

Heikki M Tuononen

List of Publications by Year in descending order

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65
papers

1,981
citations

257357

24
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265120

42
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70
all docs

70
docs citations

70
times ranked

2173
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of a borane-silane complex involved in frustrated Lewis-pair-mediated hydrosilylations. <i>Nature Chemistry</i> , 2014, 6, 983-988.	6.6	337
2	Electronic Structures of Main-Group Carbene Analogues. <i>Inorganic Chemistry</i> , 2007, 46, 10693-10706.	1.9	123
3	Ammonia Activation by a Nickel NCN-Pincer Complex featuring a Non-Innocent Heterocyclic Carbene: Ammine and Amido Complexes in Equilibrium. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6274-6277.	7.2	64
4	New Insights into the Chemistry of Imidodiphosphinates from Investigations of Tellurium-Centered Systems. <i>Accounts of Chemical Research</i> , 2010, 43, 1053-1062.	7.6	61
5	A Germanium Isocyanide Complex Featuring (n-1) Back-Bonding and Its Conversion to a Hydride/Cyanide Product via C-H Bond Activation under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 4045-4048.	6.6	59
6	Hydrogen activation with perfluorinated organoboranes: 1,2,3-tris(pentafluorophenyl)-4,5,6,7-tetrafluoro-1-boraindene. <i>Chemical Communications</i> , 2014, 50, 1295-1298.	2.2	59
7	The influence of electron delocalization upon the stability and structure of potential N-heterocyclic carbene precursors with 1,3-diaryl-imidazolidine-4,5-dione skeletons. <i>New Journal of Chemistry</i> , 2010, 34, 1295.	1.4	57
8	Electronic Structures and Spectroscopic Properties of 6- π -Electron Ring Molecules and Ions E ₂ N ₂ and E ₄ 2 ⁺ (E = S, Se, Te). <i>Journal of Physical Chemistry A</i> , 2004, 108, 5670-5677.	1.1	55
9	1-Phenyl-3-(pyrid-2-yl)benzo[1,2,4]triazinyl: The First Blatter Radical for Coordination Chemistry. <i>Inorganic Chemistry</i> , 2014, 53, 33-35.	1.9	53
10	The Monomeric Alane-diyl AlAr ⁺ Pr ₈ ⁻ (Ar ⁺ Pr ₈ ⁻ =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 392	6.6	52
11	An Organoaluminum(I) Compound with a One-Coordinate Aluminum Atom. <i>Journal of the American Chemical Society</i> , 2020, 142, 20554-20559.	1.1	51
12	A Cation-Captured Palladium(0) Anion: Synthesis, Structure, and Bonding of [PdBr(PPh ₃) ₂] ⁻ Ligated by an N-Heterocyclic Phosphenium Cation. <i>Organometallics</i> , 2009, 28, 5261-5265.	7.2	49
13	Tellurium(II)-Centered Dications from the Pseudohalide Te(OTf) ₂ . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4409-4413.	6.6	45
14	Counterintuitive Mechanisms of the Addition of Hydrogen and Simple Olefins to Heavy Group 13 Alkene Analogues. <i>Journal of the American Chemical Society</i> , 2013, 135, 1952-1960.	1.1	38
15	Reactions of Alkenes and Alkynes with an Acyclic Silylene and Heavier Tetrylenes under Ambient Conditions. <i>Organometallics</i> , 2014, 33, 6253-6258.	1.7	38
16	Coordination Complexes of a Neutral 1,2,4-Benzotriazinyl Radical Ligand: Synthesis, Molecular and Electronic Structures, and Magnetic Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 15843-15853.	7.2	38
17	Nickel as a Lewis Base in a T-Shaped Nickel(0) Germylene Complex Incorporating a Flexible Bis(NHC) Ligand. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 154-158.	7.2	37
18	Trapping Rare and Elusive Phosphinidene Chalcogenides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6236-6240.	7.2	35
18	The Instability of Ni{N(SiMe ₃) ₂ } ₂ : A Fifty Year Old Transition Metal Silylamide Mystery. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12914-12917.		

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19	A Monomeric Aluminum Imide (Iminoalane) with Al \equiv N Triple-Bonding: Bonding Analysis and Dispersion Energy Stabilization. <i>Journal of the American Chemical Society</i> , 2021, 143, 6351-6356.	6.6	32
20	Molecular Complexes Featuring Unsupported Dispersion-Enhanced Aluminum \equiv Copper and Gallium \equiv Copper Bonds. <i>Journal of the American Chemical Society</i> , 2020, 142, 19874-19878.	6.6	28
21	Formation, Structural Characterization, and Calculated NMR Chemical Shifts of Selenium-Nitrogen Compounds from SeCl ₄ and ArNHLi (Ar = supermesityl, mesityl). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 1947-1954.	0.6	27
22	Electronic Structures and Molecular Properties of Chalcogen Nitrides Se ₂ N ₂ and SeSN ₂ . <i>Journal of Physical Chemistry A</i> , 2005, 109, 6309-6317.	1.1	26
23	Reactions of <i>m</i> -Terphenyl-Stabilized Germylene and Stannylene with Water and Methanol: Oxidative Addition versus Arene Elimination and Different Reaction Pathways for Alkyl- and Aryl-Substituted Species. <i>Organometallics</i> , 2015, 34, 5785-5791.	1.1	26
24	Preparation and Characterization of P ₂ BCh Ring Systems (Ch=S, Se) and Their Reactivity with N-Heterocyclic Carbenes. <i>Chemistry - A European Journal</i> , 2018, 24, 672-680.	1.7	26
25	Boron \equiv 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
26	Fabrication of Porous Hydrogenation Catalysts by a Selective Laser Sintering 3D Printing Technique. <i>ACS Omega</i> , 2019, 4, 12012-12017.	1.6	26
27	Theoretical investigation of paramagnetic group 13 diazabutadiene radicals: insights into the prediction and interpretation of EPR spectroscopy parameters. <i>Dalton Transactions</i> , 2006, , 1885.	1.6	25
28	Halogen and Hydrogen Bonded Complexes of 5-Iodouracil. <i>Crystal Growth and Design</i> , 2013, 13, 4769-4775.	1.4	24
29	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
30	Mono- and Bis(imidazolidinium ethynyl) Cations and Reduction of the Latter To Give an Extended Bis(1,4-(3)Cumulene) \equiv carboquinoid System. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 749-754.	57.2	24
31	Porous 3D Printed Scavenger Filters for Selective Recovery of Precious Metals from Electronic Waste. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800048.	2.7	24
32	Coexistence of long-range antiferromagnetic order and slow relaxation of the magnetization in the first lanthanide complex of a 1,2,4-benzotriazinyl radical. <i>Dalton Transactions</i> , 2017, 46, 12790-12793.	1.6	23
33	Conformations and Energetics of Sulfur and Selenium Diimides. <i>Inorganic Chemistry</i> , 2003, 42, 2447-2454.	1.9	18
34	Computational Analysis of π Back-Bonding in Metallylene \equiv Isocyanide Complexes R ₂ MCNR ₂ (M = Si, Ge, Sn; R = <i>t</i> -Bu, Ph; R ₂ = Me, <i>t</i> -Bu, Ph). <i>Organometallics</i> , 2013, 32, 6690-6700.	1.1	18
35	Paramagnetic aluminium $\hat{\text{I}}^2$ -diketiminato. <i>Chemical Communications</i> , 2012, 48, 8949.	2.2	17
36	Trapping Rare and Elusive Phosphinidene Chalcogenides. <i>Angewandte Chemie</i> , 2017, 129, 6332-6336.	1.6	17

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37	Theoretical Investigation of Paramagnetic Diazabutadiene Gallium(III)-Phictogen Complexes: Insights into the Interpretation and Simulation of Electron Paramagnetic Resonance Spectra. <i>Inorganic Chemistry</i> , 2005, 44, 8277-8284.	1.9	16
38	Room-Temperature Magnetic Bistability in a Salt of Organic Radical Ions. <i>Journal of the American Chemical Society</i> , 2021, 143, 15912-15917.	6.6	16
39	Effects of Remote Ligand Substituents on the Structures, Spectroscopic, and Magnetic Properties of Two-Coordinate Transition-Metal Thiolate Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 6491-6502.	1.9	15
40	Side-on Coordination in Isostructural Nitrous Oxide and Carbon Dioxide Complexes of Nickel. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7077-7081.	7.2	15
41	Cleavage of Ge-Ge and Sn-Sn Triple Bonds in Heavy Group 14 Element Alkyne Analogues (E = Ge, Sn; Ar = Pr ⁴ , Pr ² , Ar = Pr ⁴ , Pr ²) by Reaction with Group 6 Carbonyls. <i>Organometallics</i> , 2016, 35, 2759-2767.	1.1	14
42	Nickel as a Lewis Base in a C ₃ -Shaped Nickel(0) Germylene Complex Incorporating a Flexible Bis(NHC) Ligand. <i>Angewandte Chemie</i> , 2019, 131, 160-164.	1.6	13
43	Tridentate C ¹ -O ⁺ -N ⁺ halogen bonds. <i>CrystEngComm</i> , 2017, 19, 4960-4963.	1.3	12
44	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
45	Group 13 complexes of dipyridylmethane, a forgotten ligand in coordination chemistry. <i>Dalton Transactions</i> , 2015, 44, 18247-18259.	1.6	10
46	Mono- and Bis(imidazolidinium ethynyl) Cations and Reduction of the Latter To Give an Extended Bis(1,4-dithia[3]cumulene)-carboquinoid System. <i>Angewandte Chemie</i> , 2018, 130, 757-762.	1.6	10
47	Non-Innocent Base Properties of 3- and 4-Pyridyl-dithia- and Diselenadiazolyl Radicals: The Effect of N-Methylation. <i>Inorganic Chemistry</i> , 2018, 57, 13901-13911.	1.9	10
48	Polymorphism in a π -stacked Blatter radical: structures and magnetic properties of 3-(phenyl)-1-(pyrid-2-yl)-1,4-dihydrobenzo[1,2,4]triazin-4-yl. <i>CrystEngComm</i> , 2020, 22, 5453-5463.	1.3	10
49	Haptotropism in a Nickel Complex with a Neutral, π -Bridging cyclo-P ₄ Ligand Analogous to Cyclobutadiene. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
50	Comment on "Crystallographic Snapshot of an Arrested Intermediate in the Biomimetic Activation of CO ₂ ". <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7484-7487.	7.2	8
51	Phosphorus-Chalcogen Ring Expansion and Metal Coordination. <i>Inorganic Chemistry</i> , 2017, 56, 13500-13509.	1.9	8
52	Effect of a Rigid Sulfonamide Bond on Molecular Folding: A Case Study. <i>Crystal Growth and Design</i> , 2015, 15, 2602-2608.	1.4	7
53	Synthesis of new hybrid 1,4-thiazinyl-1,2,3-dithiazolyl radicals via Smiles rearrangement. <i>Dalton Transactions</i> , 2017, 46, 16004-16008.	1.6	7
54	Assembly of a planar, tricyclic B ₄ N ₈ framework with s-indacene structure. <i>Chemical Communications</i> , 2007, , 4522.	2.2	4

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55	Synthesis and characterisation of p-block complexes of biquinoline at different ligand charge states. Dalton Transactions, 2017, 46, 1377-1381.	1.6	4
56	Divergent reactivity of nucleophilic 1-bora-7a-azaindenide anions. Dalton Transactions, 2018, 47, 734-741.	1.6	4
57	The Role of Orbital Symmetries in Enforcing Ferromagnetic Ground State in Mixed Radical Dimers. Journal of Physical Chemistry Letters, 2018, 9, 3624-3630.	2.1	4
58	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
59	Bis[cyclic (alkyl)(amino)carbene] isomers: Stable <i>trans</i> -bis(CAAC) versus <i>cis</i> -bis(CAAC) facile olefin formation for <i>cis</i> -bis(CAAC). Chemical Communications, 2022, 58, 6482-6485.	2.2	4
60	Synthesis of a labile sulfur-centred ligand, [S(H)C(PPH ₂) ₂] ⁺ : structural diversity in lithium(ⁱ), zinc(ⁱⁱ) and nickel(ⁱⁱ) complexes. Dalton Transactions, 2016, 45, 12691-12701.	1.6	3
61	Oligoamide Foldamers as Helical Chloride Receptors—the Influence of Electron-Withdrawing Substituents on Anion-Binding Interactions. Chemistry - an Asian Journal, 2019, 14, 647-654.	1.7	3
62	Side-on Coordination in Isostructural Nitrous Oxide and Carbon Dioxide Complexes of Nickel. Angewandte Chemie, 2021, 133, 7153-7157.	1.6	2
63	Haptotropism in a Nickel Complex with a Neutral, σ -Bridging cyclo-P ₄ Ligand Analogous to Cyclobutadiene. Angewandte Chemie, 0, , .	1.6	2
64	Tetracyclic silaheterocycle formed through a pericyclic reaction cascade including a two-fold intramolecular C—C bond activation. Chemical Communications, 2022, 58, 3549-3552.	2.2	2
65	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