bis(pentalene) sandwich compounds of the first-row transition metals: variable hapticity of the pentalene rings and intramolecular coupling reactions. *New Journal of Chemistry*, **2011**, 35, 1718	3.6	7
215	Copper formal oxidation states above +1 in organometallic chemistry: the possibility of synthesizing cyclopentadienylcopper chlorides by oxidative addition reactions. *Theoretical Chemistry Accounts*, **2011**, 128, 367-376	1.9	
214	Unsaturation in homoleptic tetranuclear iridium carbonyls: a comparison of density functional theory with the MP2 method in metal cluster structures. *Theoretical Chemistry Accounts*, **2011**, 130, 393-400	1.9	4

213	Binuclear Carbonylheptalenechromium Complexes: Partition of Heptalene into a Complexed Heptafulvene Subunit and an Uncomplexed 1,3-Diene Subunit for Coordination to a Multiply Bonded Pair of Chromium Atoms. *European Journal of Inorganic Chemistry*, **2011**, 2011, 3127-3137	2.3	1
212	Metal–Metal Bonding in Bis(alkylthio)hexacarbonyldicobalt Complexes: Open Structures vs. Butterfly and Tetrahedrane Structures. *European Journal of Inorganic Chemistry*, **2011**, 2011, 1967-1973	2.3	1
211	Binuclear Pentalene Iron Carbonyl Complexes. *European Journal of Inorganic Chemistry*, **2011**, 2011, 2746-2755	2.3	9
210	Edge-Bridging and Face-Bridging Hydrogen Atoms in Trinuclear Rhenium Carbonyl Hydrides. *European Journal of Inorganic Chemistry*, **2011**, 2011, 4626-4636	2.3	2
209	Open chains versus closed rings: comparison of binuclear butadiene iron carbonyls with their cyclobutadiene analogues. *New Journal of Chemistry*, **2011**, 35, 920	3.6	8
208	Binuclear methylborole iron carbonyls: iron-iron multiple bonds and perpendicular structures. *Inorganic Chemistry*, **2011**, 50, 1351-60	5.1	10
207	Endohedral beryllium atoms in ten-vertex germanium clusters: effect of a small interstitial atom on the cluster geometry. *Journal of Physical Chemistry A*, **2011**, 115, 2847-52	2.8	11
206	Coupling of Fluoroborylene Ligands To Give a Viable Cyclopentadienyliron Carbonyl Complex of Difluorodiborene (FB?BF). *Organometallics*, **2011**, 30, 5084-5087	3.8	19
205	A HALF-CENTURY OF CYCLOHEPTATRIENYLMETAL CHEMISTRY: EXPERIMENT AND THEORY. *Comments on Inorganic Chemistry*, **2010**, 31, 95-103	3.9	
204	Unsaturation and Variable Hapticity in Binuclear Azulene Iron Carbonyl Complexes. *Organometallics* , **2010**, 29, 630-641	3.8	14
203	The mixed sandwich compounds C5H5MC7H7 of the first row transition metals: variable hapticity of the seven-membered ring. *Molecular Physics*, **2010**, 108, 883-894	1.7	7
202	Unsaturation and variable hapticity in binuclear azulene manganese carbonyl complexes. *Dalton Transactions*, **2010**, 39, 10702-11	4.3	6
201	Trifluorophosphine as a bridging ligand in homoleptic binuclear nickel complexes. *Journal of Physical Chemistry A*, **2010**, 114, 8896-901	2.8	10
200	Possibilities for titanium-titanium multiple bonding in binuclear cyclopentadienyltitanium carbonyls: 16-electron metal configurations and four-electron donor bridging carbonyl groups as alternatives. *Inorganic Chemistry*, **2010**, 49, 1961-75	5.1	14
199	Stabilization of binuclear chromium carbonyls by substitution of thiocarbonyl groups for carbonyl groups: nearly linear structures for Cr(2)(CS)(2)(CO)(9). *Journal of Physical Chemistry A*, **2010**, 114, 486-97	2.8	10
198	Major difference between the isoelectronic fluoroborylene and carbonyl ligands: triply bridging fluoroborylene ligands in Fe3(BF)3(CO)9 isoelectronic with Fe3(CO)12. *Inorganic Chemistry*, **2010**, 49, 2996-3001	5.1	8
197	Mixed Sandwich Compounds C5H5MC8H8 of the First-Row Transition Metals: Variable Hapticity of the Eight-Membered Ring. *Organometallics*, **2010**, 29, 1934-1941	3.8	14
196	Binuclear and trinuclear chromium carbonyls with linear bridging carbonyl groups: isocarbonyl versus carbonyl bonding of carbon monoxide ligands. *Journal of Physical Chemistry A*, **2010**, 114, 4672-9	2.8	11

195	Metal-metal bonding in binuclear metal carbonyls with three bridging methylaminobis(difluorophosphine) ligands: iron, cobalt, and nickel derivatives. *Inorganic Chemistry* , **2010**, 49, 2280-9	5.1	2
194	Prospects for making organometallic compounds with BF ligands: fluoroborylene iron carbonyls. *Inorganic Chemistry*, **2010**, 49, 1046-55	5.1	23
193	Metal-Metal Quintuple and Sextuple Bonding in Bent Dimetallocenes of the Third Row Transition Metals. *Journal of Chemical Theory and Computation*, **2010**, 6, 735-46	6.4	28
192	Binuclear nickel carbonyl thiocarbonyls: metal-metal multiple bonds versus four-electron donor thiocarbonyl groups. *Journal of Physical Chemistry A*, **2010**, 114, 2365-75	2.8	6
191	The quest for trifluorophosphine as a bridging ligand in homoleptic binuclear and tetranuclear cobalt complexes. *Molecular Physics*, **2010**, 108, 2477-2489	1.7	5
190	Neutral homoleptic tetranuclear iron carbonyls: why haven't they been synthesized as stable molecules?. *New Journal of Chemistry*, **2010**, 34, 208-214	3.6	6
189	Binuclear manganese carbonyl thiocarbonyls: metal–metal multiple bonds versus four-electron donor thiocarbonyl groups. *New Journal of Chemistry*, **2010**, 34, 92-102	3.6	9
188	Fe3(BF)3(CO)8 structures with face-semibridging fluoroborylene ligands and a bicapped tetrahedral Fe3B3 cluster isoelectronic with Os6(CO)18. *New Journal of Chemistry*, **2010**, 34, 2813	3.6	6
187	Terminal versus bridging cyclobutadiene rings in binuclear nickel carbonyl derivatives: A cube-antiprism twist of the cyclobutadiene rings in the perpendicular structures. *New Journal of Chemistry*, **2010**, 34, 1885	3.6	4
186	Binuclear Cyclopentadienylmanganese Carbonyl Thiocarbonyls: Four-Electron Donor Bridging Thiocarbonyl Groups of Two Types and a Bridging Acetylenedithiolate Ligand. *European Journal of Inorganic Chemistry*, **2010**, 2010, 4175-4186	2.3	6
185	Chromium–Chromium Bonding in Binuclear Azulene Chromium Carbonyl Complexes. *European Journal of Inorganic Chemistry*, **2010**, 2010, 5161-5173	2.3	10
184	Formation of a four-electron donor carbonyl group in the decarbonylation of the unsaturated H2C2Fe2(CO)6 tetrahedrane as an alternative to an iron–iron triple bond. *Journal of Organometallic Chemistry*, **2010**, 695, 244-248	2.3	8
183	Binuclear fluoroborylene manganese carbonyls. *Inorganica Chimica Acta*, **2010**, 363, 3538-3549	2.7	7
182	Vanadium Carbonyl Nitrosyl Compounds: The Carbonyl Nitrosyl Chemistry of an Oxophilic Early Transition Metal. *European Journal of Inorganic Chemistry*, **2009**, 2009, 1647-1656	2.3	8
181	(Cyclopentadienyl)nitrosylmanganese Compounds: The Original Molecules Containing Bridging Nitrosyl Groups. *European Journal of Inorganic Chemistry*, **2009**, 2009, 3982-3992	2.3	3
180	Inhibition of Alkyne Cyclotrimerization to Arenes on a Metal Site by Four-Electron Donation through Simultaneous Sigma and Pi Bonding: The Tris(alkyne)Tungsten Carbonyls. *European Journal of Inorganic Chemistry*, **2009**, 2009, 5439-5448	2.3	2
179	The highly unsaturated dimetal hexacarbonyls of manganese and rhenium: Alternatives to a formal metal–metal quintuple bond. *International Journal of Quantum Chemistry*, **2009**, 109, 3082-3092	2.1	6
178	The interplay between metal–metal bonds, four-electron donor carbonyl groups, and five-electron donor nitrosyl groups in highly unsaturated binuclear rhenium carbonyl nitrosyls. *International Journal of Quantum Chemistry*, **2009**, 109, 2273-2285	2.1	

177	Endohedral nickel, palladium, and platinum atoms in 10-vertex germanium clusters: competition between bicapped square antiprismatic and pentagonal prismatic structures. *Journal of Physical Chemistry A*, **2009**, 113, 527-33	2.8	26
176	Binuclear Cyclopentadienylmolybdenum Carbonyl Derivatives: Where is the Missing Mo?Mo Double-Bonded Species Cp2Mo2(CO)5?. *Organometallics*, **2009**, 28, 2818-2829	3.8	5
175	(Acetylene)dicobalt Carbonyl Derivatives: Decarbonylation of the H2C2Co2(CO)6 Tetrahedrane. *Organometallics*, **2009**, 28, 3390-3394	3.8	9
174	The unique palladium-centered pentagonal antiprismatic cationic bismuth cluster: a comparison of related metal-centered 10-vertex pnictogen cluster structures by density functional theory. *Inorganic Chemistry*, **2009**, 48, 8508-14	5.1	19
173	From closo to isocloso structures and beyond in cobaltaboranes with 9 to 12 vertices. *Inorganic Chemistry*, **2009**, 48, 10117-25	5.1	6
172	Kinetic versus thermodynamic isomers of the deltahedral cobaltadicarbaboranes. *Inorganic Chemistry*, **2009**, 48, 5088-95	5.1	19
171	Binuclear Cyclopentadienylmetal Carbonyl Derivatives of the Oxophilic Metal Niobium. *Organometallics*, **2009**, 28, 6410-6424	3.8	11
170	Binuclear cobalt thiocarbonyl carbonyl derivatives: comparison with homoleptic binuclear cobalt carbonyls. *Inorganic Chemistry*, **2009**, 48, 5973-82	5.1	13
169	Mononuclear and binuclear cobalt carbonyl nitrosyls: comparison with isoelectronic nickel carbonyls. *New Journal of Chemistry*, **2009**, 33, 2090	3.6	9
168	Mononuclear and binuclear manganese carbonyl hydrides: the preference for bridging hydrogens over bridging carbonyls. *Dalton Transactions*, **2009**, 3774-85	4.3	13
167	Effects of halogen substitution on the properties of eight- and nine-vertex closo-boranes. *Dalton Transactions*, **2008**, 1745-51	4.3	10
166	Beyond the metal-metal triple bond in binuclear cyclopentadienylchromium carbonyl chemistry. *Dalton Transactions*, **2008**, 4805-10	4.3	11
165	The role of "external" lone pairs in the chemical bonding of bare post-transition element clusters: the Wade-Mingos rules versus the jellium model. *Dalton Transactions*, **2008**, 6083-8	4.3	31
164	Unsaturation in Binuclear Cyclobutadiene Iron Carbonyls: Triplet Structures, Four-Electron Bridging Carbonyl Groups, and Perpendicular Structures. *Organometallics*, **2008**, 27, 3113-3123	3.8	18
163	Bonding of seven carbonyl groups to a single metal atom: theoretical study of M(CO)n (M = Ti, Zr, Hf; n = 7, 6, 5, 4). *Journal of the American Chemical Society*, **2008**, 130, 7756-65	16.4	27
162	Unsaturation in Binuclear Benzene Manganese Carbonyls: Comparison with Isoelectronic Cyclopentadienyliron and Cyclobutadienecobalt Derivatives. *Organometallics*, **2008**, 27, 4572-4579	3.8	7
161	Beyond the Wade-Mingos Rules in Bare 10- and 12-Vertex Germanium Clusters: Transition States for Symmetry Breaking Processes. *Journal of Chemical Theory and Computation*, **2008**, 4, 209-15	6.4	7
160	Unsaturated Binuclear Cyclopentadienylmanganese Carbonyl Derivatives Related to Cymantrene. *Organometallics*, **2008**, 27, 61-66	3.8	24

159	The group-theoretical structure of the atomic g shell: connection with the alternating group A 6 as L 2(9). *Journal of Mathematical Chemistry*, **2008**, 44, 5-19	2.1	1
158	Polyhedral structures with three-, four-, and five fold symmetry in metal-centered ten-vertex germanium clusters. *Chemistry - A European Journal*, **2008**, 14, 4542-50	4.8	19
157	Unexpected direct iron-fluorine bonds in trifluorophosphane iron complexes: an alternative to bridging trifluorophosphane and difluorophosphido groups. *Chemistry - A European Journal*, **2008**, 14, 11149-57	4.8	5
156	Comparison of Isoelectronic Heterometallic and Homometallic Binuclear Cyclopentadienylmetal Carbonyls: The Iron□Nickel vs. the Dicobalt Systems. *European Journal of Inorganic Chemistry*, **2008**, 2008, 1219-1225	2.3	3
155	A Carbonyl Group Bridging Four Metal Atoms in a Homoleptic Carbonylmetal Cluster: The Remarkable Case of □Co4(CO)11. *European Journal of Inorganic Chemistry*, **2008**, 2008, 2158-2164	2.3	8
154	Bis(cycloheptatrienyl) Derivatives of the First-Row Transition Metals: Variable Hapticity of the Cycloheptatrienyl Ring. *European Journal of Inorganic Chemistry*, **2008**, 2008, 3698-3708	2.3	26
153	Beyond the Icosahedron: A Density Functional Theory Study of 14-Atom Germanium Clusters. *European Journal of Inorganic Chemistry*, **2008**, 2008, 3996-4003	2.3	10
152	Formal chromium□chromium triple bonds and bent rings in the binuclear cycloheptatrienylchromium carbonyls (C7H7)2Cr2(CO)n (n = 6, 5, 4, 3, 2, 1, 0): A density functional theory study. *Journal of Organometallic Chemistry*, **2008**, 693, 3201-3212	2.3	5
151	Dimetallocene carbonyls: The limits of the 18-electron rule and metal□metal multiple bonding in highly unsaturated molecules of the early transition metals. *Journal of Molecular Structure*, **2008**, 890, 184-191	3.4	7
150	Spectroscopic detection and theoretical confirmation of the role of Cr2(CO)5(C5R5)2 and .Cr(CO)2(ketene)(C5R5) as intermediates in carbonylation of N=N=CHSiMe3 to O=C=CHSiMe3 by .Cr(CO)3(C5R5) (R = H, CH3). *Journal of the American Chemical Society*, **2007**, 129, 14388-400	16.4	36
149	Interplay between two-electron and four-electron donor carbonyl groups in oxophilic metal systems: highly unsaturated divanadocene carbonyls. *Journal of the American Chemical Society*, **2007**, 129, 3433-43	16.4	27
148	Dual relationship between large gold clusters (antifullerenes) and carbon fullerenes: a new lowest-energy cage structure for Au50. *Journal of Physical Chemistry A*, **2007**, 111, 411-4	2.8	39
147	Unsaturation in Binuclear (Cyclobutadiene)cobalt Carbonyls with Axial and Perpendicular Structures: Comparison with Isoelectronic Binuclear Cyclopentadienyliron Carbonyls. *Organometallics*, **2007**, 26, 1393-1401	3.8	13
146	Density functional theory study of twelve-atom germanium clusters: conflict between the Wade-Mingos rules and optimum vertex degrees. *Dalton Transactions*, **2007**, 364-72	4.3	23
145	Transition Metal Cluster Compounds. *Progress in Inorganic Chemistry*, **2007**, 287-473		52
144	Homoleptic Carbonyls of the Second-Row Transition Metals: Evaluation of Hartree-Fock and Density Functional Theory Methods. *Journal of Chemical Theory and Computation*, **2007**, 3, 1580-7	6.4	68
143	The Binuclear Cyclopentadienylvanadium Carbonyls (□-C5H5)2V2(CO)7 and (□-C5H5)2V2(CO)6: Comparison with Homoleptic Chromium Carbonyls. *European Journal of Inorganic Chemistry*, **2007**, 2007, 1599-1605	2.3	8
142	A stable, neutral diborene containing a B=B double bond. *Journal of the American Chemical Society*, **2007**, 129, 12412-3	16.4	434

141	Binuclear vanadium carbonyls: the limits of the 18-electron rule. *Inorganic Chemistry*, **2007**, 46, 1803-16	5.1	12
140	Group-theoretical structure of the atomic f shell: connection with the non-Euclidean heptakisoctahedral (didodecahedral) group. *Molecular Physics*, **2006**, 104, 3261-3268	1.7	1
139	Octacarbonyldivanadium: a highly unsaturated binuclear metal carbonyl. *Molecular Physics*, **2006**, 104, 763-775	1.7	6
138	Unsaturation in binuclear cyclopentadienyliron carbonyls. *Inorganic Chemistry*, **2006**, 45, 3384-92	5.1	45
137	The isolable matryoshka nesting doll icosahedral cluster [As@Ni12@As20]3- as a "superatom": analogy with the jellium cluster Al13- generated in the gas phase by laser vaporization. *Chemical Communications*, **2006**, 4204-5	5.8	19
136	Remarkable aspects of unsaturation in trinuclear metal carbonyl clusters: the triiron species Fe3(CO)n (n = 12, 11, 10, 9). *Journal of the American Chemical Society*, **2006**, 128, 11376-84	16.4	178
135	Oblate deltahedra in dimetallaboranes: geometry and chemical bonding. *Inorganic Chemistry*, **2006**, 45, 8211-6	5.1	43
134	Density functional theory study of 10-atom germanium clusters: effect of electron count on cluster geometry. *Inorganic Chemistry*, **2006**, 45, 4974-81	5.1	35
133	Butterfly diradical intermediates in photochemical reactions of Fe2(CO)6(mu-S2). *Journal of the American Chemical Society*, **2006**, 128, 5342-3	16.4	134
132	Jahn□Teller distortions considered as steady state bifurcations. *Molecular Physics*, **2006**, 104, 463-465	1.7	
131	The group-theoretical structure of the atomic d shell and the energies of the corresponding terms. *Molecular Physics*, **2006**, 104, 1855-1860	1.7	2
130	Response of D. H. Rouvray and R. B. King, Editors of the Book □The Periodic Table: Into the 21st Century□ *Foundations of Chemistry*, **2006**, 8, 305-306	0.7	
129	The Chirality of Icosahedral Fullerenes: a Comparison of the Tripling (leapfrog), Quadrupling (chamfering), and Septupling (capra) Transformations. *Journal of Mathematical Chemistry*, **2006**, 39, 597-604	2.1	13
128	FeCo nanoalloy formation by decomposition of their carbonyl precursors. *Journal of Materials Chemistry*, **2005**,		5
127	Eight-vertex tetrametallic structures derived from cubanes: a close relationship between bisdisphenoidal metallaborane and organometallic clusters. *Inorganic Chemistry*, **2005**, 44, 466-7	5.1	4
126	Nonacarbonyldivanadium: alternatives to metal-metal quadruple bonding. *Journal of Physical Chemistry A*, **2005**, 109, 11064-72	2.8	5
125	Binuclear cyclopentadienylcobalt carbonyls: comparison with binuclear iron carbonyls. *Journal of the American Chemical Society*, **2005**, 127, 11646-51	16.4	97
124	Density functional study of 8- and 11-vertex polyhedral borane structures: comparison with bare germanium clusters. *Inorganic Chemistry*, **2005**, 44, 7819-24	5.1	6

123	Density functional theory study of eight-atom germanium clusters: effect of electron count on cluster geometry. *Dalton Transactions*, **2005**, 1858-64	4.3	22
122	Polyhedral Dynamics and the Jahn□Teller Effect **2005**, 1-39		2
121	The dichotomy of dimetallocenes: coaxial versus perpendicular dimetal units in sandwich compounds. *Journal of the American Chemical Society*, **2005**, 127, 2818-9	16.4	112
120	On the chemistry of Zn-Zn bonds, RZn-ZnR (R = [{(2,6-Pri2C6H3)N(Me)C}2CH]): synthesis, structure, and computations. *Journal of the American Chemical Society*, **2005**, 127, 11944-5	16.4	181
119	Theory and Concepts in Main-Group Cluster Chemistry **2005**, 1-33		3
118	Homoleptic binuclear chromium carbonyls: why haven□t they been synthesized as stable molecules?. *Inorganica Chimica Acta*, **2005**, 358, 1442-1452	2.7	12
117	Spherical aromaticity: recent work on fullerenes, polyhedral boranes, and related structures. *Chemical Reviews*, **2005**, 105, 3613-42	68.1	389
116	From the Cube to the Dyck and Klein Tessellations: Implications for the Structures of Zeolite-like Carbon and Boron Nitride Allotropes. *Journal of Mathematical Chemistry*, **2005**, 38, 425-435	2.1	1
115	Density functional theory study of 11-atom germanium clusters: effect of electron count on cluster geometry. *Inorganic Chemistry*, **2005**, 44, 3579-88	5.1	26
114	Cyclopentadienyl ruthenium, rhodium, and iridium vertices in metallaboranes: geometry and chemical bonding. *Inorganic Chemistry*, **2004**, 43, 4241-7	5.1	11
113	Antiaromaticity in bare deltahedral silicon clusters satisfying Wade's and Hirsch's rules: an apparent correlation of antiaromaticity with high symmetry. *Journal of the American Chemical Society*, **2004**, 126, 430-1	16.4	79
112	Structure and bonding in the omnicapped truncated tetrahedral Au20 cluster: analogies between gold and carbon cluster chemistry. *Inorganic Chemistry*, **2004**, 43, 4564-6	5.1	52
111	The Highly Unsaturated Binuclear Chromium Carbonyl Cr2(CO)8. *Journal of Physical Chemistry A*, **2004**, 108, 6879-6885	2.8	13
110	Endohedral nickel and palladium atoms in metal clusters: analogy to endohedral noble gas atoms in fullerenes in polyhedra with five-fold symmetry. *Dalton Transactions*, **2004**, 3420-4	4.3	18
109	Chemical applications of topology and group theory: 37. Pentalene as a ligand in transition metal sandwich complexes. *Applied Organometallic Chemistry*, **2003**, 17, 393-397	3.1	17
108	Binuclear homoleptic manganese carbonyls: Mn2(CO)x (x = 10, 9, 8, 7). *Inorganic Chemistry*, **2003**, 42, 5219-30	5.1	47
107	The rule breaking Cr2(CO)10. A 17 electron Cr system or a Cr=Cr double bond?. *Faraday Discussions*, **2003**, 124, 315-29; discussion 343-52, 453-5	3.6	22
106	Defective vertices in arachno borane networks. *Inorganic Chemistry*, **2003**, 42, 3412-5	5.1	8

105	Density functional theory study of nine-atom germanium clusters: effect of electron count on cluster geometry. *Inorganic Chemistry*, **2003**, 42, 6701-8	5.1	40
104	Chromium□Chromium Multiple Bonding in Cr2(CO)9. *Journal of Physical Chemistry A*, **2003**, 107, 10118-10125	2.8	25
103	Chemical bonding topology of ternary transition metal-centered bismuth cluster halides: from molecules to metals. *Inorganic Chemistry*, **2003**, 42, 8755-61	5.1	12
102	M□bius aromaticity in bipyramidal rhodium-centered bismuth clusters. *Dalton Transactions*, **2003**, 395	4.3	12
101	A Density Functional Theory Study of Distortions from Octahedral Symmetry in Hypoelectronic Six-Vertex Polyhedral Clusters of the Group 13 Elements Boron, Indium, and Thallium. *ACS Symposium Series*, **2002**, 208-225	0.4	2
100	Generation of a Reactive (i -Pr 2 NP) 2 Fe 2 (CO) 6 Intermediate by Extrusion of a Phosphorus-Bridging Carbonyl Group: Matrix Isolation and Chemical Reactivity Studies. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2002**, 177, 1567-1570	1	1
99	Topological representations of Jahn-Teller distortions. *Molecular Physics*, **2002**, 100, 1567-1577	1.7	7
98	Inorganic Polymer Syntheses **2002**, 35-92		
97	Practical Inorganic Polymer Chemistry **2002**, 179-233		
96	Inorganic Polymers and Classification Schemes **2002**, 1-33		
95	Inorganic Polymer Characterization **2002**, 93-178		
94	Flattening of rhodium vertices in mixed rhodium-nickel carbonyl clusters: relationships to borane and zintl ion structures. *Inorganic Chemistry*, **2002**, 41, 4722-6	5.1	7
93	A density functional theory study of five-, six- and seven-atom germanium clusters: distortions from ideal bipyramidal deltahedra in hypoelectronic structures. *Dalton Transactions RSC*, **2002**, 3999-4004		27
92	The direct product structure of atomic orbital manifolds: extension to non-Euclidean permutation groups. *Molecular Physics*, **2002**, 100, 3733-3739	1.7	
91	A geometrical model for the double octahedral group based on a genus two Riemann surface. *Molecular Physics*, **2002**, 100, 297-302	1.7	3
90	Some Aspects of Structure and Bonding in Binary and Ternary Uranium(VI) Oxides. *Chemistry of Materials*, **2002**, 14, 3628-3635	9.6	28
89	Nonhanded chirality in octahedral metal complexes. *Chirality*, **2001**, 13, 465-73	2.1	8
88	Defective vertices in closo- and nido-borane polyhedra. *Inorganic Chemistry*, **2001**, 40, 6369-74	5.1	26

87	Three-dimensional aromaticity in polyhedral boranes and related molecules. *Chemical Reviews*, **2001**, 101, 1119-52	68.1	378
86	Aromaticity in transition metal oxide structures. *Journal of Chemical Information and Computer Sciences*, **2001**, 41, 517-26		6
85	Cobalt□Cobalt Multiple Bonds in Homoleptic Carbonyls? Co2(CO)x (x = 5□8) Structures, Energetics, and Vibrational Spectra. *Inorganic Chemistry*, **2001**, 40, 900-911	5.1	69
84	Binuclear homoleptic copper carbonyls Cu(2)(CO)(x) (x = 1-6): remarkable structures contrasting metal-metal multiple bonding with low-dimensional copper bonding manifolds. *Inorganic Chemistry*, **2001**, 40, 5842-50	5.1	23
83	Flat Potential Energy Surface of the Saturated Binuclear Homoleptic Chromium Carbonyl Cr2(CO)11 with One, Two, and Three Bridging Carbonyls: Comparison with the Well-Known [HCr2(CO)10]- Anion and the Related [(□H)2Cr2(CO)9]2- and [(□H)2Cr2(CO)8]2- Dianions. *Journal of Physical Chemistry A*, **2001**, 105, 11134-11143	2.8	35
82	Some examples of unusual skeletal bonding topologies in metallaboranes containing two or three early transition metal vertices. *Inorganic Chemistry*, **2001**, 40, 2699-704	5.1	11
81	Distortions from octahedral symmetry in hypoelectronic six-vertex polyhedral clusters of the group 13 elements boron, indium, and thallium as studied by density functional theory. *Inorganic Chemistry*, **2001**, 40, 2450-2	5.1	16
80	Unsaturated binuclear homoleptic metal carbonyls M2(CO)x (M = Fe, Co, Ni; x = 5, 6, 7, 8). Are multiple bonds between transition metals possible for these molecules?. *Pure and Applied Chemistry*, **2001**, 73, 1059-1073	2.1	24
79	The Role of Mathematics in the Experimental/Theoretical/Computational Trichotomy of Chemistry. *Foundations of Chemistry*, **2000**, 2, 221-236	0.7	2
78	Synthesis of Polystyrene-Supported Dithizone Analogues for Use as Chemical Sensors for Heavy Metals. *ACS Symposium Series*, **2000**, 23-36	0.4	
77	Binuclear Homoleptic Nickel Carbonyls: Incorporation of Ni□Ni Single, Double, and Triple Bonds, Ni2(CO)x (x = 5, 6, 7). *Journal of the American Chemical Society*, **2000**, 122, 1989-1994	16.4	56
76	Binuclear Homoleptic Iron Carbonyls: Incorporation of Formal Iron□Iron Single, Double, Triple, and Quadruple Bonds, Fe2(CO)x (x = 9, 8, 7, 6). *Journal of the American Chemical Society*, **2000**, 122, 8746-8761	16.4	122
75	Chemical applications of topology and group theory. 34. Structure and bonding in titanocarbohedrene cages. *Inorganic Chemistry*, **2000**, 39, 2906-8	5.1	4
74	Chemical Structure and Superconductivity. *Journal of Chemical Information and Computer Sciences*, **1999**, 39, 180-191		14
73	Topological Aspects of the Skeletal Bonding in "Isocloso" Metallaboranes Containing "Anomalous" Numbers of Skeletal Electrons. *Inorganic Chemistry*, **1999**, 38, 5151-5153	5.1	65
72	Topological aspects of metals in carbon cages: Analogies with organometallic chemistry. *Russian Chemical Bulletin*, **1998**, 47, 833-840	1.7	4
71	Chemical Applications of Topology and Group Theory. 33. Symmetry-Forbidden Coordination Polyhedra for Spherical Atomic Orbital Manifolds1. *Inorganic Chemistry*, **1998**, 37, 3057-3059	5.1	17
70	Antimony and Bismuth Oxide Clusters: Growth and Decomposition of New Magic Number Clusters. *Journal of Physical Chemistry A*, **1997**, 101, 6214-6221	2.8	32

69	Chemical Applications of Topology and Group Theory. 31. Atomic Orbital Graphs and the Shapes of the g and h Orbitals1. *Journal of Physical Chemistry A*, **1997**, 101, 4653-4656	2.8	13
68	Noble Metal Catalyzed Hydrogen Generation from Formic Acid in Nitrite-Containing Simulated Nuclear Waste Media. *Environmental Science & Technology*, **1996**, 30, 1292-1299	10.3	9
67	The Shapes of Coordination Polyhedra. *Journal of Chemical Education*, **1996**, 73, 993	2.4	16
66	Chemical Applications of Topology and Group Theory. 29. Low Density Polymeric Carbon Allotropes Based on Negative Curvature Structures1. *The Journal of Physical Chemistry*, **1996**, 100, 15096-15104		22
65	Catalytic reactions of formate. 3. Noble metal chlorides as catalyst precursors for formic acid reactions. *Transition Metal Chemistry*, **1995**, 20, 321-326	2.1	11
64	Magnetic Resonance as a Structural Probe of a Uranium (Vi) Sol-Gel Process. *Materials Research Society Symposia Proceedings*, **1990**, 180, 1075		7
63	Oxygen-17 Nmr Studies of Uranium (VI) Hydrolysis and Gelation. *Materials Research Society Symposia Proceedings*, **1990**, 180, 1083		2
62	The incorporation of nickel into poly(iminomethylene)s obtained from the polymerization of isocyanides catalyzed by nickel(II) derivatives: An energy dispersive scanning electron microscopy study. *Die Makromolekulare Chemie Rapid Communications*, **1988**, 9, 323-326		1
61	Chirality polynomials. *Journal of Mathematical Chemistry*, **1988**, 2, 89-115	2.1	10
60	Topological Aspects of Chemical Bonding in Superconductors. *ACS Symposium Series*, **1988**, 54-63	0.4	1
59	Reactions of Dialkylaminodichlorophosphines with Tetracarbonylferrate (II): Routes to Novel Phosphorus Bridging Carbonyl Derivatives and Triphosphine Complexes. *Phosphorous and Sulfur and the Related Elements*, **1987**, 30, 169-172		1
58	Kinetic Logic as a Qualitative Approach for the Study of Oscillating and Chaotic Systems. *Annals of the New York Academy of Sciences*, **1987**, 504, 297-298	6.5	
57	Studies on poly(iminomethylenes). *Journal of Polymer Science Part A*, **1987**, 25, 907-918	2.5	7
56	Poly(iminomethylene) copolymers. *Journal of Polymer Science Part A*, **1987**, 25, 2165-2173	2.5	2
55	Chemical applications of topology and group theory. 23. A comparison of graph-theoretical and extended H□kel methods for study of bonding in octahedral and icosahedral boranes. *Journal of Computational Chemistry*, **1987**, 8, 341-349	3.5	17
54	Chemical applications of topology and group theory. *Theoretica Chimica Acta*, **1986**, 69, 1-10		13
53	Graph theory in the study of metal cluster bonding topology: Applications to metal clusters having fused polyhedra. *International Journal of Quantum Chemistry*, **1986**, 30, 227-238	2.1	14
52	Systematics of strongly self-dominant higher-order differential equations based on the Painlev□ analysis of their singularities. *Journal of Mathematical Physics*, **1986**, 27, 966-971	1.2	8

51	ISOMER ENUMERATION IN POLYTERTIARY PHOSPHINES AND RELATED COMPOUNDS. *Phosphorous and Sulfur and the Related Elements*, **1985**, 22, 177-182		
50	Dialkylaminodichlorophosphines. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **1985**, 15, 149-153		38
49	Poly(tertiary phosphines and arsines). 21. Metal carbonyl complexes of bis(dimethylphosphino)methane. *Inorganic Chemistry*, **1984**, 23, 2482-2491	5.1	35
48	Chemical applications of topology and group theory. *Theoretica Chimica Acta*, **1983**, 63, 323-338		11
47	New Dialkylamino Derivatives of Trivalent Phosphorus. *Phosphorous and Sulfur and the Related Elements*, **1983**, 18, 125-128		9
46	Recent Advances in Polyphosphine Synthesis. *Advances in Chemistry Series*, **1982**, 313-323		5
45	Metal complexes of fluorophosphines. 10. Mononuclear and binuclear chromium, molybdenum, and tungsten carbonyl derivatives of (alkylamino)bis(difluorophosphines). *Inorganic Chemistry*, **1982**, 21, 319-329	5.1	23
44	Homogeneous Catalysis of the Water Gas Shift Reaction Using Simple Mononuclear Carbonyls. *ACS Symposium Series*, **1981**, 123-132	0.4	7
43	Alkylaminobis(difluorophosphines): novel bidentate ligands for stabilizing low metal oxidation states and metal-metal bonded systems. *Accounts of Chemical Research*, **1980**, 13, 243-248	24.3	63
42	Homogeneous Catalysis of the Water Gas Shift Reaction: Pentacarbonyliron and the Metal Hexacarbonyls as Active Catalyst Precursors. *Advances in Chemistry Series*, **1979**, 94-105		11
41	Metal Complexes of Fluorophosphines. VIII. Some Metal Complexes of Phenylaminobis (Difluorophosphine). *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **1979**, 9, 139-143		4
40	Catalysts for the Isomerization of Quadricyclane to Norbornadiene in a Photochemical Energy Storage System. *Advances in Chemistry Series*, **1979**, 344-357		5
39	Tetrakis[methylaminobis(difluorophosphine)]carbonyldiiron: unsymmetrical bonding of methylaminobis(difluorophosphine) to a pair of transition metals involving phosphorus-nitrogen bond cleavage. *Journal of the American Chemical Society*, **1978**, 100, 326-327	16.4	16
38	Complete substitution of carbonyl groups in cyclopentadienyliron dicarbonyl dimer by methylaminobis(difluorophosphine). A novel bridging CH3NPF2 ligand bonded to metals through both phosphorus and nitrogen. *Journal of the American Chemical Society*, **1978**, 100, 1632-1634	16.4	26
37	ISOCYANIDE-METAL COMPLEXES. V. OCTAHEDRAL METAL CARBONYL COMPLEXES OF THE OPTICALLY PURE ENANTIOMERS OF □METHYLBENZYLISOCYANIDE1. *Journal of Coordination Chemistry*, **1978**, 7, 193-196	1.6	4
36	COMPLEXES OF TRIVALENT PHOSPHORUS DERIVATIVES, XVIII. SOME COMPLEXES OF NEOPENTYLPHOSPHINES WITH RHODIUM, NICKEL, AND PALLADIUM CHLORIDES1. *Journal of Coordination Chemistry*, **1977**, 7, 23-26	1.6	4
35	Chemical applications of group theory and topology. 7. A graph-theoretical interpretation of the bonding topology in polyhedral boranes, carboranes, and metal clusters. *Journal of the American Chemical Society*, **1977**, 99, 7834-7840	16.4	213
34	X-Ray crystal and molecular structure of [Et2NCFe(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

33	CARBON□CARBON TRIPLE-BOND DICHOTOMY IN ALKYNES USING METAL CARBONYLS*. *Annals of the New York Academy of Sciences*, **1977**, 295, 135-140	6.5	4
32	Symmetry factoring of the characteristic equations of graphs corresponding to polyhedra. *Theoretica Chimica Acta*, **1977**, 44, 223-243		52
31	Organonitrogen derivatives of metal carbonyls. IX. Novel products from reactions of aminoalkynes with metal carbonyls. *Inorganic Chemistry*, **1976**, 15, 879-885	5.1	64
30	The Elplacarnet Tree: A Complement to the Periodic Table for the Organometallic Chemist. *Israel Journal of Chemistry*, **1976**, 15, 181-188	3.4	7
29	Mass spectra of some neopentylphosphorus derivatives. *Organic Mass Spectrometry*, **1976**, 11, 148-153		3
28	Organonitrogen derivatives of metal carbonyls. VI. Novel products reactions of 2-bromo-2-nitrosopropane with metal carbonylanions. *Inorganic Chemistry*, **1974**, 13, 1339-1342	5.1	36
27	Some Chromium Carbonyl Complexes of N,N-Bis(2-chloroethyl)aniline Derivatives and Related Antileukemia Compounds. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **1974**, 4, 447-452		3
26	Notizen: Isomerism in the Linear Tetratertiary Phosphine 1,1,4,7,10,10-Hexaphenyl-1, 4,7,10-Tetraphosphadecane. *Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences*, **1974**, 29, 574-575	1	11
25	Mass spectra of organometallic compounds: XIV. Some monometallic olefing manganese tricarbonyl derivatives. *Organic Mass Spectrometry*, **1974**, 9, 189-194		4
24	Notizen: New Polyphosphines Containing Various Combinations of Primary, Secondary, and Tertiary Phosphorus Atoms. *Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences*, **1972**, 27, 1432-1433	1	7
23	P,P-Diphenylethylenediphosphane. *Angewandte Chemie International Edition in English*, **1971**, 10, 734-735		4
22	Mass spectra of organometallic compounds□III: Metal carbonyl complexes of tris(dimethylamino)arsine. *Organic Mass Spectrometry*, **1971**, 5, 939-944		13
21	POLYTERTIARY PHOSPHINES AND ARSINES II: Systematics of Polytertiary Phosphines and their Metal Complexes. *Journal of Coordination Chemistry*, **1971**, 1, 67-72	1.6	9
20	Mass spectra of organometallic compounds□I: Pyrrolyl, indenyl and fluorenyl derivatives of manganese carbonyl. *Organic Mass Spectrometry*, **1970**, 3, 1227-1232		13
19	Mass spectra of organometallic compounds□II: Tetraphenylcyclobutadiene derivatives. *Organic Mass Spectrometry*, **1970**, 3, 1233-1237		11
18	Applications of metal carbonyl anions in the synthesis of ususual organometallic compounds. *Accounts of Chemical Research*, **1970**, 3, 417-427	24.3	188
17	Mass spectra of organometallic compounds□II; Organonitrogen derivatives of metal carbonyls. *Organic Mass Spectrometry*, **1969**, 2, 387-399		9
16	Mass spectra of organometallic compounds□III. Some transition metal organometallic halide derivatives. *Organic Mass Spectrometry*, **1969**, 2, 401-412		12

15	Mass spectra of organometallic compounds□X: Compounds with metal-metal bonds. *Organic Mass Spectrometry*, **1969**, 2, 657-679		23
14	Notizen: Permethylpolysilanyl Derivatives of Iron. *Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences*, **1969**, 24, 262-262	1	8
13	organoSULFur Derivatives of h metal-metal bonds. xiii. peNtafluorophenyl compounds of phosphorus.ang. .ang. .ang.. *Inorganic Chemistry*, **1968**, 7, 1214-1218	5.1	11
12	Organometallic Chemistry of the Transition Metals. XVI. Polynuclear Cyclopentadienylmetal Carbonyls of Iron and Cobalt. *Inorganic Chemistry*, **1966**, 5, 2227-2230	5.1	124
11	Organometallic Chemistry of the Transition Metals. VI. Some Cycloheptatrienyl Derivatives of Chromium, Molybdenum, and Cobalt. *Inorganic Chemistry*, **1964**, 3, 785-790	5.1	67
10	Organometallic Chemistry of the Transition Metals. IX. Reactions between Metal Carbonyls and Dimethylaminofulvenes. *Inorganic Chemistry*, **1964**, 3, 801-807	5.1	32
9	Organosulfur Derivatives of Metal Carbonyls. I. The Isolation of Two Isomeric Products in the Reaction of Triiron Dodecacarbonyl with Dimethyl Disulfide. *Journal of the American Chemical Society*, **1962**, 84, 2460-2460	16.4	108
8	Chemistry of the Metal Carbonyls. XIV. New Organosulfur Derivatives of Iron and Cobalt1,2. *Journal of the American Chemical Society*, **1961**, 83, 3600-3604	16.4	106
7	CHEMISTRY OF THE METAL CARBONYLS. X. TETRACARBONYLNITROSYLMANGANESE(0)1,2. *Journal of the American Chemical Society*, **1961**, 83, 2593-2594	16.4	46
6	Chemistry of the Metal Carbonyls. III. The Reaction between Iron Pentacarbonyl and Tetraorganotin Compounds1,2. *Journal of the American Chemical Society*, **1960**, 82, 3833-3835	16.4	33
5	□CYCLOPENTADIENYL-□CYCLOHEPTATRIENYL VANADIUM. *Journal of the American Chemical Society*, **1959**, 81, 5263-5264	16.4	77
4	5-Acetyl-1,2,3,4,5-Pentamethylcyclopentadiene1-1		
3	Dicarbonyl-□5-cyclopentadienylnitrosylmanganese(1+) Hexafluorophosphate(1-). *Inorganic Syntheses*,91-92		3
2	[2-(Phenylphosphino)Ethyl]Diphenylphosphine. *Inorganic Syntheses*,202-206		1
1	Dicarbonyl-□Cyclopentadienylnitrosyl-Molybdenum and bis(Dihalo-□Cyclopentadienylnitrosyl-Molybdenum) Derivatives. *Inorganic Syntheses*,24-29		8