

Antti J Karttunen

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232
ext. papers

3,640
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
200	Modulation of metallophilic bonds: solvent-induced isomerization and luminescence vapochromism of a polymorphic Au-Cu cluster. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6564-7	16.4	117
199	Structural principles of semiconducting Group 14 clathrate frameworks. <i>Inorganic Chemistry</i> , 2011 , 50, 1733-42	5.1	99
198	Icosahedral Au(72): a predicted chiral and spherically aromatic golden fullerene. <i>Chemical Communications</i> , 2008 , 465-7	5.8	95
197	Halogen Bonding to Amplify Luminescence: A Case Study Using a Platinum Cyclometalated Complex. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14057-60	16.4	82
196	Supramolecular luminescent gold(I)-copper(I) complexes: self-assembly of the Au(x)Cu(y) clusters inside the [Au ₃ (diphosphine) ₃] ³⁺ triangles. <i>Inorganic Chemistry</i> , 2008 , 47, 9478-88	5.1	75
195	Octanuclear gold(I) alkynyl-diphosphine clusters showing thermochromic luminescence. <i>Chemical Communications</i> , 2011 , 47, 5533-5	5.8	72
194	Intensely luminescent alkynyl-phosphine gold(I)-copper(I) complexes: synthesis, characterization, photophysical, and computational studies. <i>Inorganic Chemistry</i> , 2009 , 48, 2094-102	5.1	70
193	Synthesis, Characterization, Photophysical, and Theoretical Studies of Supramolecular Gold(I)Silver(I) Alkynyl-Phosphine Complexes. <i>Organometallics</i> , 2009 , 28, 1369-1376	3.8	60
192	Halide-directed assembly of multicomponent systems: highly ordered Au(I)-Ag(I) molecular aggregates. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8864-6	16.4	58
191	An intensely and oxygen independent phosphorescent gold(I)-silver(I) complex: "trapping" an Au ₈ Ag ₁₀ oligomer by two gold-alkynyl-diphosphine molecules. <i>Chemical Communications</i> , 2009 , 2860-2	5.8	55
190	Atomic-Level Structural and Electronic Properties of Hybrid Inorganic/Organic ZnO:Hydroquinone Superlattices Fabricated by ALD/MLD. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13105-13114	3.8	54
189	Harnessing Fluorescence versus Phosphorescence Branching Ratio in (Phenyl) _n -Bridged (n = 0-5) Bimetallic Au(I) Complexes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9623-9632	3.8	49
188	Toward an Accurate Estimate of the Exfoliation Energy of Black Phosphorus: A Periodic Quantum Chemical Approach. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 131-6	6.4	46
187	Rational reductive fusion of two heterometallic clusters: formation of a highly stable, intensely phosphorescent Au-Ag aggregate and application in two-photon imaging in human mesenchymal stem cells. <i>Chemical Communications</i> , 2010 , 46, 1440-2	5.8	46
186	Inorganic/Organic superlattice thin films for thermoelectrics. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10349-10361	7.1	45
185	Intensely luminescent homoleptic alkynyl decanuclear gold(I) clusters and their cationic octanuclear phosphine derivatives. <i>Inorganic Chemistry</i> , 2012 , 51, 7392-403	5.1	45
184	Reactions of beryllium halides in liquid ammonia: the tetraammineberyllium cation [Be(NH ₃) ₄] ²⁺ , its hydrolysis products, and the action of Be ²⁺ as a fluoride-ion acceptor. <i>Chemistry - A European Journal</i> , 2012 , 18, 2131-42	4.8	44

183	Highly luminescent octanuclear Au(I)-Cu(I) clusters adopting two structural motifs: the effect of aliphatic alkynyl ligands. <i>Chemistry - A European Journal</i> , 2011 , 17, 11456-66	4.8	44
182	Remarkably stable icosahedral fullerenes: C ₈₀ H ₈₀ and C ₁₈₀ H ₁₈₀ . <i>ChemPhysChem</i> , 2006 , 7, 1661-3	3.2	43
181	Icosahedral and ring-shaped allotropes of phosphorus. <i>Chemistry - A European Journal</i> , 2007 , 13, 5232-7	4.8	42
180	Tetragold(I) complexes: solution isomerization and tunable solid-state luminescence. <i>Inorganic Chemistry</i> , 2014 , 53, 12720-31	5.1	41
179	Soluble Zintl phases A ₁₄ ZnGe ₁₆ (A = K, Rb) featuring [(B-Ge ₄)Zn(B-Ge ₄)] ₆ - and [Ge ₄] ₄ - clusters and the isolation of [(MesCu) ₂ (B,B-Ge ₄) ₄]-: the missing link in the solution chemistry of tetrahedral group 14 element Zintl clusters. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14450-60	16.4	40
178	Icosahedral Polysilane Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2545-2547	3.8	38
177	Flexible Thermoelectric ZnO/Organic Superlattices on Cotton Textile Substrates by ALD/MLD. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600459	6.4	37
176	Luminescent Triphosphine Cyanide d(10) Metal Complexes. <i>Inorganic Chemistry</i> , 2016 , 55, 2174-84	5.1	36
175	Bulk Synthesis and Structure of a Microcrystalline Allotrope of Germanium (m-allo-Ge). <i>Chemistry of Materials</i> , 2011 , 23, 4578-4586	9.6	36
174	Coinage metal complexes supported by the tri- and tetraphosphine ligands. <i>Inorganic Chemistry</i> , 2014 , 53, 4705-15	5.1	33
173	Stepwise 1D growth of luminescent Au(I)-Ag(I) phosphine-alkynyl clusters: synthesis, photophysical, and theoretical studies. <i>Inorganic Chemistry</i> , 2011 , 50, 2395-403	5.1	33
172	Assembly of the heterometallic Au(I)-M(I) (M = Cu, Ag) clusters containing the dialkyne-derived diphosphines: synthesis, luminescence and theoretical studies. <i>Dalton Transactions</i> , 2010 , 39, 9022-31	4.3	32
171	Ab initio study of the lattice thermal conductivity of Cu ₂ O using the generalized gradient approximation and hybrid density functional methods. <i>Physical Review B</i> , 2017 , 96,	3.3	31
170	On copper(I) fluorides, the cuprophilic interaction, the preparation of copper nitride at room temperature, and the formation mechanism at elevated temperatures. <i>Chemistry - A European Journal</i> , 2015 , 21, 3290-303	4.8	29
169	Solid-state luminescence of Au-Cu-alkynyl complexes induced by metallophilicity-driven aggregation. <i>Chemistry - A European Journal</i> , 2013 , 19, 5104-12	4.8	28
168	Synthesis, structure, and electronic properties of 4H-germanium. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1780		28
167	Ambipolar Phosphine Derivatives to Attain True Blue OLEDs with 6.5% EQE. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10968-76	9.5	28
166	Synthesis, photophysical and theoretical studies of luminescent silver(I)-copper(I) alkynyl-diphosphine complexes. <i>Dalton Transactions</i> , 2010 , 39, 2395-403	4.3	27

- 165 Exfoliation Energy of Black Phosphorus Revisited: A Coupled Cluster Benchmark. *Journal of Physical Chemistry Letters*, **2017**, 8, 1290-1294 6.4 26
- 164 Cyclometalated Platinum(II) Cyanometallates: Luminescent Blocks for Coordination Self-Assembly. *Inorganic Chemistry*, **2017**, 56, 4460-4468 5.1 26
- 163 Two-, one-, and zero-dimensional elemental nanostructures based on Ge(9)-clusters. *ChemPhysChem*, **2010**, 11, 1944-50 3.2 26
- 162 Improvement of the Photophysical Performance of Platinum-Cyclometalated Complexes in Halogen-Bonded Adducts. *Chemistry - A European Journal*, **2018**, 24, 11475-11484 4.8 25
- 161 Structural principles of polyhedral allotropes of phosphorus. *ChemPhysChem*, **2008**, 9, 2550-8 3.2 25
- 160 Layer-by-layer design of nanostructured thermoelectrics: First-principles study of ZnO:organic superlattices fabricated by ALD/MLD. *Nano Energy*, **2016**, 22, 338-348 17.1 24
- 159 Thermoelectric Properties of p-Type CuO, CuO, and NiO from Hybrid Density Functional Theory. *Journal of Physical Chemistry C*, **2018**, 122, 15180-15189 3.8 24
- 158 A Facile Molecular Machine: Optically Triggered Counterion Migration by Charge Transfer of Linear Donor-Acceptor Phosphonium Fluorophores. *Angewandte Chemie - International Edition*, **2019**, 58, 13456-13465 16.4 24
- 157 Reversible protonation of amine-functionalized luminescent Au-Cu clusters: characterization, photophysical and theoretical studies. *Dalton Transactions*, **2010**, 39, 2676-83 4.3 24
- 156 Charged Si Clusters in Neat Solids and the Detection of [H Si] in Solution: A Combined NMR, Raman, Mass Spectrometric, and Quantum Chemical Investigation. *Angewandte Chemie - International Edition*, **2018**, 57, 12950-12955 16.4 23
- 155 A combined metal-halide/metal flux synthetic route towards type-I clathrates: crystal structures and thermoelectric properties of A₈Al₈Si₃₈ (A = K, Rb, and Cs). *Chemistry - A European Journal*, **2014**, 20, 15077-88 4.8 23
- 154 Sky-blue luminescent Au(I)-Ag(I) alkynyl-phosphine clusters. *Inorganic Chemistry*, **2013**, 52, 3663-73 5.1 23
- 153 Heterometallic Cluster-Capped Tetrahedral Assemblies with Postsynthetic Modification of the Metal Cores. *Angewandte Chemie - International Edition*, **2018**, 57, 14154-14158 16.4 23
- 152 Lithium Aryloxide Thin Films with Guest-Induced Structural Transformation by ALD/MLD. *Chemistry - A European Journal*, **2017**, 23, 2988-2992 4.8 22
- 151 Harnessing Fluorescence versus Phosphorescence Ratio via Ancillary Ligand Fine-Tuned MLCT Contribution. *Journal of Physical Chemistry C*, **2016**, 120, 12196-12206 3.8 22
- 150 RbBrF₄ Revisited. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2015**, 641, 2593-2598 1.3 22
- 149 Silver Alkynyl-Phosphine Clusters: An Electronic Effect of the Alkynes Defines Structural Diversity. *Organometallics*, **2017**, 36, 480-489 3.8 21
- 148 Luminescent Au(I) Triphosphane Clusters That Contain Extended Linear Arylacetylenes. *European Journal of Inorganic Chemistry*, **2012**, 2012, 4048-4056 2.3 21

147	BrF and BrF: peculiar anions showing δ and ϵ bridging F-atoms. <i>Chemical Communications</i> , 2016 , 52, 12040-12043	5.8	21
146	Electronic and Vibrational Properties of TiS ₂ , ZrS ₂ , and HfS ₂ : Periodic Trends Studied by Dispersion-Corrected Hybrid Density Functional Methods. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26835-26844	3.8	21
145	Alkali Metals Extraction Reactions with the Silicides Li ₁₅ Si ₄ and Li ₃ NaSi ₆ : Amorphous Si versus al-Si. <i>Chemistry of Materials</i> , 2014 , 26, 6603-6612	9.6	20
144	Synthesis, characterization and photophysical properties of PPh ₂ -C ₂ -(C ₆ H ₄) _n -C ₂ -PPh ₂ based bimetallic Au(I) complexes. <i>Dalton Transactions</i> , 2012 , 41, 937-45	4.3	20
143	Luminescent Gold(I) Alkynyl Clusters Stabilized by Flexible Diphosphine Ligands. <i>Organometallics</i> , 2014 , 33, 2363-2371	3.8	19
142	Synthesis, electrochemical and theoretical studies of the Au(I)-Cu(I) heterometallic clusters bearing ferrocenyl groups. <i>Dalton Transactions</i> , 2009 , 8392-8	4.3	19
141	Structural Characteristics of Perhydrogenated Boron Nitride Fullerenes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10032-10037	3.8	19
140	Triphosphine-supported bimetallic Au(I)-M(I) (M = Ag, Cu) alkynyl clusters. <i>Dalton Transactions</i> , 2014 , 43, 3383-94	4.3	18
139	Structural and Electronic Trends among Group 15 Elemental Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12220-12224	3.8	18
138	Copper-mediated phospho-annulation to attain water-soluble polycyclic luminophores. <i>Chemical Communications</i> , 2017 , 53, 10954-10957	5.8	17
137	Structural and Electronic Characteristics of Perhydrogenated Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2418-2422	3.8	17
136	Anionic Siliconoids from Zintl Phases: R Si with Six and R Si with Seven Unsubstituted Exposed Silicon Cluster Atoms (R=Si(tBu) H). <i>Chemistry - A European Journal</i> , 2018 , 24, 19171-19174	4.8	17
135	Ab initio lattice dynamical studies of silicon clathrate frameworks and their negative thermal expansion. <i>Physical Review B</i> , 2014 , 89,	3.3	16
134	Metallophilicity-assisted assembly of phosphine-based cage molecules. <i>Dalton Transactions</i> , 2014 , 43, 6236-43	4.3	16
133	Synthesis and Characterization of Barium Tetrafluoridobromate(III) Ba(BrF ₄) ₂ . <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 6261-6267	2.3	16
132	Slicing Diamond-A Guide to Deriving sp ⁻ Si Allotropes. <i>Chemistry - A European Journal</i> , 2017 , 23, 2734-2747	4.78	15
131	Modeling of Substitutional Defects in Magnesium Dichloride Polymerization Catalyst Support. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7957-7961	3.8	15
130	Cages and needles of group 13-15 binary hydrides. <i>ChemPhysChem</i> , 2007 , 8, 62-3	3.2	15

129	Icosahedral and ring-shaped allotropes of arsenic. <i>ChemPhysChem</i> , 2007 , 8, 2373-8	3.2	15
128	Thermoelectric applications for energy harvesting in domestic applications and micro-production units. Part I: Thermoelectric concepts, domestic boilers and biomass stoves. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 98, 519-544	16.2	14
127	Hydrogenated Monolayer Sheets of Group 13-15 Binary Compounds: Structural and Electronic Characteristics. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 229-234	3.8	14
126	Dibenzothiophene-platinated complexes: probing the effect of ancillary ligands on the photophysical performance. <i>Dalton Transactions</i> , 2017 , 46, 3895-3905	4.3	13
125	Atomic/molecular layer deposition and electrochemical performance of dilithium 2-aminoterephthalate. <i>Dalton Transactions</i> , 2020 , 49, 1591-1599	4.3	13
124	Luminescence Thermochromism of Gold(I) Phosphane-Iodide Complexes: A Rule or an Exception?. <i>Chemistry - A European Journal</i> , 2018 , 24, 3021-3029	4.8	13
123	One-Dimensional Phosphorus Nanostructures: from Nanorings to Nanohelices. <i>Chemistry - A European Journal</i> , 2017 , 23, 15884-15888	4.8	13
122	The Nature of Transannular Interactions in E4N4 and E8(2+) (E = S, Se). <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4249-58	6.4	13
121	Structural principles and thermoelectric properties of polytypic group 14 clathrate-II frameworks. <i>ChemPhysChem</i> , 2013 , 14, 1807-17	3.2	13
120	[Be(ND ₃) ₄]Cl ₂ : Synthesis, Characterisation and Space-Group Determination Guided by Solid-State Quantum Chemical Calculations. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 4184-4190	2.3	13
119	Structural and Electronic Characteristics of Diamondoid Analogues of Group 14 Elements. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16324-16330	3.8	13
118	Complexes featuring a linear [N ₂ U ₂ N] core isoelectronic to the uranyl cation. <i>Nature Chemistry</i> , 2020 , 12, 962-967	17.6	13
117	Boranyl-Functionalized [Ge _n] Clusters: Providing the Idea of Intramolecular Ge/B Frustrated Lewis Pairs. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2648-2653	16.4	13
116	MoF ₅ revisited. A comprehensive study of MoF ₅ . <i>Journal of Fluorine Chemistry</i> , 2018 , 211, 171-179	2.1	12
115	Semiconducting clathrates meet gas hydrates: Xe@Sn. <i>Chemistry - A European Journal</i> , 2014 , 20, 6693-8	4.8	12
114	Synthesis, characterization and photophysical properties of gold(I)-copper(I) alkynyl clusters with 1,4-bis(diphenylphosphino)butane, effect of the diphosphine ligand on luminescence characteristics. <i>Journal of Organometallic Chemistry</i> , 2013 , 723, 65-71	2.3	12
113	Halide-Directed Assembly of Multicomponent Systems: Highly Ordered AuI@AgI Molecular Aggregates. <i>Angewandte Chemie</i> , 2010 , 122, 9048-9050	3.6	12
112	[Ge ₂](4-) Dumbbells with Very Short Ge-Ge Distances in the Zintl Phase Li ₃ NaGe ₂ : A Solid-State Equivalent to Molecular O ₂ . <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1075-9	16.4	12

111	On the exfoliation and anisotropic thermal expansion of black phosphorus. <i>Chemical Communications</i> , 2018 , 54, 9793-9796	5.8	11
110	The Interhalogen Cations [Br F] and [Br F]. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14640-14644	16.4	11
109	Numerical study on the fluid dynamical aspects of atomic layer deposition process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 021516	2.9	10
108	Ab initio studies on the lattice thermal conductivity of silicon clathrate frameworks II and VIII. <i>Physical Review B</i> , 2016 , 93,	3.3	10
107	Uranyl Halides from Liquid Ammonia: [UO ₂ (NH ₃) ₅]Cl ₂ ·nNH ₃ and [UO ₂ F ₂ (NH ₃) ₃] ₂ ·nNH ₃ and Their Decomposition Products [UO ₂ Cl ₂ (NH ₃) ₃] and [UO ₂ F ₂ (NH ₃) ₃]. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 638, 2044-2052	1.3	10
106	From Fullerenes and Icosahedral Diamondoids to Polyicosahedral Nanowires: Structural, Electronic, and Mechanical Characteristics. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11122-11129	3.8	10
105	Structural Characteristics of Hydrocarbon Cages: From Fullerenes to Icosahedral Diamondoids. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18118-18126	3.8	10
104	Crystal Structure Prediction of Magnetic Transition-Metal Oxides by Using Evolutionary Algorithm and Hybrid DFT Methods. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24949-24957	3.8	10
103	Alkynyl triphosphine copper complexes: synthesis and photophysical studies. <i>Dalton Transactions</i> , 2015 , 44, 13294-304	4.3	9
102	Speciation of Be in acidic liquid ammonia and formation of tetra- and octanuclear beryllium amido clusters. <i>Chemical Science</i> , 2020 , 11, 5415-5422	9.4	9
101	The [U F] Anion of Sr[U F]. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2914-2918	16.4	9
100	NOUF ₆ Revisited: A Comprehensive Study of a Hexafluoridouranate(V) Salt. <i>Chemistry - A European Journal</i> , 2016 , 22, 12145-53	4.8	9
99	Die Interhalogenkationen [Br ₂ F ₅] ⁺ und [Br ₃ F ₈] ⁺ . <i>Angewandte Chemie</i> , 2018 , 130, 14850-14855	3.6	9
98	Rhenium(I) Complexes with Alkynylphosphane Ligands: Structural, Photophysical, and Theoretical Studies. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 864-875	2.3	9
97	Identification of mixed bromidochloridotellurate anions in disordered crystal structures of (bdmim) ₂ [TeX ₂ Y ₄] (X, Y=Br, Cl; bdmim=1-butyl-2,3-dimethylimidazolium) by combined application of Raman spectroscopy and solid-state DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 117, 728-38	4.4	9
96	Structural characteristics of graphane-type C and BN nanostructures by periodic local MP2 approach. <i>ChemPhysChem</i> , 2012 , 13, 2361-7	3.2	9
95	Determination of Individual Gibbs Energies of Anion Transfer and Excess Gibbs Energies Using an Electrochemical Method Based on Insertion Electrochemistry of Solid Compounds. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4577-4586	2.8	9
94	Preparation of copper/silicon dioxide nanoparticles with chemical vapor synthesis. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3591-3598	2.3	9

93	Structural and electronic characteristics of perhydrogenated carbon nanotubes. <i>Chemical Physics</i> , 2007 , 340, 120-126	2.3	9
92	Structural characteristics of hydrogenated carbon and boron nitride nanotubes: impact of H-H interactions. <i>ChemPhysChem</i> , 2008 , 9, 2390-6	3.2	9
91	Key Role of Defects in Thermoelectric Performance of TiMSn (M = Ni, Pd, and Pt) Half-Heusler Alloys. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14997-15006	3.8	8
90	Charged Si ₉ Clusters in Neat Solids and the Detection of [H ₂ Si ₉] ²⁺ in Solution: A Combined NMR, Raman, Mass Spectrometric, and Quantum Chemical Investigation. <i>Angewandte Chemie</i> , 2018 , 130, 13132-13137	3.6	8
89	Silicon clusters with six and seven unsubstituted vertices a two-step reaction from elemental silicon. <i>Chemical Science</i> , 2019 , 10, 9130-9139	9.4	8
88	Lewis Acidic Behavior of MoOF ₄ towards the Alkali Metal Fluorides in Anhydrous Hydrogen Fluoride Solutions. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 3672-3682	2.3	8
87	A 1D Coordination Polymer of UF with HCN as a Ligand. <i>Chemistry - A European Journal</i> , 2017 , 23, 291-295	4.8	8
86	Mechanical Properties and Low Elastic Anisotropy of Semiconducting Group 14 Clathrate Frameworks. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19925-19930	3.8	8
85	Structural Trends Among Nanotubes of Group 13-15 Binary Hydrides. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10065-10069	3.8	8
84	Ab initio study on the adsorption of hydrated Na ⁺ and Ag ⁺ cations on a Ag(111) surface. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14379-85	3.4	8
83	An Unprecedented Fully H ₂ Substituted Phosphate Hydride Sr ₅ (PO ₄) ₃ H Expanding the Apatite Family. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 5073-5076	2.3	8
82	Syntheses and Crystal Structures of Sodium Hydrogen Fluorides NaF _n HF (n = 2, 3, 4). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1436-1443	1.3	7
81	Synthesis and Characterization of [Br] ₂ [MF] (M=Sb, Ir), as well as Quantum Chemical Study of [Br] ₂ Structure, Chemical Bonding, and Relativistic Effects Compared with [XBr] ₂ (X=Br, I, At, Ts) and [TsZ] ₂ (Z=F, Cl, Br, I, At, Ts). <i>Chemistry - A European Journal</i> , 2019 , 25, 5793-5802	4.8	7
80	[Ge ₂] ₄ Dumbbells with Very Short Ge-Ge Distances in the Zintl Phase Li ₃ NaGe ₂ : A Solid-State Equivalent to Molecular O ₂ . <i>Angewandte Chemie</i> , 2016 , 128, 1087-1091	3.6	7
79	A Facile Molecular Machine: Optically Triggered Counterion Migration by Charge Transfer of Linear Donor-Acceptor Phosphonium Fluorophores. <i>Angewandte Chemie</i> , 2019 , 131, 13590-13599	3.6	7
78	Harvesting Fluorescence from Efficient T _k → S _j (j, k > 1) Reverse Intersystem Crossing for π Emissive Transition-Metal Complexes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20494-20499	3.8	7
77	Halogen Bonding to Amplify Luminescence: A Case Study Using a Platinum Cyclometalated Complex. <i>Angewandte Chemie</i> , 2015 , 127, 14263-14266	3.6	7
76	Ab initio study on adsorption of hydrated Na ⁺ and Cu ⁺ cations on the Cu(111) surface. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23983-92	3.4	7

75	Learning experiences from digital laboratory safety training. <i>Education for Chemical Engineers</i> , 2021 , 34, 87-93	2.4	7
74	The reactions of $TiCl_3$, and of UF_4 with $TiCl_3$ in liquid ammonia: unusual coordination spheres in $[Ti(NH_3)_8]Cl_3 \cdot 6NH_3$ and $[UF(NH_3)_8]Cl_3 \cdot 5NH_3$. <i>Chemical Communications</i> , 2015 , 51, 11826-9	5.8	6
73	Synthesis and Characterization of the Tetrafluoridochlorates(III) $A[ClF_4]$ ($A = K, Rb, Cs$). <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 1319-1324	2.3	6
72	Lattice dynamical properties of antiferromagnetic MnO , CoO , and NiO , and the lattice thermal conductivity of NiO . <i>Physical Review B</i> , 2019 , 100,	3.3	6
71	Structural and electronic trends among group 15 polyhedral fullerenes. <i>Theoretical Chemistry Accounts</i> , 2011 , 129, 413-422	1.9	6
70	$PbF[Br_2F_7]$, a Fluoridobromate(III) of a p-Block Metal. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 64-70	2.3	6
69	Supramolecular Construction of Cyanide-Bridged Re Diimine Multichromophores. <i>Inorganic Chemistry</i> , 2019 , 58, 1988-2000	5.1	6
68	F-bridged Anions of Bromine and Gold: Predictions of Unexpected Behavior. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019 , 645, 284-291	1.3	6
67	Dispersion interactions in silicon allotropes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7699-7707	3.6	5
66	Slicing Diamond for More sp Group 14 Allotropes Ranging from Direct Bandgaps to Poor Metals. <i>ChemPhysChem</i> , 2017 , 18, 1992-2006	3.2	5
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