

# J Mikko Rautiainen

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Strongly Coordinating Solvents SO <sub>2</sub> and CH <sub>2</sub> Cl <sub>2</sub> : Crystal Structures, Bonding, and Energetics of [Ag(OSO)] [Al{OC(CF <sub>3</sub> ) <sub>3</sub> } <sub>4</sub> ], [Ag(OSO) <sub>2</sub> ][SbF <sub>6</sub> ], and [Ag(CH <sub>2</sub> Cl) <sub>2</sub> ][SbF <sub>6</sub> ]. Chemistry - A European Journal, 2009, 15, 6504-6517.	1.7	55
2	Strong Nâˆ•â€¦â€¦Oâˆ•N Halogen Bonds: A Comprehensive Study on Nâ€•Halosaccharin Pyridine <i>N</i>-Oxide Complexes. Angewandte Chemie - International Edition, 2019, 58, 18610-18618.	7.2	54
3	On The Lower Lewis Basicity of Siloxanes Compared to Ethers. European Journal of Inorganic Chemistry, 2012, 2012, 6002-6010.	1.0	41
4	The Autoionization of [TiF <sub>4</sub> ] by Cation Complexation with [15]Crown-5 To Give [TiF <sub>2</sub> ([15]crown-5)][TiF <sub>18</sub> ] Containing the Tetrahedral [TiF <sub>18</sub> ] <sup>2-</sup> Ion. Angewandte Chemie - International Edition, 2005, 44, 7958-7961.	7.2	39
5	The Highest Bond Order Between Heavier Main-Group Elements in an Isolated Compound? Energetics and Vibrational Spectroscopy of S <sub>2</sub> I <sub>4</sub> (MF <sub>6</sub> ) <sub>2</sub> (M = As, Sb). Inorganic Chemistry, 2005, 44, 1660-1671.	1.9	37
6	Reactions of a Cyclodimethylsiloxane (Me <sub>2</sub> SiO) <sub>6</sub> with Silver Salts of Weakly Coordinating Anions; Crystal Structures of [Ag(Me <sub>2</sub> SiO) <sub>6</sub> ][Al] ([Al] = Tl, Et, Q, O, O, rg, BT, /Overlock, 10 Tf, 50, 282, Td, <sup>77</sup>Se NMR Spectroscopic, DFT MO, and VBT Investigations of the Reversible Dissociation of [Ag(1,8-C <sub>6</sub> H <sub>4</sub> (SO <sub>2</sub> ) <sub>2</sub> )] <sub>2</sub> [SbF <sub>6</sub> ], [As(1,8-C <sub>6</sub> H <sub>4</sub> (SO <sub>2</sub> ) <sub>2</sub> )] <sub>2</sub> [SbF <sub>6</sub> ], and [S(1,8-C <sub>6</sub> H <sub>4</sub> (SO <sub>2</sub> ) <sub>2</sub> )] <sub>2</sub> [SbF <sub>6</sub> ]. Inorganic Chemistry, 2003, 42, 3113-3126.	1.9	34
7	SO <sub>2</sub> to Solutions Containing 1,4-Se <sub>6</sub> I <sub>2</sub> <sup>2+</sup> in Equilibrium with Se <sub>2</sub> <sup>2+</sup> (<i>n</i> = 4, 8, 10) and Seven Binary Selenium Iodine Cations: Preliminary Evidence for	1.9	30
8	Characterization of the Diradical <sup>â€•â€•</sup>[NSNSCâˆ•CNSN] and [NSNSCâˆ•CNSN][MF <sub>6</sub> ] <sup>&lt;i&gt;n&lt;/i&gt;</sup> (<i>n</i> = 1, 2). The First Observation of an Excited Triplet State in Dimers of 7Iâˆ•CNSN Radicals. Inorganic Chemistry, 2007, 46, 7436-7457.	1.9	26
9	Boronâ€•nitrogen substituted dihydroindeno[1,2- <i>b</i> ]fluorene derivatives as acceptors in organic solar cells. Chemical Communications, 2019, 55, 11095-11098.	2.2	26
10	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>i&gt;s&lt;/i&gt;-indacenes. Organometallics, 2017, 36, 2541-2551.</i>	1.1	24
11	A Computational and Experimental Study of the Structures and Raman and <sup>77</sup> Se NMR Spectra of SeX <sub>3</sub> <sup>+</sup> and SeX <sub>2</sub> (X = Cl, Br, I): A FT-Raman Spectrum of (SeI <sub>3</sub> )[AsF <sub>6</sub> ]. Inorganic Chemistry, 2005, 44, 1904-1913.	1.9	23
12	Chalcogenâ€•chalcogen secondary bonding interactions in trichalcogenferrocenophanes. CrystEngComm, 2016, 18, 4538-4545.	1.3	22
13	Preparation and Characterization of (CNSSS) <sub>2</sub> (A) <sub>2</sub> (A = Tl, Et, Q, 1, 1, 0, 784314, rg, BT, /Overlock, 10 Tf, 50, 282, Td)	1.9	21
14	5,5â€•-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. Inorganic Chemistry, 2010, 49, 7861-7879.	1.9	21
15	A self-assembled Cu(ii) <sub>4</sub> [2 Å <sup>-2</sup> ] grid with organic radicals. Dalton Transactions, 2013, 42, 2371-2381.	1.6	21
16	Accounting for the Differences in the Structures and Relative Energies of the Highly Homoatomic nIâˆ•nIâˆ• (n = 3)-Bonded S <sub>2</sub> I <sub>4</sub> <sup>2+</sup> , the Seâˆ•Iâˆ•-Bonded Se <sub>2</sub> I <sub>4</sub> <sup>2+</sup> , and Their Higher-Energy Isomers by AIM, MO, NBO, and VB Methodologies. Inorganic Chemistry, 2007, 46, 681-699.	1.9	19
17	A prototype hybrid 7Iâˆ• quinone-fused 1,3,2-dithiazolyl radical. Dalton Transactions, 2011, 40, 868-879.	1.6	17
18	The Câ€•Iâˆ•âˆ•Oâ€•N <sup>+</sup> Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides. Crystal Growth and Design, 2020, 20, 5330-5337.	1.4	17
19	Studies of Nature of Uncommon Bifurcated Iâˆ•âˆ•(u)âˆ•(u) Metal-Involving Noncovalent Interaction in Palladium(II) and Platinum(II) Isocyanide Cocrystals. Inorganic Chemistry, 2021, 60, 13200-13211.	1.9	16

#	ARTICLE	IF	CITATIONS
19	Host-Guest Interactions of Sodiumsulfonatomethyleneresorcinarene and Quaternary Ammonium Halides: An Experimental-Computational Analysis of the Guest Inclusion Properties. <i>Crystal Growth and Design</i> , 2020, 20, 2367-2376.	1.4	15
20	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
21	Preparation, structure and analysis of the bonding in the molecular entity (OSO) <sub>2</sub> Li{[AlF(ORF) <sub>3</sub> ]Li[Al(ORF) <sub>4</sub> ]}. (RF = C(CF <sub>3</sub> ) <sub>3</sub> ). <i>Dalton Transactions</i> , 2010, 39, 2587.	1.6	13
22	Experimental and Computational <sup>77</sup> Se NMR Investigations of the Cyclic Eight-Membered Selenium Imides 1,3,5,7-Se <sub>4</sub> (NR) <sub>4</sub> (R = Me, tBu) and 1,5-Se <sub>6</sub> (NMe) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2015, 54, 4990-4997.	1.9	13
23	Tridentate C=O <sup>+</sup> N <sup>+</sup> halogen bonds. <i>CrystEngComm</i> , 2017, 19, 4960-4963.	1.3	12
24	Low-Valent Germanylidene Anions: Efficient Single-Site Nucleophiles for Activation of Small Molecules. <i>Chemistry - A European Journal</i> , 2021, 27, 14405-14409.	1.7	12
25	The role of imidoselenium(II) chlorides in the formation of cyclic selenium imides via cyclocondensation. <i>Dalton Transactions</i> , 2016, 45, 6210-6221.	1.6	11
26	Insights into the decomposition pathway of a lutetium alkylamido complex via intramolecular C-H bond activation. <i>Journal of Organometallic Chemistry</i> , 2017, 845, 135-143.	0.8	10
27	Acylchalcogenourea Complexes of Silver(I). <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 789-797.	1.0	10
28	Synthesis, Characterization, and Properties of Weakly Coordinating Anions Based on tris-Perfluoro-tert-Butoxyborane. <i>Inorganic Chemistry</i> , 2017, 56, 974-983.	1.9	10
29	Synthesis of (TDAE)(O <sub>2</sub> SSO <sub>2</sub> )(s) and Discovery of (TDAE)(O <sub>2</sub> SSSSO <sub>2</sub> )(s) Containing the First Polythionite, [O <sub>2</sub> SSSSO <sub>2</sub> ] <sub>2</sub> . <i>Inorganic Chemistry</i> , 2013, 52, 13651-13662.	1.9	9
30	Chalcogen-Bonding Interactions in Telluroether Heterocycles [Te(CH <sub>2</sub> ) <sub>m</sub> ] <sub>n</sub> (n=1-4; m=3-7). <i>Chemistry - A European Journal</i> , 2020, 26, 13806-13818.	1.7	9
31	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
32	Evidence for [18-Crown-6 Na] <sub>2</sub> [S <sub>2</sub> O <sub>4</sub> ] in Methanol and Dissociation to Na <sub>2</sub> S <sub>2</sub> O <sub>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 State. <i>Inorganic Chemistry</i> , 2011, 50, 1491-1497.	1.9	6
33	Mercury- and Cadmium-Assisted [2 + 2] Cyclodimerization of tert-Butylselenium Diimide. <i>Inorganic Chemistry</i> , 2015, 54, 9499-9508.	1.9	6
34	Strong N...N Halogen Bonds: A Comprehensive Study on N-Halosaccharin Pyridine N-Oxide Complexes. <i>Angewandte Chemie</i> , 2019, 131, 18783-18791.	1.6	6
35	Synthesis of [N(CH <sub>3</sub> ) <sub>4</sub> ] <sub>2</sub> O <sub>2</sub> SSO <sub>2</sub> (s) and [N(CH <sub>3</sub> ) <sub>4</sub> ] <sub>2</sub> [(O <sub>2</sub> SO) <sub>2</sub> SO <sub>2</sub> ] <sub>2</sub> SO <sub>2</sub> (s) Containing (SO <sub>4</sub> )(SO <sub>2</sub> ) <sub>2</sub> . x = 1, 2, Members of a New Class of Sulfur Oxydianions. <i>Inorganic Chemistry</i> , 2013, 52, 7193-7202.	1.9	5
36	Synthesis, characterization, and ligand behaviour of a new ditelluroether (C <sub>10</sub> H <sub>7</sub> ) <sub>2</sub> Te(CH <sub>2</sub> ) <sub>4</sub> Te(C <sub>10</sub> H <sub>7</sub> ) <sub>2</sub> and the concurrently formed ionic [(C <sub>10</sub> H <sub>7</sub> ) <sub>2</sub> Te(CH <sub>2</sub> ) <sub>4</sub> ] <sub>2</sub> Br. <i>Dalton Transactions</i> , 2016, 45, 17206-17215.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Divergent reactivity of nucleophilic 1-bora-7a-azaindenide anions. Dalton Transactions, 2018, 47, 734-741.	1.6	4
38	Titanocene Selenide Sulfides Revisited: Formation, Stabilities, and NMR Spectroscopic Properties. Molecules, 2019, 24, 319.	1.7	4
39	Benson group additivity values of phosphines and phosphine oxides: Fast and accurate computational thermochemistry of organophosphorus species. Journal of Computational Chemistry, 2019, 40, 572-580.	1.5	4
40	The Se $\pi$ -Hal halogen bonding: Co-crystals of selenoureas with fluorinated organohalides. Journal of Solid State Chemistry, 2021, 295, 121930.	1.4	4
41	Absorption of $\text{SO}_2(\text{g})$ by $\text{TDAE}[\text{O}_2\text{SSO}_2](\text{s})$ to Give $\text{TDAE}[\text{O}_2\text{SS}(\text{O})_2\text{SO}_2](\text{s})$ : Related Reactions of $[\text{NR}_4]_2[\text{O}_2\text{SSO}_2](\text{s})$ ( $\text{R} = \text{CH}_3$ ), $\text{Tj ETQq1 1 0.784314 rgBT}^3$ Overload	1.9	1
42	A Ten-membered Dimetallacycle with an $[\text{Ag}_2]^{2+}$ Dication Bridged by Two $\text{P, N}$ Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 390-394.	0.6	2
43	A Selenium-Nitrogen Chain with Selenium in Different Oxidation States. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 495-500.	0.6	2
44	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. Journal of Physical Chemistry A, 2022, 126, 1729-1742.	1.1	2
45	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
46	The Highest Bond Order Between Heavier Main-Group Elements in an Isolated Compound? Energetics and Vibrational Spectroscopy of $\text{S}_2\text{I}_4(\text{MF}_6)_2$ ( $\text{M}: \text{As}, \text{Sb}$ ). ChemInform, 2005, 36, no.	0.1	0
47	A Computational and Experimental Study of the Structure and Raman and $^{77}\text{Se}$ NMR Spectra of $\text{SeX}_3^+$ and $\text{SeX}_2$ ( $\text{X}: \text{Cl}, \text{Br}, \text{I}$ ): FT-Raman Spectrum of $(\text{SeI}_3)[\text{AsF}_6]$ . ChemInform, 2005, 36, no.	0.1	0
48	Chalcogen-Bonding Interactions in Telluroether Heterocycles $[\text{Te}(\text{CH}_2)_m]_n$ ( $n = 4$ ; $m = 3-7$ ). Chemistry - A European Journal, 2020, 26, 13747-13747.	1.7	0