Alexander I Boldyrev

List of Publications by Year in Descending Order

293 papers	18,183 citations	73 h-index	125 g-index
335 ext. papers	19,954 ext. citations	6.9 avg, IF	7 L-index

#	Paper	IF	Citations
293	Synthesis and Structure of Binary Copper/Silver-Arsenic Clusters Derived from Zintl Ion As73- *Chinese Journal of Chemistry*, **2022**, 40, 65	4.9	2
292	Symmetry collapse due to the presence of multiple local aromaticity in Ge.. *Nature Communications*, **2022**, 13, 2149	17.4	2
291	Superalkali Coated Rydberg Molecules.. *Frontiers in Chemistry*, **2022**, 10, 880804	5	
290	Sn: a 2.7 nm naked aromatic tin rod.. *Chemical Communications*, **2022**,	5.8	1
289	Probing copper-boron interactions in the Cu2B8- bimetallic cluster. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2022**, 40, 042201	2.9	
288	An Autobiographical History of Alexander I. Boldyrev. *Journal of Physical Chemistry A*, **2021**, 125, 9264-9268	2.8	
287	[Sn8]6- Bridged Mixed-Valence ZnI/ZnII in {[K2ZnSn8(ZnMes)]2}4- Inverse Sandwich-Type Cluster Supported by a ZnI-ZnI Bond. *Angewandte Chemie*, **2021**, 133, 10078-10083	3.6	
286	[Sn] -Bridged Mixed-Valence Zn /Zn in {[K ZnSn (ZnMes)] } Inverse Sandwich-Type Cluster Supported by a Zn -Zn Bond. *Angewandte Chemie - International Edition*, **2021**, 60, 9990-9995	16.4	6
285	Novel Strongly Correlated Europium Superhydrides. *Journal of Physical Chemistry Letters*, **2021**, 12, 32-40	6.4	11
284	Spherical aromaticity in inorganic chemistry **2021**, 447-489		1
283	The Rise of Neural Networks for Materials and Chemical Dynamics. *Journal of Physical Chemistry Letters*, **2021**, 12, 6227-6243	6.4	8
282	Ternary aromatic and anti-aromatic clusters derived from the hypho species [SnSb]. *Nature Communications*, **2021**, 12, 4465	17.4	1
281	Photoelectron Spectroscopy of Size-Selected Bismuth-Boron Clusters: BiB (= 6-8). *Journal of Physical Chemistry A*, **2021**, 125, 6751-6760	2.8	6
280	DFT Study of Microsolvated [NO(HO)] (= 1-12) Clusters and Molecular Dynamics Simulation of Nitrate Solution. *Journal of Physical Chemistry A*, **2021**, 125, 8899-8906	2.8	1
279	Reply to the Comment on Realization of Lewis Basic Sodium Anion in the NaBH3- Cluster *Angewandte Chemie*, **2020**, 132, 8840-8844	3.6	9
278	All-metal antiaromaticity in dimeric cluster anion {[CuGeMes]}. *Chemical Communications*, **2020**, 56, 6583-6586	5.8	19
277	Stability, electronic, and optical properties of two-dimensional phosphoborane. *Journal of Computational Chemistry*, **2020**, 41, 1456-1463	3.5	9

276	Aromaticity-Induced Stabilization of Heterometallic Supertetrahedral Clusters [Zn Ge] and [Cd Ge]. *Angewandte Chemie - International Edition*, **2020**, 59, 17286-17290	16.4	18
275	Aromaticity-Induced Stabilization of Heterometallic Supertetrahedral Clusters [Zn6Ge16]4 and [Cd6Ge16]4 *Angewandte Chemie*, **2020**, 132, 17439-17443	3.6	6
274	Aromaticity in the MoS2 Monolayer. *Journal of Physical Chemistry C*, **2020**, 124, 6267-6273	3.8	18
273	Can aromaticity be a kinetic trap? Example of mechanically interlocked aromatic [2-5]catenanes built from cyclo[18]carbon. *Chemical Communications*, **2020**, 56, 2711-2714	5.8	29
272	Periodic F-defects on the MgO surface as potential single-defect catalysts with non-linear optical properties. *Chemical Physics*, **2020**, 532, 110680	2.3	13
271	Reply to the Comment on "Realization of Lewis Basic Sodium Anion in the NaBH Cluster". *Angewandte Chemie - International Edition*, **2020**, 59, 8760-8764	16.4	16
270	Boron-Made N : Realization of a B?B Triple Bond in the B Al Cluster. *Chemistry - A European Journal*, **2020**, 26, 8017-8021	4.8	10
269	Expansion of Magnetic Aromaticity Criteria to Multilayer Structures: Magnetic Response and Spherical Aromaticity of Matryoshka-Like Cluster [Sn@Cu @Sn]. *Chemistry - A European Journal*, **2020**, 26, 2263-2268	4.8	17
268	Spherical Aromaticity of All-Metal [Bi@In Bi] Clusters. *Chemistry - A European Journal*, **2020**, 26, 2073-2078	4.8	15
267	o-Quinone phenalenyl derivatives as expedient ligands for the design of magnetically active metal complexes: A computational study. *Chemical Physics Letters*, **2020**, 740, 137073	2.5	6
266	Electronic structure and magnetic properties of the triangular nanographenes with radical substituents: a DFT study. *Physical Chemistry Chemical Physics*, **2020**, 22, 1288-1298	3.6	9
265	A sandwich-type cluster containing Ge@Pd planar fragment flanked by aromatic nonagermanide caps. *Nature Communications*, **2020**, 11, 5286	17.4	14
264	Dibridged, Monobridged, Vinylidene-Like, and Linear Structures for the Alkaline Earth Dihydrides BeH, MgH, CaH, SrH, and BaH. Proposals for Observations. *Inorganic Chemistry*, **2020**, 59, 10404-10408	5.1	2
263	Novel architectures of boron. *Structural Chemistry*, **2020**, 31, 2105-2128	1.8	10
262	Computational Prediction of the Low-Temperature Ferromagnetic Semiconducting 2D SiN Monolayer. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 1900619	1.3	8
261	"Bottled" spiro-doubly aromatic trinuclear [PdRu] complexes. *Chemical Science*, **2020**, 12, 477-486	9.4	10
260	Record Low Ionization Potentials of Alkali Metal Complexes with Crown Ethers and Cryptands. *ChemPhysChem*, **2019**, 20, 2013	3.2	
259	Structure and bonding of new boron and carbon superpolyhedra. *Structural Chemistry*, **2019**, 30, 805-814	1.8	11

258	Inorganic Molecular Electride Mg O : Structure, Bonding, and Nonlinear Optical Properties. *Chemistry - A European Journal*, **2019**, 25, 5311-5315	4.8	16
257	Innentitelbild: Structure and Bonding in [Sb@In8Sb12]3 and [Sb@In8Sb12]5 (Angew. Chem. 25/2019). *Angewandte Chemie*, **2019**, 131, 8330	3.6	
256	Structure and Bonding in [Sb@In8Sb12]3 and [Sb@In8Sb12]5 *Angewandte Chemie*, **2019**, 131, 8455-8459	3.6	8
255	Record Low Ionization Potentials of Alkali Metal Complexes with Crown Ethers and Cryptands. *ChemPhysChem*, **2019**, 20, 2060-2062	3.2	15
254	Probing the structures and bonding of size-selected boron and doped-boron clusters. *Chemical Society Reviews*, **2019**, 48, 3550-3591	58.5	90
253	Structure and Bonding in [Sb@In Sb] and [Sb@In Sb]. *Angewandte Chemie - International Edition*, **2019**, 58, 8367-8371	16.4	23
252	High-Resolution Photoelectron Imaging of IrB : Observation of a Aromatic B Ring Coordinated to a Transition Metal. *Angewandte Chemie - International Edition*, **2019**, 58, 8877-8881	16.4	19
251	Hydrated Sulfate Clusters SO(HO) (n = 1-40): Charge Distribution Through Solvation Shells and Stabilization. *Journal of Physical Chemistry B*, **2019**, 123, 4065-4069	3.4	24
250	Multiple local aromaticity of nonagermanide clusters. *Chemical Science*, **2019**, 10, 5761-5765	9.4	26
249	Chemical bonding analysis of excited states using the adaptive natural density partitioning method. *Physical Chemistry Chemical Physics*, **2019**, 21, 9590-9596	3.6	50
248	High-Resolution Photoelectron Imaging of IrB3 Observation of a Aromatic B3+ Ring Coordinated to a Transition Metal. *Angewandte Chemie*, **2019**, 131, 8969-8973	3.6	5
247	Molecular dynamics study of a new metastable allotropic crystalline form of gallium-supertetrahedral gallium. *Journal of Computational Chemistry*, **2019**, 40, 1861-1865	3.5	4
246	Two names of stability: Spherical aromatic or superatomic intermetalloid cluster [Pd3Sn8Bi6]4 *Chemical Physics*, **2019**, 522, 134-137	2.3	17
245	Superoctahedral two-dimensional metallic boron with peculiar magnetic properties. *Physical Chemistry Chemical Physics*, **2019**, 21, 19764-19771	3.6	24
244	Realization of Lewis Basic Sodium Anion in the NaBH Cluster. *Angewandte Chemie - International Edition*, **2019**, 58, 13789-13793	16.4	33
243	Realization of Lewis Basic Sodium Anion in the NaBH3 Cluster. *Angewandte Chemie*, **2019**, 131, 13927-13931	3.6	15
242	Aromatic character of [Au] and [MAu] (M = Pd, Pt) cores in ligand protected gold nanoclusters - interplay between spherical and planar aromatics. *Physical Chemistry Chemical Physics*, **2019**, 21, 25215-25219	3.6	21
241	Computationally Designed Crystal Structures of the Supertetrahedral AlX (X = B, C, Al, Si) Solids. *Journal of Physical Chemistry A*, **2019**, 123, 267-271	2.8	4

240	Electronic Transmutation (ET): Chemically Turning One Element into Another. *Chemistry - A European Journal*, **2018**, 24, 9200-9210	4.8	16
239	Computational Assessment of an Elusive Aromatic NP Molecule. *ACS Omega*, **2018**, 3, 286-291	3.9	2
238	Frontispiece: Usefulness of the Aromaticity and Antiaromaticity Concepts for Clusters and Solid-State Compounds. *Chemistry - A European Journal*, **2018**, 24,	4.8	1
237	Tug-of-war between classical and multicenter bonds in H-(Be)n-H species. *Chemical Physics Letters*, **2018**, 699, 85-87	2.5	7
236	Usefulness of the Aromaticity and Antiaromaticity Concepts for Clusters and Solid-State Compounds. *Chemistry - A European Journal*, **2018**, 24, 292-305	4.8	39
235	Realization of an Al?Al Triple Bond in the Gas-Phase Na3Al2 Cluster via Double Electronic Transmutation. *Angewandte Chemie*, **2018**, 130, 14256-14260	3.6	11
234	[Co @Ge] : Localized versus Delocalized Bonding in Two Isomeric Intermetalloid Clusters. *Chemistry - A European Journal*, **2018**, 24, 699-705	4.8	42
233	Metalcarbonyl analogues of annelated cyclooctatetraene and cyclodecapentaene derivatives with a planar core cycle: a quantum chemical study. *Physical Chemistry Chemical Physics*, **2018**, 20, 27830-27837	3.6	1
232	The structurally variable network of spin couplings and migrating paramagnetic centers in binuclear o-quinone Co complexes with biradical acene linkers: a computational DFT study. *Dalton Transactions*, **2018**, 47, 15948-15956	4.3	9
231	Difluorophosphorane-Flattened Phosphorene through Difluorination. *Journal of Physical Chemistry Letters*, **2018**, 9, 6963-6966	6.4	6
230	Symmetry Reduction upon Size Mismatch: The Non-Icosahedral Intermetalloid Cluster [Co@Ge12]3 *Chinese Journal of Chemistry*, **2018**, 36, 1165-1168	4.9	21
229	Insight into The Nature of Rim Bonds in Coronene. *Journal of Physical Chemistry A*, **2018**, 122, 8585-8590	2.8	18
228	Realization of an Al?Al Triple Bond in the Gas-Phase Na Al Cluster via Double Electronic Transmutation. *Angewandte Chemie - International Edition*, **2018**, 57, 14060-14064	16.4	20
227	Aromaticity and Antiaromaticity in Zintl Clusters. *Chemistry - A European Journal*, **2018**, 24, 14583-14597	4.8	35
226	Multicenter Bonding Effects in Oxygen Vacancy in the Bulk and on the Surface of MgO. *Journal of Physical Chemistry C*, **2018**, 122, 11933-11937	3.8	10
225	B26 The smallest planar boron cluster with a hexagonal vacancy and a complicated potential landscape. *Chemical Physics Letters*, **2017**, 683, 336-341	2.5	33
224	A stable compound of helium and sodium at high pressure. *Nature Chemistry*, **2017**, 9, 440-445	17.6	199
223	The Existence of a Designer Al=Al Double Bond in the LiAl H Cluster Formed by Electronic Transmutation. *Angewandte Chemie - International Edition*, **2017**, 56, 16593-16596	16.4	22

222	Predicting the Structure and Chemistry of Low-Dimensional Materials **2017**, 527-570		
221	Long-range magnetic response of toroidal boron structures: B and [Co@B] species. *Physical Chemistry Chemical Physics*, **2017**, 19, 26145-26150	3.6	5
220	Supertetrahedral Aluminum □A New Allotropic Ultralight Crystalline Form of Aluminum. *Journal of Physical Chemistry C*, **2017**, 121, 22187-22190	3.8	10
219	Dirac cones in two-dimensional borane. *Physical Review B*, **2017**, 96,	3.3	10
218	The Existence of a Designer Al=Al Double Bond in the LiAl2H4□Cluster Formed by Electronic Transmutation. *Angewandte Chemie*, **2017**, 129, 16820-16823	3.6	10
217	Two-dimensional magnetic boron. *Physical Review B*, **2016**, 93,	3.3	75
216	Peculiar All-Metal □Aromaticity of the [Au Sb] Anion in the Solid State. *Angewandte Chemie - International Edition*, **2016**, 55, 15344-15346	16.4	37
215	Peculiar All-Metal □Aromaticity of the [Au2Sb16]4□Anion in the Solid State. *Angewandte Chemie*, **2016**, 128, 15570-15572	3.6	19
214	Antiferromagnetic Stabilization in the Ti8O12 Cluster. *Angewandte Chemie*, **2016**, 128, 1731-1735	3.6	2
213	All-Metal Antiaromaticity in Sb4 -Type Lanthanocene Anions. *Angewandte Chemie - International Edition*, **2016**, 55, 5531-5	16.4	46
212	Beyond organic chemistry: aromaticity in atomic clusters. *Physical Chemistry Chemical Physics*, **2016**, 18, 11589-605	3.6	88
211	Nanoscale stabilization of zintl compounds: 1D ionic Li-P double helix confined inside a carbon nanotube. *Nanoscale*, **2016**, 8, 3454-60	7.7	11
210	All-Metal Antiaromaticity in Sb4-Type Lanthanocene Anions. *Angewandte Chemie*, **2016**, 128, 5621-5625	3.6	11
209	Antiferromagnetic Stabilization in the Ti8O12 Cluster. *Angewandte Chemie - International Edition*, **2016**, 55, 1699-703	16.4	19
208	Manganese-centered tubular boron cluster - MnB16 (-): A new class of transition-metal molecules. *Journal of Chemical Physics*, **2016**, 144, 154310	3.9	84
207	d-AO spherical aromaticity in Ce6O8. *Journal of Computational Chemistry*, **2016**, 37, 103-9	3.5	25
206	Supertetrahedral B80H20, C80H20, and Al80H20 analogs of dodecahedrane and their substituted molecules. *Structural Chemistry*, **2015**, 26, 223-229	1.8	12
205	Post-anti-van't Hoff-Le Bel motif in atomically thin germanium-copper alloy film. *Physical Chemistry Chemical Physics*, **2015**, 17, 17545-51	3.6	65

204	Assessing the Viability of Extended Nonmetal Atom Chains in MnF4n+2 (M=S and Se). *Angewandte Chemie*, **2015**, 127, 1496-1500	3.6	3
203	Pseudo Jahn□Teller Origin of Buckling Distortions in Two-Dimensional Triazine-Based Graphitic Carbon Nitride (g-C3N4) Sheets. *Journal of Physical Chemistry C*, **2015**, 119, 12008-12015	3.8	37
202	Ba and Sr Binary Phosphides: Synthesis, Crystal Structures, and Bonding Analysis. *Inorganic Chemistry*, **2015**, 54, 8608-16	5.1	21
201	Cobalt-centred boron molecular drums with the highest coordination number in the CoB16- cluster. *Nature Communications*, **2015**, 6, 8654	17.4	147
200	Aluminum chain in Li2Al3H8(-) as suggested by photoelectron spectroscopy and ab initio calculations. *Physical Chemistry Chemical Physics*, **2015**, 17, 26079-83	3.6	29
199	Revealing unusual chemical bonding in planar hyper-coordinate Ni2Ge and quasi-planar Ni2Si two-dimensional crystals. *Physical Chemistry Chemical Physics*, **2015**, 17, 26043-8	3.6	73
198	Li4E8 (E = P, As, Sb, Bi) Clusters: The □Quest for Realgar-Type [E8]4□Zintl Anions. *European Journal of Inorganic Chemistry*, **2015**, 2015, 5801-5807	2.3	14
197	Recent developments and future prospects of all-metal aromatic compounds. *Chemical Society Reviews*, **2015**, 44, 6519-34	58.5	95
196	Homocatenation of aluminum: alkane-like structures of Li2Al2H6 and Li3Al3H8. *Chemistry - A European Journal*, **2015**, 21, 5307-10	4.8	20
195	Classical and Multicenter Bonding in Boron: Two Faces of Boron. *Challenges and Advances in Computational Chemistry and Physics*, **2015**, 1-16	0.7	2
194	Two-dimensional Cu2Si monolayer with planar hexacoordinate copper and silicon bonding. *Journal of the American Chemical Society*, **2015**, 137, 2757-62	16.4	237
193	Assessing the viability of extended nonmetal atom chains in M(n)F(4n+2) (M=S and Se). *Angewandte Chemie - International Edition*, **2015**, 54, 1476-80	16.4	15
192	Inorganic double-helix nanotoroid of simple lithium-phosphorus species. *Chemistry - A European Journal*, **2014**, 20, 2431-5	4.8	15
191	All-nitrogen analogue of ozone: Li□N□species. *Chemistry - A European Journal*, **2014**, 20, 6636-40	4.8	11
190	Stabilization of a Cl(-)-Cl(-) anion pair in the gas phase: ab initio microsolvation study. *Journal of Physical Chemistry A*, **2014**, 118, 7375-84	2.8	9
189	A photoelectron spectroscopy and ab initio study of the structures and chemical bonding of the B25(-) cluster. *Journal of Chemical Physics*, **2014**, 141, 034303	3.9	54
188	Deciphering aromaticity in porphyrinoids via adaptive natural density partitioning. *Organic and Biomolecular Chemistry*, **2014**, 12, 6145-50	3.9	31
187	Complexes between planar boron clusters and transition metals: a photoelectron spectroscopy and ab initio study of CoB12(-) and RhB12(-). *Journal of Physical Chemistry A*, **2014**, 118, 8098-105	2.8	111

186	The I=X (X=O,N,C) double bond in hypervalent iodine compounds: is it real?. *Angewandte Chemie - International Edition*, **2014**, 53, 9617-21	16.4	52
185	Understanding boron through size-selected clusters: structure, chemical bonding, and fluxionality. *Accounts of Chemical Research*, **2014**, 47, 1349-58	24.3	382
184	Chemical Bonding in Inorganic Aromatic Compounds **2014**, 421-444		1
183	The I?X (X=O,N,C) Double Bond in Hypervalent Iodine Compounds: Is it Real?. *Angewandte Chemie*, **2014**, 126, 9771-9775	3.6	20
182	Structural changes in the series of boron-carbon mixed clusters C(x)B(10-x)- (x = 3-10) upon substitution of boron by carbon. *Journal of Chemical Physics*, **2013**, 139, 114307	3.9	23
181	Transition-metal-centered monocyclic boron wheel clusters (M Bn): a new class of aromatic borometallic compounds. *Accounts of Chemical Research*, **2013**, 46, 350-8	24.3	184
180	Solid state adaptive natural density partitioning: a tool for deciphering multi-center bonding in periodic systems. *Physical Chemistry Chemical Physics*, **2013**, 15, 5022-9	3.6	111
179	"Benzation" of graphene upon addition of monovalent chemical species. *Physical Chemistry Chemical Physics*, **2013**, 15, 6842-8	3.6	19
178	Computational probing of all-boron Li2nB2nH2n+2 polyenes. *Computational and Theoretical Chemistry*, **2013**, 1004, 5-11	2	18
177	Geometric and electronic factors in the rational design of transition-metal-centered boron molecular wheels. *Journal of Chemical Physics*, **2013**, 138, 134315	3.9	53
176	On the way to the highest coordination number in the planar metal-centred aromatic Ta B10- cluster: evolution of the structures of TaB(n)- (n = 3-8). *Journal of Chemical Physics*, **2013**, 139, 104312	3.9	48
175	A combined photoelectron spectroscopy and ab initio study of the quasi-planar B24(-) cluster. *Journal of Chemical Physics*, **2013**, 139, 144307	3.9	111
174	Electronic transmutation: Boron acquiring an extra electron becomes arbon*Chemical Physics Letters*, **2012**, 523, 83-86	2.5	53
173	Observation of the highest coordination number in planar species: decacoordinated Ta B10(-) and Nb B10(-) anions. *Angewandte Chemie - International Edition*, **2012**, 51, 2101-5	16.4	160
172	Is graphene aromatic?. *Nano Research*, **2012**, 5, 117-123	10	87
171	Deciphering Chemical Bonding in a BC3 Honeycomb Epitaxial Sheet. *Journal of Physical Chemistry C*, **2012**, 116, 3147-3152	3.8	40
170	Peculiar Transformations in the CxHxP4-x (x = 0-4) Series. *Journal of Chemical Theory and Computation*, **2012**, 8, 135-40	6.4	24
169	On the suppression mechanism of the pseudo-Jahn-Teller effect in middle E6 (E = P, As, Sb) rings of triple-decker sandwich complexes. *Inorganic Chemistry*, **2012**, 51, 8868-72	5.1	38

168	Reliable predictions of unusual molecules. *Physical Chemistry Chemical Physics*, **2012**, 14, 15943-52	3.6	13
167	A photoelectron spectroscopy and ab initio study of B21-: negatively charged boron clusters continue to be planar at 21. *Journal of Chemical Physics*, **2012**, 136, 104310	3.9	112
166	Experimental and computational evidence of octa- and nona-coordinated planar iron-doped boron clusters: Fe B8 and Fe B9 *Journal of Organometallic Chemistry*, **2012**, 721-722, 148-154	2.3	68
165	Transition-metal-centered nine-membered boron rings: M(c)B9 and M(c)B9(-) (M = Rh, Ir). *Journal of the American Chemical Society*, **2012**, 134, 165-8	16.4	132
164	B22- and B23-: all-boron analogues of anthracene and phenanthrene. *Journal of the American Chemical Society*, **2012**, 134, 18065-73	16.4	172
163	Si(6-n)C(n)H6 (n = 0-6) series: when do silabenzenes become planar and global minima?. *Journal of Physical Chemistry A*, **2012**, 116, 9591-8	2.8	51
162	Chemical Bonding in Coronene, Isocoronene, and Circumcoronene. *European Journal of Organic Chemistry*, **2012**, 2012, 3485-3491	3.2	45
161	Observation of the Highest Coordination Number in Planar Species: Decacoordinated Ta B10 and Nb B10 Anions. *Angewandte Chemie*, **2012**, 124, 2143-2147	3.6	34
160	Inorganic Double-Helix Structures of Unusually Simple Lithium Phosphorus Species. *Angewandte Chemie*, **2012**, 124, 8455-8458	3.6	14
159	Inorganic double-helix structures of unusually simple lithium-phosphorus species. *Angewandte Chemie - International Edition*, **2012**, 51, 8330-3	16.4	52
158	Analysis of why boron avoids sp2 hybridization and classical structures in the BnHn+2 series. *Chemistry - A European Journal*, **2012**, 18, 9677-81	4.8	45
157	Photoelectron spectroscopy and ab initio study of boron-carbon mixed clusters: CB9- and C2B8-. *Journal of Chemical Physics*, **2012**, 137, 234306	3.9	18
156	Unravelling phenomenon of internal rotation in B13+ through chemical bonding analysis. *Chemical Communications*, **2011**, 47, 6242-4	5.8	106
155	Deciphering the mystery of hexagon holes in an all-boron graphene sheet. *Physical Chemistry Chemical Physics*, **2011**, 13, 11575-8	3.6	122
154	All-boron analogues of aromatic hydrocarbons: B17- and B18-. *Journal of Chemical Physics*, **2011**, 134, 224304	3.9	242
153	Chemical bonding and aromaticity in trinuclear transition-metal halide clusters. *Inorganic Chemistry*, **2011**, 50, 1039-46	5.1	22
152	Recent advances in aromaticity and antiaromaticity in transition-metal systems. *Annual Reports on the Progress of Chemistry Section C*, **2011**, 107, 124		55
151	Valence isoelectronic substitution in the B8(-) and B9(-) molecular wheels by an Al dopant atom: umbrella-like structures of AlB7(-) and AlB8(-). *Journal of Chemical Physics*, **2011**, 135, 104301	3.9	62

150	Molecular wheel to monocyclic ring transition in boron-carbon mixed clusters C2B6? and C3B5?. *Physical Chemistry Chemical Physics*, **2011**, 13, 8805-10	3.6	31
149	Ab initio search for global minimum structures of neutral and anionic B4H5 clusters. Optical isomerism in B4H5 and B4H5-. *Chemical Physics Letters*, **2011**, 517, 62-67	2.5	14
148	Rational Design of Small 3D Gold Clusters. *Journal of Cluster Science*, **2011**, 22, 321-329	3	15
147	Aromatic Metal-Centered Monocyclic Boron Rings: Co B8 and Ru B9 *Angewandte Chemie*, **2011**, 123, 9506-9509	3.6	27
146	Aromatic metal-centered monocyclic boron rings: Co B8- and Ru B9-. *Angewandte Chemie - International Edition*, **2011**, 50, 9334-7	16.4	151
145	Ab initio search for global minimum structures of neutral and anionic B4H4 clusters. *Chemical Physics*, **2011**, 379, 1-5	2.3	19
144	Planarity takes over in the C(x)H(x)P(6-x) (x = 0-6) series at x = 4. *Physical Chemistry Chemical Physics* , **2011**, 13, 20549-56	3.6	36
143	Lithium cluster anions: photoelectron spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **2011**, 134, 044322	3.9	34
142	Aluminum avoids the central position in AlB9- and AlB10-: photoelectron spectroscopy and ab initio study. *Journal of Physical Chemistry A*, **2011**, 115, 10391-7	2.8	40
141	Ab initio study of lithiathion of the Si4(-) cluster. *Journal of Physical Chemistry A*, **2011**, 115, 11551-8	2.8	6
140	Planarization of B7- and B12- clusters by isoelectronic substitution: AlB6- and AlB11-. *Journal of the American Chemical Society*, **2011**, 133, 8646-53	16.4	66
139	Ab initio characterization of the flexural B3H8- anion found in the reversible dehydrogenation. *Computational and Theoretical Chemistry*, **2011**, 967, 1-4	2	29
138	Multiple Aromaticity, Multiple Antiaromaticity, and Conflicting Aromaticity in Inorganic Systems **2011**,		2
137	Flattening a puckered cyclohexasilane ring by suppression of the pseudo-Jahn-Teller effect. *Journal of Chemical Physics*, **2011**, 134, 014105	3.9	36
136	A concentric planar doubly aromatic B cluster. *Nature Chemistry*, **2010**, 2, 202-6	17.6	424
135	THE CHEMICAL BONDING OF Re3Cl9 AND REVEALED BY THE ADAPTIVE NATURAL DENSITY PARTITIONING ANALYSES. *Comments on Inorganic Chemistry*, **2010**, 31, 2-12	3.9	49
134	Planar to linear structural transition in small boron-carbon mixed clusters: C(x)B(5-x)- (x = 1-5). *Journal of the American Chemical Society*, **2010**, 132, 14104-12	16.4	33
133	Multiple Aromaticity, Multiple Antiaromaticity, and Conflicting Aromaticity in Planar Clusters. *Science and Technology of Atomic, Molecular, Condensed Matter and Biological Systems*, **2010**, 219-267		5

132	Combined experimental and theoretical investigation of three-dimensional, nitrogen-doped, gallium cluster anions. *Journal of Physical Chemistry A*, **2010**, 114, 11070-7	2.8	16
131	Flattening a Puckered Pentasilacyclopentadienide Ring by Suppression of the Pseudo Jahn□Teller Effect. *Organometallics*, **2010**, 29, 3951-3954	3.8	37
130	□Bonding in the [Pd4(□4-C9H9)(□4-C8H8)]+ sandwich complex. *Physical Chemistry Chemical Physics*, **2010**, 12, 12050-4	3.6	34
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