

Florian Weigend

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/28828/florian-weigend-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

172
papers

35,167
citations

44
h-index

187
g-index

194
ext. papers

41,005
ext. citations

6.1
avg, IF

7.92
L-index

#	Paper	IF	Citations
172	Introduction of plumbale to f-element chemistry.. <i>Chemical Science</i> , 2022 , 13, 945-954	9.4	4
171	Surprises in the Solvent-Induced Self-Ionization in the Uranium Tetrahalide UX (X = Cl, Br, I)/Ethyl Acetate System.. <i>ACS Omega</i> , 2022 , 7, 11995-12003	3.9	
170	Electronic structure and bonding in endohedral Zintl clusters.. <i>Chemical Society Reviews</i> , 2021 ,	58.5	4
169	Paramagnetic NMR Shielding Tensors and Ring Currents: Efficient Implementation and Application to Heavy Element Compounds. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 9707-9723	2.8	5
168	β-Coordination and Functionalization of the 2-Phosphaethynthiolate Anion at Lanthanum(III)**. <i>Angewandte Chemie</i> , 2021 , 133, 9620-9625	3.6	4
167	Using a Porphyrin Diacid Cation to Stabilize a Square-Pyramidal BiX (X = Br, Cl/Br) Unit. <i>Inorganic Chemistry</i> , 2021 , 60, 4352-4356	5.1	1
166	Construction of Inorganic Crown Ethers by s-Block-Metal-Templated Si-O Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10393-10401	16.4	3
165	Tracing the Jahn-Teller Distortion of C ₆₀ n In Isostructural Fullerides [M(NH ₃) ₇]C ₆₀ ? NH ₃ , M=Ba, Sr, K. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1132-1138	1.3	1
164	Near-Infrared Luminescence in Trinuclear Mixed-Metal Chalcogenolate Complexes of the Types [MTi(EPh)(PPh)] (M = Cu, Ag; E = S, Se) and [Na(thf)][Ti(SPh)]. <i>Inorganic Chemistry</i> , 2021 , 60, 8936-8945	5.1	0
163	NMR Indirect Spin-Spin Coupling Constants in a Modern Quasi-Relativistic Density Functional Framework. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 3974-3994	6.4	10
162	Highly Soluble Supertetrahedra upon Selective Partial Butylation of Chalcogenido Metalate Clusters in Ionic Liquids. <i>Angewandte Chemie</i> , 2021 , 133, 17763-17769	3.6	0
161	Reactions of ThX ₄ (X=F, Cl, Br, I) with Liquid Ammonia-Crystal Structures and a Theoretical Study of Ammine Thorium(IV) Halide Ammoniates. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 2787-2796 ^{2,3}	2.3	0
160	Highly Soluble Supertetrahedra upon Selective Partial Butylation of Chalcogenido Metalate Clusters in Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17622-17628	16.4	3
159	Substantial δ-Aromaticity in the anionic heavy-metal cluster [Th@Bi]. <i>Nature Chemistry</i> , 2021 , 13, 149-155	17.6	22
158	Photochemistry with Chlorine Trifluoride: Syntheses and Characterization of Difluorooxychloronium(V) Hexafluorido(non)metallates(V), [CLOF][MF] (M=V, Nb, Ta, Ru, Os, Ir, P, Sb). <i>Chemistry - A European Journal</i> , 2021 , 27, 2381-2392	4.8	1
157	Planar Iron Hydride Nanoclusters: Combined Spectroscopic and Theoretical Insights into Structures and Building Principles. <i>ChemistryOpen</i> , 2021 , 10, 265-271	2.3	
156	Aufbau anorganischer Kronenether durch s-Block-Metall-templatgesteuerte Si-O-Bindungsaktivierung. <i>Angewandte Chemie</i> , 2021 , 133, 10481-10490	3.6	1

155	Coordination and Functionalization of the 2-Phosphaethynthiolate Anion at Lanthanum(III)*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9534-9539	16.4	6
154	Structure and Reactivity of Alkaline Metal Bis(amido)diazadiarsetidinides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1830-1839	1.3	1
153	The Archetypal Homoleptic Lanthanide Quadruple-Decker-Synthesis, Mechanistic Studies, and Quantum Chemical Investigations. <i>Angewandte Chemie</i> , 2021 , 133, 24698	3.6	0
152	NON-Ligated N-Heterocyclic Tetrylenes. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 3591-3600	2.3	0
151	The Archetypal Homoleptic Lanthanide Quadruple-Decker-Synthesis, Mechanistic Studies, and Quantum Chemical Investigations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24493-24499	16.4	3
150	Tetrahedral [Sb(AuMe) ₄] ₃ Occurring in Multimetallic Cluster Syntheses: About the Structure-Directing Role of Methyl Groups. <i>Angewandte Chemie</i> , 2021 , 133, 25246	3.6	1
149	Tetrahedral [Sb(AuMe) ₄] ₃ Occurring in Multimetallic Cluster Syntheses: About the Structure-Directing Role of Methyl Groups. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25042-25047	16.4	1
148	The Arachno-Zintl Ion (Sn ₅ Sb ₃) ₃ and the Effects of Element Composition on the Structures of Isoelectronic Clusters: Another Facet of the Pseudo-Element Concept. <i>Angewandte Chemie</i> , 2020 , 132, 14357-14361	3.6	3
147	TURBOMOLE: Modular program suite for ab initio quantum-chemical and condensed-matter simulations. <i>Journal of Chemical Physics</i> , 2020 , 152, 184107	3.9	255
146	Atom Exchange Versus Reconstruction: (Ge As) _x (x=2, 3) as Building Blocks for the Supertetrahedral Zintl Cluster [Au ₆ (GeAs) ₄ (GeAs) ₃]. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16638-16643	16.4	17
145	Low-Valent Group 14 Phosphinidenide Complexes [(SiDipp)P] M Exhibit P-M pπ-pπ Interaction (M=Ge, Sn, Pb). <i>Chemistry - A European Journal</i> , 2020 , 26, 192-197	4.8	17
144	Preparation and luminescence properties of a M heterometallic coinage metal chalcogenide cluster. <i>Dalton Transactions</i> , 2020 , 49, 593-597	4.3	3
143	An Efficient Coupled-Perturbed Kohn-Sham Implementation of NMR Chemical Shift Computations with Local Hybrid Functionals and Gauge-Including Atomic Orbitals. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 931-943	6.4	19
142	Nuclear Spin-Spin Couplings: Efficient Evaluation of Exact Exchange and Extension to Local Hybrid Functionals. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8529-8539	2.8	10
141	Atom Exchange Versus Reconstruction: (GeAs) _x (x=2, 3) as Building Blocks for the Supertetrahedral Zintl Cluster [Au ₆ (Ge ₃ As)(Ge ₂ As ₂) ₃]. <i>Angewandte Chemie</i> , 2020 , 132, 16781	3.6	
140	A Series of Homoleptic Linear Trimethylsilylchalcogenido Cuprates, Argentates and Aurates Cat[MeSiE-M-ESiMe] (M = Cu, Ag, Au; E = S, Se). <i>Inorganic Chemistry</i> , 2020 , 59, 17565-17572	5.1	3
139	Synthesis and Reactivity of Bis(silylene)-Coordinated Calcium and Divalent Lanthanide Complexes. <i>Chemistry - A European Journal</i> , 2020 , 26, 14888-14895	4.8	6
138	Segmented Contracted Error-Consistent Basis Sets of Quadruple-Valence Quality for One- and Two-Component Relativistic All-Electron Calculations. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 5658-5674	6.4	13

137	Stabilizing a metalloid {Zn} unit within a polymetallide environment in [KZnBi]. <i>Nature Communications</i> , 2020 , 11, 5122	17.4	15
136	Rücktitelbild: Atom Exchange Versus Reconstruction: $(\text{GeAs}_4)_x$ ($x=2, 3$) as Building Blocks for the Supertetrahedral Zintl Cluster $[\text{Au}_6(\text{Ge}_3\text{As})(\text{Ge}_2\text{As}_2)_3]_3$ [<i>Angew. Chem.</i> 38/2020]. <i>Angewandte Chemie</i> , 2020 , 132, 16948	3.6	
135	The Arachno-Zintl Ion (Sn Sb) and the Effects of Element Composition on the Structures of Isoelectronic Clusters: Another Facet of the Pseudo-Element Concept. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14251-14255	16.4	10
134	Synthesis of a Molecule with Five Different Adjacent Pnictogens. <i>Chemistry - A European Journal</i> , 2020 , 26, 8536-8540	4.8	8
133	Size Matters: From Two-Dimensional Au -Tl Metallopolymers to Molecular Complexes by Simple Variation of the Steric Demand. <i>Chemistry - A European Journal</i> , 2019 , 25, 3799-3808	4.8	8
132	Magnetically Induced Current Densities in Toroidal Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15354-15365	3.8	13
131	The coordination behavior of 2,3-bis(diphenylphosphino)maleic-N-phenylimide towards copper, silver, gold and palladium. <i>Dalton Transactions</i> , 2019 , 48, 6863-6871	4.3	4
130	Low-Valent Group 14 NHC-Stabilized Phosphinidenide ate Complexes and NHC-Stabilized K/P-Clusters. <i>Chemistry - A European Journal</i> , 2019 , 25, 4914-4919	4.8	7
129	Error-consistent segmented contracted all-electron relativistic basis sets of double- and triple-zeta quality for NMR shielding constants. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16658-16664	3.6	27
128	Not Non-Coordinating at All: Coordination Compounds of the Cyclodimethylsiloxanes D (D = MeSiO; = 6, 7) and Group 2 Metal Cations. <i>Inorganic Chemistry</i> , 2019 , 58, 15417-15422	5.1	12
127	Tuning the Metal/Chalcogen Composition in Copper(I)-Chalcogenide Clusters with Cyclic (Alkyl)(amino)carbene Ligands. <i>Inorganic Chemistry</i> , 2019 , 58, 3338-3348	5.1	14
126	Enhancement of and interference among higher order multipole transitions in molecules near a plasmonic nanoantenna. <i>Nature Communications</i> , 2019 , 10, 5775	17.4	13
125	Transition-Metal-Induced Rearrangement of $[(\text{PhSn})_2\text{S}]$ Towards Ternary Cu /Sn/S or Cu /Sn/S Clusters. <i>Chemistry - A European Journal</i> , 2019 , 25, 2486-2490	4.8	13
124	NMR Shielding Tensors and Chemical Shifts in Scalar-Relativistic Local Exact Two-Component Theory. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1028-1043	6.4	27
123	Calculation of Magnetic Shielding Constants with meta-GGA Functionals Employing the Multipole-Accelerated Resolution of the Identity: Implementation and Assessment of Accuracy and Efficiency. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 191-197	6.4	30
122	(GeP): a binary analogue of P as a precursor to the ternary cluster anion $[\text{Cd}(\text{GeP})]$. <i>Chemical Communications</i> , 2018 , 54, 1421-1424	5.8	27
121	Efficient implementation of one- and two-component analytical energy gradients in exact two-component theory. <i>Journal of Chemical Physics</i> , 2018 , 148, 104110	3.9	36
120	The Identity of "Ternary" A/Tl/Pb or K/Tl/Bi Solid Mixtures and Binary Zintl Anions Isolated From Their Solutions. <i>Chemistry - A European Journal</i> , 2018 , 24, 12022-12030	4.8	19

119	[Hg Te (Te)] : A Heavy Metal Porphyrinoid Embedded in a Lamellar Structure. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8770-8774	16.4	17
118	[Hg ₄ Te ₈ (Te ₂) ₄] ₈ Ein Schwermetall-Porphyrinoid in einer lamellaren Struktur. <i>Angewandte Chemie</i> , 2018 , 130, 8906-8910	3.6	7
117	[Co@Sn ₆ Sb ₆] ₃ Ein endohedrales 12-Atom-Cluster mit einem nicht-zentrierten inneren Atom. <i>Angewandte Chemie</i> , 2018 , 130, 15585-15589	3.6	12
116	[Co@Sn Sb] : An Off-Center Endohedral 12-Vertex Cluster. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15359-15363	16.4	25
115	Optical properties of trinuclear metal chalcogenolate complexes - room temperature NIR fluorescence in [CuTi(SPh)(PPh)]. <i>Dalton Transactions</i> , 2017 , 46, 1502-1509	4.3	10
114	Vibrational circular dichroism spectra for large molecules and molecules with heavy elements. <i>Journal of Chemical Physics</i> , 2017 , 146, 054102	3.9	15
113	The chemical space of PbBi and (PbBi): A systematic study for N = 3-13. <i>Journal of Chemical Physics</i> , 2017 , 146, 034304	3.9	6
112	Bis(6-methylene-2,2'-bipyridine)phenylphosphine-A Flexible Ligand for the Construction of Trinuclear Coinage-Metal Complexes. <i>Chemistry - A European Journal</i> , 2017 , 23, 12198-12209	4.8	14
111	Calculations of current densities and aromatic pathways in cyclic porphyrin and isoporphyrin arrays. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12794-12803	3.6	14
110	An NHC-phosphinidanyl as a synthon for new group 13/15 compounds. <i>Chemical Communications</i> , 2017 , 53, 7620-7623	5.8	28
109	Synthesis and Reactivity of NHC-Stabilized Iron(II)Mesityl Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2600-2616	2.3	12
108	A N-Heterocyclic Carbene-Stabilized Coinage Metal-Chalcogenide Framework with Tunable Optical Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14045-14048	16.4	50
107	Synthesis and Optical Properties of [CuE(SnPh)(PPhEt)] (E = S, Se, Te) Cluster Molecules. <i>Inorganic Chemistry</i> , 2017 , 56, 9330-9336	5.1	10
106	Segmented Contracted Error-Consistent Basis Sets of Double- and Triple-Valence Quality for One- and Two-Component Relativistic All-Electron Calculations. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3696-3705	6.4	74
105	Coinage Metal Complexes of Bis-Alkynyl-Functionalized N-Heterocyclic Carbenes: Reactivity, Photophysical Properties, and Quantum Chemical Investigations. <i>Chemistry - A European Journal</i> , 2017 , 23, 1591-1603	4.8	12
104	A combined experimental and quantum chemical study on thallium(I) tris(pyrazolyl)methanide. <i>Polyhedron</i> , 2017 , 125, 74-79	2.7	5
103	{[CuSn ₅ Sb ₃](²⁻)} ₂ : A Dimer of Inhomogeneous Superatoms. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11775-80	16.4	37
102	A Controlled Route to a Luminescent 3 d -5 d Sulfido Cluster Containing Unique AuCu (BS) Motifs. <i>Chemistry - A European Journal</i> , 2016 , 22, 18378-18382	4.8	6

101	Enhancing Electrochemiluminescence of Chalcogenide Clusters by Means of Mn Replacement. <i>Electrochimica Acta</i> , 2016 , 210, 79-86	6.7	10
100	Understanding of multimetallic cluster growth. <i>Nature Communications</i> , 2016 , 7, 10480	17.4	76
99	Main Group Metal-Actinide Magnetic Coupling and Structural Response Upon U(4+) Inclusion Into Bi, Tl/Bi, or Pb/Bi Cages. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9033-6	16.4	57
98	Quasi-Particle Self-Consistent GW for Molecules. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2528-41	6.4	90
97	Quantum Chemical Investigations of Clusters of Heavy Metal Atoms. <i>Structure and Bonding</i> , 2016 , 41-62	0.9	1
96	$[[\text{CuSn}_5\text{Sb}_3]_2]_2$: Ein Dimer inhomogener Superatome. <i>Angewandte Chemie</i> , 2016 , 128, 11950-11955	3.6	14
95	Two-component hybrid time-dependent density functional theory within the Tamm-Dancoff approximation. <i>Journal of Chemical Physics</i> , 2015 , 142, 034116	3.9	12
94	Simple but effective: thermally stable Cu-ESiMe ₃ via NHC ligation. <i>Chemical Communications</i> , 2015 , 51, 8361-4	5.8	26
93	Error-Balanced Segmented Contracted Gaussian Basis Sets 2015 , 181-194		1
92	$[(\text{Pb}_6\text{I}_8)\{\text{Mn}(\text{CO})_5\}_6]^{2-}$: an octahedral (M ₆ X ₈)-like cluster with inverted bonding. <i>Inorganic Chemistry</i> , 2015 , 54, 3989-94	5.1	13
91	GW100: Benchmarking G ₀ W ₀ for Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5665-87	6.4	207
90	Ionic-radius-driven selection of the main-group-metal cage for intermetalloid clusters $[\text{Ln}@\text{Pb}_x\text{Bi}_{14-x}]^{(q-)}$ and $[\text{Ln}@\text{Pb}_y\text{Bi}_{13-y}]^{(q-)}$ ($x/q=7/4, 6/3$; $y/q=4/4, 3/3$). <i>Chemistry - A European Journal</i> , 2015 , 21, 386-94	4.8	38
89	Off-Diagonal Self-Energy Terms and Partially Self-Consistency in GW Calculations for Single Molecules: Efficient Implementation and Quantitative Effects on Ionization Potentials. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5152-60	6.4	36
88	Luminescence in phosphine-stabilized copper chalcogenide cluster molecules--a comparative study. <i>Inorganic Chemistry</i> , 2015 , 54, 9413-22	5.1	25
87	$[\text{PbSe}]_n$: a heavy CO homologue as an unexpected ligand. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11283-8	16.4	27
86	$[\text{V}@\text{Ge}_8\text{As}_4]^{3-}$ and $[\text{Nb}@\text{Ge}_8\text{As}_6]^{3-}$: encapsulation of electron-poor transition metal atoms. <i>Chemical Communications</i> , 2015 , 51, 3866-9	5.8	33
85	$[\text{PbSe}]_n$: ein schweres CO-Homolog als ungewöhnlicher Ligand. <i>Angewandte Chemie</i> , 2015 , 127, 11437-11442	3.6	11
84	One-Electron Energies from the Two-Component GW Method. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 969-79	6.4	16

83	Reduction of rhenates(VII) with hydrogen chloride in alcohols: The structural aspects of the trans-tetrachloridomethoxidoxidorhenate(VI) products. <i>Inorganica Chimica Acta</i> , 2014 , 411, 26-29	2.7	0
82	Red-luminescent biphosphine stabilized $\text{M}_2\text{Bi}_2\text{M}$ cluster molecules. <i>Chemical Communications</i> , 2014 , 50, 11043-5	5.8	44
81	Superatomic Orbitals under Spin-Orbit Coupling. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3286-9	6.4	99
80	Slow magnetic relaxation in trigonal-planar mononuclear Fe(II) and Co(II) bis(trimethylsilyl)amido complexes--a comparative study. <i>Inorganic Chemistry</i> , 2014 , 53, 1962-74	5.1	128
79	Phosphorescence lifetimes of organic light-emitting diodes from two-component time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2014 , 141, 224302	3.9	34
78	Extending DFT-based genetic algorithms by atom-to-place re-assignment via perturbation theory: a systematic and unbiased approach to structures of mixed-metallic clusters. <i>Journal of Chemical Physics</i> , 2014 , 141, 134103	3.9	30
77	Turbomole. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 91-100	7.9	710
76	Influence of vibrations on electron transport through nanoscale contacts. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2468-2480	1.3	21
75	The GW-Method for Quantum Chemistry Applications: Theory and Implementation. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 232-46	6.4	174
74	An efficient implementation of two-component relativistic exact-decoupling methods for large molecules. <i>Journal of Chemical Physics</i> , 2013 , 138, 184105	3.9	121
73	Implementation of Two-Component Time-Dependent Density Functional Theory in TURBOMOLE. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 5341-8	6.4	45
72	Efficient two-component self-consistent field procedures and gradients: implementation in TURBOMOLE and application to. <i>Molecular Physics</i> , 2013 , 111, 2617-2624	1.7	28
71	Unusual 14-electron fragments $[\text{Pd}(\text{Bi})_3\text{Pbx}]^{(x+1)-}$ as pseudo lead atoms in closo- $[\text{Pd}@\text{Pd}_2\text{Pb}_{10}\text{Bi}_6]^{4-}$. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13544-8	16.4	43
70	Ungewöhnliche 14-Elektronen-Fragmente $[\text{Pd}(\text{Bi})_3\text{Pbx}]^{(x+1)-}$ als Pseudo-Bleiatome in closo- $[\text{Pd}@\text{Pd}_2\text{Pb}_{10}\text{Bi}_6]^{4-}$. <i>Angewandte Chemie</i> , 2013 , 125, 13786-13790	3.6	26
69	Seminumerical calculation of the Hartree-Fock exchange matrix: application to two-component procedures and efficient evaluation of local hybrid density functionals. <i>Journal of Computational Chemistry</i> , 2012 , 33, 810-6	3.5	47
68	Doped semimetal clusters: ternary, intermetalloid anions $[\text{Ln}@\text{Sn}_7\text{Bi}_7]^{4-}$ and $[\text{Ln}@\text{Sn}_4\text{Bi}_9]^{4-}$ (Ln = La, Ce) with adjustable magnetic properties. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1181-91	16.4	78
67	Zinc chalcogenolate complexes as precursors to ZnE and Mn/ZnE (E = S, Se) clusters. <i>Inorganic Chemistry</i> , 2012 , 51, 2747-56	5.1	26
66	Subtle impact of atomic ratio, charge and lewis basicity on structure selection and stability: the Zintl anion $[(\text{La}@\text{In}_2\text{Bi}_{11})(\text{EBi})_2(\text{La}@\text{In}_2\text{Bi}_{11})]^{6-}$. <i>Chemistry - A European Journal</i> , 2012 , 18, 13589-95	4.8	43

65	Making practical use of the pseudo-element concept: an efficient way to ternary intermetalloid clusters by an isoelectronic Pb(-)-Bi combination. <i>Chemical Communications</i> , 2012 , 48, 11295-7	5.8	53
64	Error-Balanced Segmented Contracted Basis Sets of Double- η to Quadruple- η Valence Quality for the Lanthanides. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4062-8	6.4	63
63	Probing the Influence of Size and Composition on the Photoelectron Spectra of Cadmium Chalcogenide Cluster Dianions. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13800-13809	3.8	14
62	Structures of small bismuth cluster cations. <i>Journal of Chemical Physics</i> , 2012 , 136, 154309	3.9	29
61	Structures and properties of neutral gallium clusters: a theoretical investigation. <i>Journal of Chemical Physics</i> , 2011 , 135, 044314	3.9	36
60	Jahn-Teller Distortion Versus Spin-Orbit Splitting: Symmetry of Small Heavy-Metal Atom Clusters. <i>Journal of Cluster Science</i> , 2011 , 22, 355-363	3	10
59	Phosphorescence energies of organic light-emitting diodes from spin-flip Tamm-Dancoff approximation time-dependent density functional theory. <i>ChemPhysChem</i> , 2011 , 12, 3331-6	3.2	21
58	Acceleration of self-consistent-field convergence by combining conventional diagonalization and a diagonalization-free procedure. <i>Journal of Computational Chemistry</i> , 2011 , 32, 3129-34	3.5	6
57	Quantum chemical treatments of metal clusters. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 1245-63	3	34
56	Segmented contracted basis sets for one- and two-component Dirac-Fock effective core potentials. <i>Journal of Chemical Physics</i> , 2010 , 133, 174102	3.9	134
55	Bis(trimethylsilylamide) transition-metal complexes as starting reagents in the synthesis of ternary Cd-Mn-Se cluster complexes. <i>Inorganic Chemistry</i> , 2010 , 49, 7331-9	5.1	20
54	Chalcogen chemistry of group(IV) closo-dodecaborates, synthesis, theory and coordination chemistry. <i>Dalton Transactions</i> , 2010 , 39, 7504-12	4.3	14
53	Observation and Interpretation of Structural Variety in Alkaline Earth Metal Derivatives of Diphosphanyldisiloxane. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 258-265	2.3	14
52	1-D-Tin(II) Phenylchalcogenolato Complexes $[Sn(EPh)_2]$ (E = S, Se, Te) [Synthesis, Structures, Quantum Chemical Studies and Thermal Behaviour. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 410-418	2.3	23
51	Coordination and oligomerisation of the siloxanephosphane cage compound $[P(2)\{(SiMe(2))(2)O\}(3)]$. <i>Chemistry - A European Journal</i> , 2009 , 15, 9642-6	4.8	9
50	Synthesis, Crystal Structure and Bond Situation of $[Co_7Se_7Cp_3(CO)_4]$ (Cp = Cyclopentadienyl). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009 , 635, 2288-2293	1.3	
49	How photoelectron spectroscopy and quantum chemical studies can help understanding the magnetic properties of molecules: an example from the class of Cu(II)-bis(oxamato) complexes. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10051-4	3.4	3
48	Partial double bond character in chalcogen compounds of stanna-closo-dodecaborate. <i>Dalton Transactions</i> , 2009 , 1055-62	4.3	13

47	Neutral and cationic main group element cages of germanium(II) with pyrazolyl ligands: solid state structures, DFT calculations and advanced solution NMR investigations. <i>Dalton Transactions</i> , 2009 , 5335-47	4.3	9
46	Approximated electron repulsion integrals: Cholesky decomposition versus resolution of the identity methods. <i>Journal of Chemical Physics</i> , 2009 , 130, 164106	3.9	144
45	Self-consistent treatment of spin-orbit interactions with efficient Hartree-Fock and density functional methods. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1748-56	3.6	125
44	Binding energy and preferred adsorption sites of CO on gold and silver-gold cluster cations: adsorption kinetics and quantum chemical calculations. <i>Faraday Discussions</i> , 2008 , 138, 393-406; discussion 421-34	3.6	52
43	Unique manganese phosphorus complex with a Mn ₅ P ₇ core: synthesis, molecular structure, and magnetic properties. <i>Inorganic Chemistry</i> , 2008 , 47, 1460-4	5.1	14
42	Electron paramagnetic resonance and density-functional theory studies of Cu(II)-bis(oxamato) complexes. <i>Inorganic Chemistry</i> , 2008 , 47, 6633-44	5.1	21
41	Hartree-Fock exchange fitting basis sets for H to Rn. <i>Journal of Computational Chemistry</i> , 2008 , 29, 167-75	5.5	436
40	Magnetic and optical properties of Cu(II)-bis(oxamato) complexes: combined quantum chemical density functional theory and vibrational spectroscopy studies. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 5585-93	3.4	10
39	Stepwise synthesis and coordination compound of an inorganic cryptand. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4775-9	16.4	25
38	Ein anorganischer Cryptand: schrittweise Synthese und Koordination von Li ⁺ -Ionen. <i>Angewandte Chemie</i> , 2007 , 119, 4859-4863	3.6	15
37	Spin density distribution in oxamato-type transition metal complexes. <i>Polyhedron</i> , 2007 , 26, 1773-1775	2.7	8
36	Quantum chemistry calculations for molecules coupled to reservoirs: formalism, implementation, and application to benzenedithiol. <i>Journal of Chemical Physics</i> , 2007 , 126, 174101	3.9	81
35	Silver aggregation caused by Stanna-closo-dodecaborate coordination: syntheses, solid-state structures and theoretical studies. <i>Inorganic Chemistry</i> , 2007 , 46, 6775-84	5.1	32
34	Basis-set extensions for two-component spin-orbit treatments of heavy elements. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 4862-5	3.6	54
33	Accurate Coulomb-fitting basis sets for H to Rn. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 1057-65	3.6	3695
32	Reactions of mixed silver-gold cluster cations Ag _m Au _n + (m+n=4,5,6) with CO: radiative association kinetics and density functional theory computations. <i>Journal of Chemical Physics</i> , 2006 , 125, 104308	3.9	55
31	Structural relaxation in charged metal surfaces and cluster ions. <i>Small</i> , 2006 , 2, 1497-503	11	56
30	Ab Initio Calculations of Clusters. <i>Lecture Notes in Physics</i> , 2005 , 205-219	0.8	

29	Unusual syntheses, structures, and electronic properties of compounds containing ternary, T3-type supertetrahedral M/Sn/S anions $[M_5Sn(\mu_3-S)_4(SnS_4)_4]^{10-}$ (M = Zn, Co). <i>Inorganic Chemistry</i> , 2005 , 44, 5686-95	5.1	83
28	Balanced basis sets of split valence, triple zeta valence and quadruple zeta valence quality for H to Rn: Design and assessment of accuracy. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3297-305	3.6	14310
27	Atom-type assignment in molecules and clusters by perturbation theory-A complement to X-ray structure analysis. <i>Chemistry - A European Journal</i> , 2005 , 11, 3559-64	4.8	23
26	Binding energies of CO on gold cluster cations Au_n^+ (n=1-65): a radiative association kinetics study. <i>Journal of Chemical Physics</i> , 2005 , 122, 104702	3.9	99
25	A single-molecule diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8815-20	11.5	402
24	Conductance of molecular wires and transport calculations based on density-functional theory. <i>Physical Review B</i> , 2004 , 69,	3.3	176
23	Ortho-chalcogenostannates as ligands: syntheses, crystal structures, electronic properties, and magnetism of novel compounds containing ternary anionic substructures $[M_4(\mu_4-Se)(SnSe_4)_4]^{10-}$ (M=Mn, Zn, Cd, Hg), $3(\text{infinity})[[Hg_4(\mu_4-Se)(SnSe_4)_3]^{6-}]$, or $1(\text{infinity})[[HgSnSe_4]^{2-}]$. <i>Chemistry - A European Journal</i> , 2004 , 10, 5147-57	4.8	94
22	Atom distributions in binary atom clusters: a perturbational approach and its validation in a case study. <i>Journal of Chemical Physics</i> , 2004 , 121, 10380-4	3.9	37
21	Syntheses of the 47 electron clusters $[(Cp^*Fe)_3(\mu_3-X)_2]$ (X = S, Se) and the First Fe/Sn/Se Heterocubane Cluster $[(CpFe)_3(SnCl_3)(\mu_3-Se)_4] \times DME$ by the use of chalcogenostannate salts. <i>Inorganic Chemistry</i> , 2004 , 43, 4595-603	5.1	17
20	Gaussian basis sets of quadruple zeta valence quality for atoms H-Rn. <i>Journal of Chemical Physics</i> , 2003 , 119, 12753-12762	3.9	784
19	Gold-Gold Interaction in Stannaborate $[SnB_{11}H_{11}]^{2-}$ Coordination Chemistry. <i>Angewandte Chemie</i> , 2003 , 115, 1539-1543	3.6	29
18	Gold-gold interaction in stannaborate $[SnB_{11}H_{11}]^{2-}$ coordination chemistry. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1501-5	16.4	45
17	Coherent transport through a molecular wire: DFT calculation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 255-257	3	11
16	Synthese, Kristallstrukturen und quantenchemische Untersuchung von Verbindungen mit leiterartigem Al_4P_4 - und hexagonal prismatischem Al_6P_6 -Grundgerüst. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002 , 628, 389-393	1.3	24
15	Theoretical Investigation of Binary and Ternary Metal Clusters derived from $[Y_{10}M]^{n+}$ Ions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002 , 628, 2478-2482	1.3	13
14	Electronic transport through single conjugated molecules. <i>Chemical Physics</i> , 2002 , 281, 113-125	2.3	154
13	Efficient use of the correlation consistent basis sets in resolution of the identity MP2 calculations. <i>Journal of Chemical Physics</i> , 2002 , 116, 3175-3183	3.9	1456
12	A fully direct RI-HF algorithm: Implementation, optimised auxiliary basis sets, demonstration of accuracy and efficiency. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4285-4291	3.6	1005

11	Theoretical study on clusters of magnesium. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 711-719	3.6	112
10	Synthesis, structures and theoretical investigation of. <i>Chemistry - A European Journal</i> , 2000 , 6, 545-51	4.8	9
9	[{Ag(tBuNH ₂) ₂ } ₄][{Ag(tBuNH ₂)(tBuN=CHCH ₃) ₂ }[Ag ₁₂ (CF ₃ CO ₂) ₁₄] [eine Verbindung mit einem Ag ₁₂₈₊ -Clusterkern. <i>Angewandte Chemie</i> , 2000 , 112, 4085-4089	3.6	9
8	[{Ag(tBuNH) }][{Ag(tBuNH)(tBuN=CHCH) }][Ag (CF CO)]: A Compound with an Ag Cluster Core. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3925-3929	16.4	26
7	CC2 excitation energy calculations on large molecules using the resolution of the identity approximation. <i>Journal of Chemical Physics</i> , 2000 , 113, 5154	3.9	1207
6	Ab initio treatment of (H ₂ O) ₂ ⁻ and (H ₂ O) ₆ ⁻ . <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4537-4540	3.6	28
5	RI-MP2: optimized auxiliary basis sets and demonstration of efficiency. <i>Chemical Physics Letters</i> , 1998 , 294, 143-152	2.5	2175
4	Auxiliary basis sets for main row atoms and transition metals and their use to approximate Coulomb potentials. <i>Theoretical Chemistry Accounts</i> , 1997 , 97, 119-124	1.9	2788
3	RI-MP2: first derivatives and global consistency. <i>Theoretical Chemistry Accounts</i> , 1997 , 97, 331-340	1.9	1229
2	A Square As ₄ and a Prismatic As ₆ Structure as Complex Ligands. <i>Chemistry - A European Journal</i> , 1997 , 3, 1494-1498	4.8	34
1	Role of oxygen in the determination of oxide forming elements by electrothermal atomic absorption spectrometry Part 3. Effect of oxygen on the reactions of tin in uncoated, pyrolytically coated and zirconium carbide coated graphite tube atomizers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996 , 51, 1133-1137	3.1	11