

J Mikko Rautiainen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-Level Ab Initio Predictions of Thermochemical Properties of Organosilicon Species: Critical Evaluation of Experimental Data and a Reliable Benchmark Database for Extending Group Additivity Approaches. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1729-1742.	1.1	2
2	The Se $\ddot{\sigma}$ Hal halogen bonding: Co-crystals of selenoureas with fluorinated organohalides. <i>Journal of Solid State Chemistry</i> , 2021, 295, 121930.	1.4	4
3	Halogen Bonding between Thiocarbonyl Compounds and 1,2- and 1,4-Diiodotetrafluorobenzenes. <i>Crystal Growth and Design</i> , 2021, 21, 3409-3419.	1.4	15
4	Studies of Nature of Uncommon Bifurcated $\text{I}-\text{A}\cdots\text{M}$ Metal-Involving Noncovalent Interaction in Palladium(II) and Platinum(II) Isocyanide Cocrystals. <i>Inorganic Chemistry</i> , 2021, 60, 13200-13211.	1.9	16
5	Lowâ€“Valent Germanylidene Anions: Efficient Singleâ€“Site Nucleophiles for Activation of Small Molecules. <i>Chemistry - A European Journal</i> , 2021, 27, 14405-14409.	1.7	12
6	Chalcogenâ€“Bonding Interactions in Telluroether Heterocycles $[\text{Te}(\text{CH}_2)_m]_n$ ($n=1\cdots 4$; $m=3\cdots 7$). <i>Chemistry - A European Journal</i> , 2020, 26, 13747-13747.	1.7	0
7	The $\text{C}=\text{O}+\text{N}$ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides. <i>Crystal Growth and Design</i> , 2020, 20, 5330-5337.	1.4	17
8	Chalcogenâ€“Bonding Interactions in Telluroether Heterocycles $[\text{Te}(\text{CH}_2)_m]_n$ ($n=1\cdots 4$; $m=3\cdots 7$). <i>Chemistry - A European Journal</i> , 2020, 26, 13806-13818.	1.7	9
9	Hostâ€“Guest Interactions of Sodiumsulfonatomethyleneresorcinarene and Quaternary Ammonium Halides: An Experimentalâ€“Computational Analysis of the Guest Inclusion Properties. <i>Crystal Growth and Design</i> , 2020, 20, 2367-2376.	1.4	15
10	Boronâ€“nitrogen substituted dihydroindeno[1,2- <i>b</i>]fluorene derivatives as acceptors in organic solar cells. <i>Chemical Communications</i> , 2019, 55, 11095-11098.	2.2	26
11	Strong Nâ”Xâ...â...Oâ”N Halogen Bonds: A Comprehensive Study on Nâ€“Halosaccharin Pyridine <i>N</i> -Oxide Complexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18610-18618.	7.2	54
12	Strong Nâ”Xâ...â...Oâ”N Halogen Bonds: A Comprehensive Study on Nâ€“Halosaccharin Pyridine N â€“Oxide Complexes. <i>Angewandte Chemie</i> , 2019, 131, 18783-18791.	1.6	6
13	Titanocene Selenide Sulfides Revisited: Formation, Stabilities, and NMR Spectroscopic Properties. <i>Molecules</i> , 2019, 24, 319.	1.7	4
14	Benson group additivity values of phosphines and phosphine oxides: Fast and accurate computational thermochemistry of organophosphorus species. <i>Journal of Computational Chemistry</i> , 2019, 40, 572-580.	1.5	4
15	Divergent reactivity of nucleophilic 1-bora-7a-azaindenide anions. <i>Dalton Transactions</i> , 2018, 47, 734-741.	1.6	4
16	Competitive Te-Te and C-Te bond cleavage in the oxidative addition of diaryl and dialkyl ditellurides to Pt(0) centers. <i>Journal of Organometallic Chemistry</i> , 2017, 836-837, 17-25.	0.8	7
17	Zirconocene-Based Methods for the Preparation of BN-Indenes: Application to the Synthesis of 1,5-Dibora-4a,8a-diaza-1,2,3,5,6,7-hexaaryl-4,8-dimethyl- <i>s</i> -indacenes. <i>Organometallics</i> , 2017, 36, 2541-2551.	1.1	24
18	Insights into the decomposition pathway of a lutetium alkylamido complex via intramolecular Câ€“H bond activation. <i>Journal of Organometallic Chemistry</i> , 2017, 845, 135-143.	0.8	10

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19	A Selenium-Nitrogen Chain with Selenium in Different Oxidation States. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 495-500.	0.6	2
20	Acylchalcogenourea Complexes of Silver(I). European Journal of Inorganic Chemistry, 2017, 2017, 789-797.	1.0	10
21	Synthesis, Characterization, and Properties of Weakly Coordinating Anions Based on <i>tris</i> - <i>i</i> -Perfluoro- <i>tert</i> - <i>i</i> -Butoxyborane. Inorganic Chemistry, 2017, 56, 974-983.	1.9	10
22	Tridentate C=O ²⁻ + N ⁺ halogen bonds. CrystEngComm, 2017, 19, 4960-4963.	1.3	12
23	Chalcogen-chalcogen secondary bonding interactions in trichalcogenoferrocenophanes. CrystEngComm, 2016, 18, 4538-4545.	1.3	22
24	Absorption of SO ₂ (g) by TDAE[O ₂ SSO ₂] (s) to Give TDAE[O ₂ SS(O) ₂ SO ₂] (s): Related Reactions of [NR ₄] ₂ [O ₂ SSO ₂] (s) (R = CH ₃ , CH ₂ Br, CHBr ₂ , Br). J. ETQq 0 0 rgBT ^{1.9} Overlock 10 Tf 50		
25	Synthesis, characterization, and ligand behaviour of a new ditelluroether (C ₁₀ H ₇ Te(CH ₂) ₄ Te(C ₁₀ H ₇)) and the concurrently formed ionic [(C ₁₀ H ₇ Te(CH ₂) ₄ Br]Br. Dalton Transactions, 2016, 45, 17206-17215.	1.6	4
26	A Ten-membered Dimetallacycle with an [Ag ₂] ²⁺ Dication Bridged by Two <i>i</i> P, N ₃ Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 390-394.	0.6	2
27	Experimental and computational investigations of platinum complexes of selenium diimide and some novel selenium-nitrogen ligands. Canadian Journal of Chemistry, 2016, 94, 342-351.	0.6	1
28	The role of imidoselenium(ii) chlorides in the formation of cyclic selenium imides via cyclocondensation. Dalton Transactions, 2016, 45, 6210-6221.	1.6	11
29	Mercury- and Cadmium-Assisted [2 + 2] Cyclodimerization of tert-Butylselenium Diimide. Inorganic Chemistry, 2015, 54, 9499-9508.	1.9	6
30	Experimental and Computational ⁷⁷ Se NMR Investigations of the Cyclic Eight-Membered Selenium Imides 1,3,5,7-Se ₄ (NR) ₄ (R = Me, tBu) and 1,5-Se ₆ (NMe) ₂ . Inorganic Chemistry, 2015, 54, 4990-4997.	1.9	13
31	A self-assembled Cu(ii)4[2 Å– 2] grid with organic radicals. Dalton Transactions, 2013, 42, 2371-2381.	1.6	21
32	Synthesis of (TDAE)(O ₂ SSO ₂) (s) and Discovery of (TDAE)(O ₂ SSSSO ₂) (s) Containing the First Polythionite, [O ₂ SSSSO ₂] ₂ . Inorganic Chemistry, 2013, 52, 13651-13662.	1.9	9
33	Reactions of a Cyclodimethylsiloxane (Me ₂ SiO) ₆ with Silver Salts of Weakly Coordinating Anions; Crystal Structures of [Ag(Me ₂ SiO) ₆][Al] ([Al] = Tj ETQq 1 0.784314 rgBT /Overlock 1.9 34 [Ag(10 Crown-6)] ₂ [ClF ₆] ₂ [Al] ₂). Inorganic Chemistry, 2013, 52, 3113-3126.	1.9	34
34	Synthesis of [N(CH ₃) ₄] ₂ O ₃ SOSO ₂ (s) and [N(CH ₃) ₄] ₂ [(O ₂ SO) ₂ SO ₂] _x SO ₂ (s) Containing (SO ₄)(SO ₂) _x (x = 1, 2, Members of a New Class of Sulfur Oxydianions. Inorganic Chemistry, 2013, 52, 7193-7202.	1.9	5
35	On The Lower Lewis Basicity of Siloxanes Compared to Ethers. European Journal of Inorganic Chemistry, 2012, 2012, 6002-6010.	1.0	41
36	A prototype hybrid 7-quinone-fused 1,3,2-dithiazolyl radical. Dalton Transactions, 2011, 40, 868-879.	1.6	17

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37	Evidence for [18-Crown-6 Na] ₂ [S ₂ 2</sub>O ₄ </sub>] in Methanol and Dissociation to Na ₂ S ₂ 2</sub>O ₄ </sub> and 18-Crown-6 in the Solid State; Accounting for the Scarcity of Simple Oxy Dianion Salts of Alkali Metal Crown Ethers in the Solid Preparation and Characterization of (CNSSS) ₂ (A) ₂ (A = Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 722 Td (AsF ₆) ₂ ·(CH ₂ Cl ₂) ₂ ·H ₂ O)·2·(CH ₂ Cl ₂) ₂ ·H ₂ O. <i>Inorganic Chemistry</i> , 2011, 50, 1111-1117.	1.9	6
38	5,5â€²-Bis(1,2,3,4-trithiazolium) Dication: The Second Example of a Simple Nonsterically Hindered Main-Group Diradical That Retains Its Paramagnetism in the Solid State. <i>Inorganic Chemistry</i> , 2010, 49, 7861-7879.	1.9	21
39	Preparation, structure and analysis of the bonding in the molecular entity (OSO) ₂ Li{[AlF(ORF) ₃]Li[Al(ORF) ₄]}. (RF = C(CF ₃) ₃). <i>Dalton Transactions</i> , 2010, 39, 2587. Silver(I) Complexes of the Weakly Coordinating Solvents SO ₂ and CH ₂ Cl ₂ : Crystal Structures, Bonding, and Energetics of [Ag(OSO)] ₂ [Al{OC(CF ₃) ₃ } ₃] ₂ and [Ag(OSO) ₂][SbF ₆], and [Ag(CH ₂ Cl ₂) ₂][SbF ₆] ₂ . <i>VPT Low-temperature of the Reversible Dissociation of SO₂ to Solutions Containing 1,4-Se<sub>n</sub>6</sub> in Liquid SO<sub>2</sub> to Solutions Containing 1,4-Se<sub>n</sub>6</sub> in Solid SO<sub>2</sub>. Chemistry - A European journal, 2009, 13, 6504-6511.</i>	1.6	13
40	[Ag(OSO)] ₂ [Al{OC(CF ₃) ₃ } ₃] ₂ and [Ag(OSO) ₂][SbF ₆], and [Ag(CH ₂ Cl ₂) ₂][SbF ₆] ₂ . <i>VPT Low-temperature of the Reversible Dissociation of SO₂ to Solutions Containing 1,4-Se<sub>n</sub>6</sub> in Liquid SO<sub>2</sub> to Solutions Containing 1,4-Se<sub>n</sub>6</sub> in Solid SO<sub>2</sub>. Chemistry - A European journal, 2009, 13, 6504-6511.</i>	1.7	55
41	Equilibrium with Se_n²⁺(_n = 4, 8, 10) and Seven Binary Selenium Iodine Cations: Preliminary Evidence for 1,1,4,4-Se₄I ₄ and 1,1,4,4-Se₈I ₈ . <i>Inorganic Chemistry</i> , 2007, 46, 681-699.	1.9	30
42	Accounting for the Differences in the Structures and Relative Energies of the Highly Homoatomic np ⁶ np ⁶ (n = 3)-Bonded S ₂ I ₄ ²⁺ , the Se ⁻¹ I ⁻ -Bonded Se ₂ I ₄ ²⁺ , and Their Higher-Energy Isomers by AIM, MO, NBO, and VB Methodologies. <i>Inorganic Chemistry</i> , 2007, 46, 681-699.	1.9	19
43	Characterization of the Diradical ²Se_n² and [NSNSCâ€˜CNSSN][MF ₆] ₂ (_n = 1, 2). The First Observation of an Excited Triplet State in Dimers of 7 ¹ E â€˜CNSSN² Radicals. <i>Inorganic Chemistry</i> , 2007, 46, 7436-7457.	1.9	26
44	The Autoionization of [TiF ₄] by Cation Complexation with [15]Crown-5 To Give [TiF ₂ ([15]crown-5)][Ti ₄ F ₁₈] Containing the Tetrahedral [Ti ₄ F ₁₈] ₂ ²⁻ Ion. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7958-7961.	7.2	39
45	The Highest Bond Order Between Heavier Main-Group Elements in an Isolated Compound? Energetics and Vibrational Spectroscopy of S ₂ I ₄ (MF ₆) ₂ (M: As, Sb).. <i>ChemInform</i> , 2005, 36, no.	0.1	0
46	A Computational and Experimental Study of the Structure and Raman and ⁷⁷ Se NMR Spectra of SeX ₃ ⁺ and SeX ₂ (X: Cl, Br, I): FT-Raman Spectrum of (Sel ₃) ₂ [AsF ₆]. <i>ChemInform</i> , 2005, 36, no.	0.1	0
47	The Highest Bond Order Between Heavier Main-Group Elements in an Isolated Compound? Energetics and Vibrational Spectroscopy of S ₂ I ₄ (MF ₆) ₂ (M = As, Sb). <i>Inorganic Chemistry</i> , 2005, 44, 1660-1671.	1.9	37
48	A Computational and Experimental Study of the Structures and Raman and ⁷⁷ Se NMR Spectra of SeX ₃ ⁺ and SeX ₂ (X = Cl, Br, I): FT-Raman Spectrum of (Sel ₃) ₂ [AsF ₆]. <i>Inorganic Chemistry</i> , 2005, 44, 1904-1913.	1.9	23