

# J Mikko Rautiainen

## List of Publications by Year in descending order

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48  
papers

733  
citations

516561

16  
h-index

580701

25  
g-index

53  
all docs

53  
docs citations

53  
times ranked

778  
citing authors

#	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 $\cdots$ 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 $\text{I}\cdots\text{A}\cdots\text{A}\cdots\text{M}$ Metal-Involving Noncovalent Interaction in Palladium(II) and Platinum(II) Isocyanide Cocrystals. <i>Inorganic Chemistry</i> , 2021, 60, 13200-13211.	1.9	16
5	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
6	Chalcogen-Bonding Interactions in Telluroether Heterocycles $[\text{Te}(\text{CH}_2)_m]_n$ ( $n = 1-4$ ; $m = 3-7$ ). <i>Chemistry - A European Journal</i> , 2020, 26, 13747-13747.	1.7	0
7	The $\text{I}\cdots\text{A}\cdots\text{A}\cdots\text{N}\cdots\text{N}\cdots\text{O}$ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides. <i>Crystal Growth and Design</i> , 2020, 20, 5330-5337.	1.4	17
8	Chalcogen-Bonding Interactions in Telluroether Heterocycles $[\text{Te}(\text{CH}_2)_m]_n$ ( $n = 1-4$ ; $m = 3-7$ ). <i>Chemistry - A European Journal</i> , 2020, 26, 13806-13818.	1.7	9
9	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
10	Boron-nitrogen substituted dihydroindeno[1,2-b]fluorene derivatives as acceptors in organic solar cells. <i>Chemical Communications</i> , 2019, 55, 11095-11098.	2.2	26
11	Strong $\text{N}\cdots\text{X}\cdots\text{N}$ Halogen Bonds: A Comprehensive Study on $\text{N}$ -Halosaccharin Pyridine $\text{N}$ -Oxide Complexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18610-18618.	7.2	54
12	Strong $\text{N}\cdots\text{X}\cdots\text{N}$ Halogen Bonds: A Comprehensive Study on $\text{N}$ -Halosaccharin Pyridine $\text{N}$ -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-azaindene 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-indacenes. <i>Organometallics</i> , 2017, 36, 2541-2551.	1.1	24
18	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



#	ARTICLE	IF	CITATIONS
37	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> , 2010, 49, 7861-7879.	1.9	6
38	5,5- <sup>2</sup> -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) <sub>2</sub> Li{[Al(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
40	Silver(I) Complexes of the Weakly Coordinating Solvents SO <sub>2</sub> and CH <sub>2</sub> Cl <sub>2</sub> : Crystal Structures, Bonding, and Energetics of [Ag(OSO)] <sub>2</sub> [Al{OC(CF <sub>3</sub> ) <sub>3</sub> } <sub>3</sub> ] <sub>2</sub> and [Ag(OSO)] <sub>2</sub> [SbF <sub>6</sub> ], and [Ag(CH <sub>2</sub> Cl) <sub>2</sub> ] <sub>2</sub> [SbF <sub>6</sub> ]. <i>Chemistry - A European Journal</i> , 2009, 15, 6504-6517.	1.7	55
41	FT-IR Investigations of the Reversible Dissociation of Solid (Se <sub>6</sub> Cl) <sub>2</sub> [AsF <sub>6</sub> ] <sub>2</sub> ·2SO <sub>2</sub> in Liquid 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>n</sub> <sup>2+</sup> (n = 4, 8, 10) and Seven Binary Selenium Iodine Cations: Preliminary Evidence for 1,1,4,4-Se <sub>4</sub> Br <sub>4</sub> <sup>2+</sup> and <i>cis</i> -Se <sub>7</sub> Br <sup>+</sup> .	1.9	30
42	Accounting for the Differences in the Structures and Relative Energies of the Highly Homoatomic nπ <sup>+</sup> (n = 3)-Bonded S <sub>2</sub> I <sub>2</sub> <sup>+</sup> , the Se <sup>+</sup> I <sup>-</sup> -Bonded Se <sub>2</sub> I <sub>2</sub> <sup>+</sup> , 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 <sup>•</sup> NSNSC <sup>•</sup> CNSSN <sup>•</sup> and [NSNSC <sup>•</sup> CNSSN][MF <sub>6</sub> ] <sub>n</sub> (n = 1, 2). The First Observation of an Excited Triplet State in Dimers of <sup>•</sup> CNSSN <sup>•</sup> Radicals. <i>Inorganic Chemistry</i> , 2007, 46, 7436-7457.	1.9	26
44	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>4</sub> ] <sup>+</sup> Containing the Tetrahedral [TiF <sub>4</sub> ] <sup>2+</sup> 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 <sub>2</sub> I <sub>4</sub> (MF <sub>6</sub> ) <sub>2</sub> (M: As, Sb).. <i>ChemInform</i> , 2005, 36, no.	0.1	0
46	A Computational and Experimental Study of the Structure 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): FT-Raman Spectrum of (SeI <sub>3</sub> )[AsF <sub>6</sub> ]. <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 <sub>2</sub> I <sub>4</sub> (MF <sub>6</sub> ) <sub>2</sub> (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 <sup>77</sup> Se NMR Spectra of SeX <sub>3</sub> <sup>+</sup> and SeX <sub>2</sub> (X = Cl, Br, I): FT-Raman Spectrum of (SeI <sub>3</sub> )[AsF <sub>6</sub> ]. <i>Inorganic Chemistry</i> , 2005, 44, 1904-1913.	1.9	23