

Hans-Jörg Himmel

List of Publications by Year in descending order

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199
papers

5,187
citations

87723

38
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161609

54
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219
all docs

219
docs citations

219
times ranked

2609
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactions of Ground State and Electronically Excited Atoms of Main Group Elements: a Matrix Perspective. <i>Chemical Reviews</i> , 2002, 102, 4191-4242.	23.0	141
2	Intrinsic Dinitrogen Activation at Bare Metal Atoms. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6264-6288.	7.2	117
3	Formation and Characterization of the Gallium and Indium Subhydride Molecules Ga ₂ H ₂ and In ₂ H ₂ : A Matrix Isolation Study. <i>Journal of the American Chemical Society</i> , 2002, 124, 4448-4457.	6.6	96
4	1,2,4,5-tetrakis(tetramethylguanidino)benzene: Synthesis and Properties of a New Molecular Electron Donor. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5907-5914.	1.2	91
5	What Makes a Strong Organic Electron Donor (or Acceptor)?. <i>Chemistry - A European Journal</i> , 2015, 21, 8578-8590.	1.7	75
6	Thermal and Photochemical Reactions of Aluminum, Gallium, and Indium Atoms (M) in the Presence of Ammonia: A Generation and Characterization of the Species M·NH ₃ , HMNH ₂ , MNH ₂ , and H ₂ MNH ₂ . <i>Journal of the American Chemical Society</i> , 2000, 122, 9793-9807.	6.6	72
7	Synthesis of a Stable B ₂ H ₅ ⁺ Analogue by Protonation of a Double Base-Stabilized Diborane(4). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5538-5541.	7.2	71
8	Synthesis and Characterization of a New Guanidine-Borane Complex and a Dinuclear Boron(II) Hydride with Bridging Guanidinate Ligands. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4530-4534.	1.0	69
9	On the Electronic Structure of Ni ^{II} Complexes That Feature Chelating Bisguanidine Ligands. <i>Chemistry - A European Journal</i> , 2010, 16, 1336-1350.	1.7	67
10	Relativistic Effects on the Topology of the Electron Density. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 2182-2197.	2.3	65
11	Cleavage of the N ₂ Triple Bond by the Ti Dimer: A Route to Molecular Materials for Dinitrogen Activation?. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2799-2802.	7.2	64
12	Syntheses of the First Coordination Compounds of the New Strong Molecular Electron Donor and Double Proton Sponge 1,4,5,8-tetrakis(tetramethylguanidino)naphthalene. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 115-126.	1.0	64
13	Structural motifs and reactivity of small molecules containing subvalent Group 13 elements: matrix isolation and quantum chemical studies. <i>Dalton Transactions</i> , 2003, , 3639.	1.6	63
14	A boron-boron coupling reaction between two ethyl cation analogues. <i>Nature Chemistry</i> , 2013, 5, 1029-1034.	6.6	62
15	Synthesis and Structural Characterization of a Stable Dimeric Boron(II) Dication. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9110-9113.	7.2	61
16	Guanidinyll-Functionalized Aromatic Compounds (GFAs) - Charge and Spin Density Studies as Starting Points for the Development of a New Class of Redox-Active Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1940-1952.	0.6	60
17	The Doubly Base-Stabilized Diborane(4) [HB(1/4hpp)] ₂ (hpp =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 112 Td and Reactions with S ₈ and Disulfides. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5201-5210.	1.0	59
18	The Electronic Structure of the Tris(ethylene) Complexes [M(C ₂ H ₄) ₃] (M=Ni, Pd, and Pt): A Combined Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , 2007, 13, 10078-10087.	1.7	57

#	ARTICLE	IF	CITATIONS
19	On the Chemistry of the Strong Organic Electron Donor 1,2,4,5-tetrakis(tetramethylguanidino)benzene: Electron Transfer in Donor-Acceptor Couples and Binuclear Late Transition Metal Complexes. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3791-3800.	1.0	57
20	Heats of Hydrogenation of Compounds Featuring Main Group Elements and with the Potential for Multiply Bonding. <i>Chemistry - A European Journal</i> , 2002, 8, 2397.	1.7	54
21	The Flexible Coordination Modes of Guanidine Ligands in Zn Alkyl and Halide Complexes: Chances for Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 83-90.	1.0	54
22	Subvalent Compounds Featuring Direct Metal-Metal Bonds: The Zn ₂ Zn Bond in [Cp* ₂ Zn ₂]. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3006-3008.	7.2	53
23	Characterization and Photochemistry of the Gallium and Indium Subhydrides Ga ₂ H ₂ and In ₂ H ₂ This work was supported by the Deutsche Forschungsgemeinschaft (Habilitation grant to H.J. H.), the CNRS (L. M.), and the EPSRC (A. J. D.). <i>Angewandte Chemie - International Edition</i> , 2002, 41, 796.	7.2	52
24	Why Does a Ga ₂ Dimer React Spontaneously with H ₂ , but a Ga Atom Does Not? A Detailed Quantum Chemical Investigation of the Differences in Reactivity Between Ga Atoms and Ga ₂ Dimers, in Combination with Experimental Results. <i>Chemistry - A European Journal</i> , 2003, 9, 3909-3919.	1.7	49
25	Mono- and Diprotonation of the Superbasic Bisguanidine 1,2-bis(1,2,4,5-tetrakis(tetramethylguanidino)benzene (btmgb) and Pt ^{II} and Pt ^{IV} Complexes of Chelating Bisguanidines and Guanidines. <i>Chemistry - A European Journal</i> , 2008, 14, 7813-7821.	1.7	49
26	Stabilization and Activation: New Alkyl Complexes of Zinc, Magnesium and Cationic Aluminium Featuring Chelating Bisguanidine Ligands. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4795-4808.	1.0	49
27	Combining NMR of Dynamic and Paramagnetic Molecules: Fluxional High-Spin Nickel(II) Complexes Bearing Bisguanidine Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 1942-1955.	1.9	48
28	The First Cyanomethyl Complex of Gold, Synthesized by Reaction of a Au ^I Complex with Acetonitrile in the Presence of a New Guanidine Superbase. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4783-4789.	1.0	47
29	Thermal and Photolytic Reactions of Gallium and Indium Atoms (M) and Their Dimers M ₂ with Carbon Monoxide in Low-Temperature Matrices: Formation of Terminal, Bridged, and Ionic Carbonyl Derivatives. <i>Journal of Physical Chemistry A</i> , 2000, 104, 3642-3654.	1.1	46
30	Valence tautomerism in copper coordination chemistry. <i>Inorganica Chimica Acta</i> , 2018, 481, 56-68.	1.2	46
31	Chemistry of Guanidinate-Stabilised Diboranes: Transition-Metal-Catalysed Dehydrocoupling and Hydride Abstraction. <i>Chemistry - A European Journal</i> , 2014, 20, 12514-12527.	1.7	45
32	Characterization of Isolated Ga ₂ Molecules by Resonance Raman Spectroscopy and Variations of Ga-Ga Bonding. <i>Chemistry - A European Journal</i> , 2004, 10, 5936-5941.	1.7	44
33	Low valent and would-be multiply bonded derivatives of the Group 13 metals Al, Ga and In revealed through matrix isolation. <i>Polyhedron</i> , 2002, 21, 473-488.	1.0	42
34	Successive Ligand and Metal Oxidation: Redox Reactions Involving Binuclear Cu ^I Complexes of Chelating Guanidine Ligands. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1839-1846.	1.0	42
35	Diborane(4)-metal bonding: between hydrogen bridges and frustrated oxidative addition. <i>Chemical Communications</i> , 2012, 48, 5277.	2.2	42
36	The First Metal Complexes of the Proton Sponge 1,8-Bis(N,N-dimethyl-2,2-tetramethylguanidino)naphthalene: Syntheses and Properties. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4440-4447.	1.0	41

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37	Reactions of Aluminum, Gallium, and Indium (M) Atoms with Phosphine: Generation and Characterization of the Species $M\cdot PH_3$, $HMPH_2$, and H_2MPH . <i>Inorganic Chemistry</i> , 2001, 40, 396-407.	1.9	40
38	Efficient n-Doping and Hole Blocking in Single-Walled Carbon Nanotube Transistors with 1,2,4,5-Tetrakis(tetramethylguanidino)benzene. <i>ACS Nano</i> , 2018, 12, 5895-5902.	7.3	40
39	A Valence Tautomeric Dinuclear Copper Tetrakisguanidine Complex. <i>Chemistry - A European Journal</i> , 2016, 22, 10438-10445.	1.7	39
40	Formation and Characterization of the Indium Hydride Molecules H_2InCl and $HInCl_2$: Matrix Isolation and Quantum Chemical Studies. <i>Journal of the American Chemical Society</i> , 2000, 122, 922-930.	6.6	38
41	Trapped in a Complex: the 1,2,4,5-tetrakis(tetramethylguanidino)benzene Radical Cation ($tmgbc^+$) with a Bisallylic Structure. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3102-3108.	1.0	38
42	Wrapping an Organic Reducing Reagent in a Cationic Boron Complex and Its Use in the Synthesis of Polyhalide Monoanionic Networks. <i>Chemistry - A European Journal</i> , 2012, 18, 14108-14116.	1.7	38
43	Copper Complexes of New Redox-Active 4,5-Bisguanidino-Substituted Benzodioxole Ligands: Control of the Electronic Structure by Counter-Ligands, Solvent, and Temperature. <i>Chemistry - A European Journal</i> , 2016, 22, 16187-16199.	1.7	38
44	A Stable Hexakis(guanidino)benzene: Realization of the Strongest Neutral Organic Four-Electron Donor. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3360-3363.	7.2	37
45	Dinitrogen fixation and activation by Ti and Zr atoms, clusters and complexes. <i>New Journal of Chemistry</i> , 2006, 30, 1253.	1.4	36
46	First Dinuclear B(II) Monocations with Bridging Guanidinate Ligands: Synthesis and Properties. <i>Inorganic Chemistry</i> , 2008, 47, 4774-4778.	1.9	36
47	Mono- and Dinuclear Ni ^{II} and Co ^{II} Complexes that Feature Chelating Guanidine Ligands: Structural Characteristics and Molecular Magnetism. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4770-4782.	1.0	36
48	Reactions between Boron and Magnesium Halides and the Bicyclic Guanidine hppH (1,3,4,6,7,8-hexahydro-2H-pyrimido[1,2-a]pyrimidine): Guanidines with New Structural Motifs. <i>Zeitschrift Für Anorganische Und Allgemeine Chemie</i> , 2010, 636, 543-550.	0.6	36
49	Redox-Active Guanidine Ligands with Pyridine and p-Benzoquinone Backbones. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4833-4845.	1.0	36
50	Synthesis and Characterization of a Doubly Base-Stabilized $B_3H_6^+$ Analogue. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10444-10447.	7.2	35
51	Bonding in Diborane-Metal Complexes: A Quantum-Chemical and Experimental Study of Complexes Featuring Early and Late Transition Metals. <i>Chemistry - A European Journal</i> , 2013, 19, 7395-7409.	1.7	35
52	Tetraguanidino-functionalized phenazine and fluorene dyes: synthesis, optical properties and metal coordination. <i>Dalton Transactions</i> , 2015, 44, 3467-3485.	1.6	35
53	Compounds featuring a bond between a Group 13 (M) and a Group 15 element (N or P) and with the formulae $HmMNH_n$ and $HmMPH_n$: structural aspects and bonding. <i>Dalton Transactions RSC</i> , 2001, , 535-545.	2.3	34
54	A Radical Tricationic Rhomboid Tetraborane(4) with Four-Center, Five-Electron Bonding. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4345-4347.	7.2	34

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55	Thermal and Catalytic Dehydrogenation of the Guanidine-Borane Adducts H3B·hppH (hppH = Tj ETQq1 1 0.784314 rgBT /Overlock 10 Quantum Chemical Study. European Journal of Inorganic Chemistry, 2008, 2008, 5482-5493.	1.0	33
56	Guanidines as Reagents in Proton-Coupled Electron-Transfer Reactions and Redox Catalysts. Synlett, 2018, 29, 1957-1977.	1.0	33
57	The Borane Complexes Htbo·BH3 and Htbn·BH3 (Htbo = 1,4,6-Triazabicyclo[3.3.0]oct-4-ene, Htbn = Tj ETQq1 1 0.784314 rgBT /Ov European Journal of Inorganic Chemistry, 2009, 2009, 4809-4819.	1.0	32
58	Oxidation of Organic Molecules with a Redox-Active Guanidine Catalyst. Angewandte Chemie - International Edition, 2017, 56, 16410-16413.	7.2	32
59	Synthesis and Characterization of Novel Guanidine Ligands Featuring Biphenyl or Binaphthyl Backbones. European Journal of Inorganic Chemistry, 2011, 2011, 1302-1314.	1.0	31
60	The control of the electronic structure of dinuclear copper complexes of redox-active tetrakisguanidine ligands by the environment. Dalton Transactions, 2016, 45, 15828-15839.	1.6	31
61	An Alternative Way of Characterising the Bonding in Compounds Featuring Main-Group Elements and with the Potential for Multiple Bonding: On the Dissociation of Binary Main-Group Hydrides. Chemistry - A European Journal, 2003, 9, 748-755.	1.7	30
62	Synthesis and Structural Characterisation of cis- and trans-[(hppH)2PtCl2], [(hppH)3PtCl]+Cl- and Some New Salts of the [hppH2]+ Cation (hppH = 1,3,4,6,7,8-Hexahydro-2H-pyrimido[1,2-a]pyrimidine): The Importance of Hydrogen Bonding. European Journal of Inorganic Chemistry, 2008, 2008, 1248-1257.	1.0	30
63	Tuning the Properties of Redox-Active Guanidino-Functionalized Aromatic Ligands by Substitution: Experiment and Theory. European Journal of Inorganic Chemistry, 2012, 2012, 1620-1631.	1.0	29
64	Inter- and Intramolecular Electron Transfer in Copper Complexes: Electronic Entatic State with Redox-Active Guanidine Ligands. Chemistry - A European Journal, 2017, 23, 13607-13611.	1.7	28
65	Charge and Thermoelectric Transport in Polymer-Sorted Semiconducting Single-Walled Carbon Nanotube Networks. ACS Nano, 2020, 14, 15552-15565.	7.3	28
66	Counter-ligand control of the electronic structure in dinuclear copper-tetrakisguanidine complexes. Dalton Transactions, 2015, 44, 19111-19125.	1.6	27
67	Tuning the nucleophilicity of electron-rich diborane(4) compounds with bridging guanidinate substituents by substitution. Dalton Transactions, 2018, 47, 2009-2017.	1.6	27
68	Spectroscopic Evidence for a Dinitrogen Complex of Gallium and Estimation of the Ga-N2 Bond Strength. Chemistry - A European Journal, 2005, 11, 4096-4102.	1.7	26
69	Reactivity of titanium dimer and molecular nitrogen in rare gas matrices. Vibrational and electronic spectra and structure of Ti2N2. Physical Chemistry Chemical Physics, 2006, 8, 2000-2011.	1.3	26
70	One- versus Two-Electron Oxidation of Complexed Guanidino-Functionalized Aromatic Compounds. European Journal of Inorganic Chemistry, 2014, 2014, 6039-6050.	1.0	26
71	Calculated Enthalpies for Dimerisation of Binary, Unsaturated, Main-Group Element Hydrides as a Means to Analyse Their Potential for Multiple Bonding. European Journal of Inorganic Chemistry, 2003, 2003, 2153-2163.	1.0	25
72	1,1,3,3-Tetramethylguanidine-gallane, (Me2N)2CN(H)·GaH3: an unusually strongly bound gallane adduct. Dalton Transactions, 2005, , 1591-1597.	1.6	25

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73	Donor–Acceptor Couples and Late Transition Metal Complexes of Oxidation-Labile 1,4,5,8-tetrakis(guanidino)naphthalene Superbases. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1593-1604.	1.0	25
74	Zinc Halide and Alkylzinc Complexes of a Neutral Doubly Base-Stabilized Diborane(4). <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2657-2661.	1.0	25
75	Radical Monocationic Guanidino-Functionalized Aromatic Compounds (GFAs) as Bridging Ligands in Dinuclear Metal Acetate Complexes: Synthesis, Electronic Structure, and Magnetic Coupling. <i>Inorganic Chemistry</i> , 2016, 55, 1683-1696.	1.9	25
76	On the Dual Reactivity of a Nucleophilic Dihydrodiborane: Reaction at the B–B Bond and/or the B–H Bond. <i>Chemistry - A European Journal</i> , 2018, 24, 1209-1216.	1.7	25
77	Electron-Deficient Triborane and Tetraborane Ring Compounds: Synthesis, Structure, and Bonding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11600-11617.	7.2	25
78	Amidoalane, amidogallane and amidoindane, H ₂ MNH ₂ (M = Al, Ga or In): a matrix study of three prototypal molecules with the potential for M–N multiple bonding. <i>Chemical Communications</i> , 2000, , 871-872.	2.2	24
79	Metal Cluster Models for Heterogeneous Catalysis: A Matrix-Isolation Perspective. <i>Chemistry - A European Journal</i> , 2018, 24, 8941-8961.	1.7	24
80	Bisguanidines with Biphenyl, Binaphthyl, and Bipyridyl Cores: Proton-Sponge Properties and Coordination Chemistry. <i>Chemistry - A European Journal</i> , 2013, 19, 8958-8977.	1.7	23
81	Redox-Controlled Hydrogen Bonding: Turning a Superbase into a Strong Hydrogen-Bond Donor. <i>Chemistry - A European Journal</i> , 2014, 20, 5914-5925.	1.7	23
82	Trinuclear Complexes and Coordination Polymers of Redox-Active Guanidino-Functionalized Aromatic (GFA) Compounds with a Triphenylene Core. <i>Inorganic Chemistry</i> , 2014, 53, 9876-9896.	1.9	23
83	Ein radikaltrikationisches Tetraboran(4) mit rhombischer Struktur und Vier-Zentren-¼n-Elektronen-Bindung. <i>Angewandte Chemie</i> , 2016, 128, 4417-4420.	1.6	23
84	On the reactivity of subvalent compounds of the Group 13 elements: exploration of the mechanism for the reactions of MCl (M = Ga or In) with dihydrogen to give H ₂ MCl. Dedicated to Professor D. Fenske on the occasion of his 60th birthday.. <i>Dalton Transactions RSC</i> , 2002, , 2678-2682.	2.3	22
85	A New Class of Binuclear Gallium Hydrides: Synthesis and Properties of [{GaCl(hpp)H} ₂] (hpp=1,3,4,6,7,8-Hexahydro-2H-pyrimido[1,2-a]pyrimidate). <i>Chemistry - A European Journal</i> , 2007, 13, 2648-2654.	1.7	22
86	Synthesis and Characterisation of Some New Zinc Carbamate Complexes Formed by CO ₂ Fixation and Their Use as Precursors for ZnO Particles under Mild Conditions. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3177-3185.	1.0	22
87	Synthesis of Trinuclear, Dinuclear and Mononuclear Carbamate-Zinc Complexes from Tetranuclear Precursors: A Top-Down Synthetic Approach to New Carbamates. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2170-2178.	1.0	22
88	Metal-Free C–C Coupling Reactions with Tetraguanidino-Functionalized Pyridines and Light. <i>Chemistry - A European Journal</i> , 2014, 20, 5288-5297.	1.7	22
89	Thermochromism of Cu ^I Tetrakisguanidine Complexes: Reversible Activation of Metal–Ligand Charge-Transfer Bands. <i>Chemistry - A European Journal</i> , 2015, 21, 16494-16503.	1.7	22
90	Urea Azines (Bisguanidines): Electronic Structure, Redox Properties, and Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2345-2361.	1.0	22

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91	Cyclic and Linear NiO ₂ : A Multireference Configuration Interaction Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9181-9188.	1.1	21
92	Ein stabiles Hexakis(guanidino)benzol: Synthese des stärksten neutralen organischen Vier-Elektronen-Donors. <i>Angewandte Chemie</i> , 2017, 129, 3408-3412.	1.6	21
93	Catalytic Aerobic Phenol Homo- and Cross-Coupling Reactions with Copper Complexes Bearing Redox-Active Guanidine Ligands. <i>Chemistry - A European Journal</i> , 2019, 25, 8279-8288.	1.7	21
94	Gal as Ligand in Transition-Metal Complexes: An Alternative to CO or N ₂ ?. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6326-6328.	7.2	20
95	Novel Bi- and Trinuclear Gallium Halides and Hydrides with Acyclic and Bicyclic Guanidinate Substituents: Synthesis and Reactivity. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4952-4961.	1.0	20
96	Dehydrogenative Coupling Reactions with Oxidized Guanidino-Functionalized Aromatic Compounds: Novel Options for C-H Bond Activation. <i>Chemistry - A European Journal</i> , 2016, 22, 11971-11976.	1.7	20
97	Nucleophilic Neutral Diborane(4) Compounds with sp ³ -Hybridized Boron Atoms. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2139-2154.	1.0	20
98	Stimulation of Redox-Induced Electron Transfer by Interligand Hydrogen Bonding in a Cobalt Complex with Redox-Active Guanidine Ligand. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10415-10422.	7.2	20
99	Highly Oxidized Semiconducting Coordination Polymers – Coupled Oxidation and Coordination of Guanidine Electron Donors. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3156-3167.	1.0	19
100	Construction of copper chains with new fluorescent guanidino-functionalized naphthyridine ligands. <i>Dalton Transactions</i> , 2016, 45, 16966-16983.	1.6	19
101	Homo- and Heterobinuclear Cu and Pd Complexes with a Bridging Redox-Active Bisguanidino-Substituted Dioxolene Ligand: Electronic Structure and Metal-Ligand Electron Transfer. <i>Chemistry - A European Journal</i> , 2017, 23, 11636-11648.	1.7	19
102	Ti ₂ : Accurate Determination of the Dissociation Energy from Matrix Resonance Raman Spectra and Chemical Interaction With Noble Gases. <i>Chemistry - A European Journal</i> , 2004, 10, 627-633.	1.7	18
103	Synthesis and structural characterisation of primary amine adducts of gallane, RH ₂ N-GaH ₃ , and of their decomposition products, [RHNGaH ₂] _n (R = Me, n = 3; R = tBu, n = 2). <i>Dalton Transactions</i> , 2005, , 3281.	1.6	18
104	Repeated Dihydrogen Elimination from Boranes and Gallanes Stabilized by Guanidine-Type Bases: A Quantum Chemical Study Motivated by Recent Experimental Results. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3565-3572.	1.0	18
105	Boron(II) Cations: Interplay between Lewis-Base Acceptor and Electron-Donor Properties. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11456-11459.	7.2	18
106	Intramolecular metal-ligand electron transfer triggered by co-ligand substitution. <i>Dalton Transactions</i> , 2018, 47, 9430-9441.	1.6	18
107	The electronic structure of VO in its ground and electronically excited states: A combined matrix isolation and quantum chemical (MRCI) study. <i>Journal of Chemical Physics</i> , 2015, 143, 024309.	1.2	17
108	Bent and twisted: the electronic structure of 2-azapropenylium ions obtained by guanidine oxidation. <i>RSC Advances</i> , 2016, 6, 39323-39329.	1.7	17

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109	Oxidation von organischen Substraten mit einem redoxaktiven Guanidinkatalysator. Angewandte Chemie, 2017, 129, 16630-16633.	1.6	17
110	Four Boron Atoms, Four Positive Charges, and Four Skeletal Electrons: A Fluorescent π -Aromatic Tetraborane(4). Angewandte Chemie - International Edition, 2019, 58, 5897-5901.	7.2	17
111	Synthesis of Heterobimetallic Zn/Co Carbamates: Single-Source Precursors of Nanosized Magnetic Oxides Under Mild Conditions. European Journal of Inorganic Chemistry, 2011, 2011, 860-867.	1.0	16
112	4,4',5,5'-Tetrakis(guanidinyl)binaphthyl – Synthesis and Properties of Two Redox-Active Ligands and Oxidative C–C Coupling to Perylene Derivatives. European Journal of Inorganic Chemistry, 2013, 2013, 163-171.	1.0	16
113	Redox Reactions Between Guanidine Electron Donors and Silver Dicyanamide: Synthesis of C,N Material Precursors and Coordination Polymers. European Journal of Inorganic Chemistry, 2013, 2013, 3671-3679.	1.0	16
114	Twofold Oxidized and Twofold Protonated Redox-Active Guanidine: An Ultimate Intermediate in Proton-Coupled Electron-Transfer Reactions. European Journal of Organic Chemistry, 2018, 2018, 5910-5915.	1.2	16
115	Solvent Control of Ligand–Metal Electron Transfer in Mononuclear Copper Complexes with Redox-Active Bisguanidine Ligands. European Journal of Inorganic Chemistry, 2018, 2018, 3660-3667.	1.0	16
116	Elektronen-defizitäre Triboran- und Tetraboran-Ringverbindungen: Synthese, Struktur und Bindung. Angewandte Chemie, 2019, 131, 11724-11742.	1.6	16
117	Use of Crown Ether Functions as Secondary Coordination Spheres for the Manipulation of Ligand–Metal Intramolecular Electron Transfer in Copper–Guanidine Complexes. Chemistry - A European Journal, 2021, 27, 959-970.	1.7	16
118	On the Oxidation of Gallium and Indium: Characterization of the Cyclic and Linear GaO ₂ and InO ₂ Molecules Generated by the Spontaneous and Photoinduced Reaction of Ga and In Atoms with O ₂ and Determination of the Reaction Mechanism. Chemistry - A European Journal, 2005, 11, 5575-5588.	1.7	15
119	Diboranyl Phosphonium Cations: Synthesis and Chemical Properties. European Journal of Inorganic Chemistry, 2015, 2015, 5188-5195.	1.0	15
120	<i>rmsd</i> : A Comprehensive Tool for Structural Analysis. Journal of Chemical Information and Modeling, 2017, 57, 428-438.	2.5	15
121	Catalyst-Free Hydroboration of CO ₂ With a Nucleophilic Diborane(4). Chemistry - A European Journal, 2018, 24, 16983-16986.	1.7	15
122	Bor(II)-Kationen: Ein Zusammenspiel zwischen Lewis-Paar-Akzeptor- und Elektronendonoreigenschaften. Angewandte Chemie, 2018, 130, 11627-11630.	1.6	15
123	Electron-Rich, Lewis Acidic Diborane Meets π -Heterocyclic Aromatics: Formation and Electron Transfer in Cyclophane Boranes. Chemistry - A European Journal, 2020, 26, 3435-3440.	1.7	15
124	Ni(N ₂) ₄ revisited: an analysis of the Ni–N ₂ bonding properties of this benchmark system on the basis of UV/Vis, IR and Raman spectroscopy. Dalton Transactions, 2005, , 2615.	1.6	14
125	Chemistry of Dicationic Diboranes. European Journal of Inorganic Chemistry, 2020, 2020, 3017-3029.	1.0	14
126	CO ₂ Fixation by Alkylzinc Amides: A Quantum Chemical Study Motivated by Recent Experimental Results. European Journal of Inorganic Chemistry, 2007, 2007, 675-683.	1.0	13

#	ARTICLE	IF	CITATIONS
127	MRCI investigation of Ni ₂ O ₂ and Ni ₂ O ₂ ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2241.	1.3	13
128	Guanidino-Functionalised Aromatic Electron Donors at Work: Competing Hydrogen- and Electron-Transfer Reactions in the Course of the Synthesis of Gold Acetylide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2975-2983.	1.0	13
129	Redox Chemistry and Group 10 Metal Complexes of Aromatic Compounds with Bulky Bicyclic Guanidino Groups. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4220-4233.	1.0	13
130	Synthesis of Molecular Gallium Hydrides by Means of Low-Temperature Catalytic Dehydrogenation. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2368-2372.	1.0	13
131	Tetracyanoquinodimethane Reduction by Complexed Guanidinyl-Functionalized Aromatic Compounds. <i>ChemPhysChem</i> , 2014, 15, 351-365.	1.0	13
132	Formation of a Radical Tricationic Tetraborane(4) by Hydride Abstraction from sp ³ -sp ³ -Hybridized Diboranes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4090-4098.	1.0	13
133	Photolytically Induced Reaction of Monomeric AlCl with Dihydrogen in a Solid Ar Matrix at 12 K: Generation and Characterization of the Previously Unknown Monomeric Aluminium Hydride ClAlH ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003, 629, 1477-1483.	0.6	12
134	Guanidine Electron Donors and Silver Halides: Interplay and Competition between Redox, Coordination and Polymerization Reactions. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 695-704.	1.0	12
135	Photochemical Reductive C-C Coupling with a Guanidine Electron Donor. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 5045-5054.	1.2	12
136	Hydrogen-Atom Transfer (HAT) Initiated by Intramolecular Ligand-Metal Electron Transfer. <i>Chemistry - A European Journal</i> , 2017, 23, 5520-5528.	1.7	12
137	Redox-Active Guanidines in Proton-Coupled Electron-Transfer Reactions: Real Alternatives to Benzoquinones?. <i>Chemistry - A European Journal</i> , 2019, 25, 15988-15992.	1.7	12
138	Combined Oxidation, Deprotonation, and Metal Coordination of a Redox-Active Guanidine Ligand. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4848-4860.	1.0	11
139	Metal-Free Nitrile Diboration through Activation by an Electron-Rich Diborane. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11645-11648.	7.2	11
140	Vier Boratome, vier positive Ladungen und vier Ger ^{1/4} stelektronen: ein fluoreszierendes f-aromatisches Tetraboran(4). <i>Angewandte Chemie</i> , 2019, 131, 5957-5961.	1.6	11
141	Molecular n-Doping of Large- and Small-Diameter Carbon Nanotube Field-Effect Transistors with Tetrakis(tetramethylguanidino)benzene. <i>ACS Applied Electronic Materials</i> , 2021, 3, 804-812.	2.0	11
142	On the Mechanism of CO ₂ Insertion into the Mg-N Bond of Molecular Mono- and Dinuclear Magnesium Compounds: A Quantum Chemical Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 2191-2198.	0.6	10
143	The 1,1,3-Tetramethylguanidine-Borane Adduct: Theoretical Comparison of the Bonding Properties in Amine- and Guanidine-Borane Adducts. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 322-329.	1.0	10
144	Synthesis and Reactivity of a New Oxidation-Labile Heterobimetallic Mn ₆ Zn ₂ Carbamate Cluster and Precursor to Nanosized Magnetic Oxide Particles. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1387-1394.	1.0	10

#	ARTICLE	IF	CITATIONS
145	Synthesis of Oligomeric Zinc Complexes with Bicyclic and Acyclic Guanidinate Ligands. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1250-1260.	1.0	10
146	Low-Energy Electronic Excitations of N-Substituted Heteroacene Molecules: Matrix Isolation Spectroscopy in Concert with Quantum-Chemical Calculations. <i>Chemistry - A European Journal</i> , 2019, 25, 15147-15154.	1.7	10
147	Evaluation of the Synthetic Scope and the Reaction Pathways of Proton-Coupled Electron Transfer with Redox-Active Guanidines in C-H Activation Processes. <i>Chemistry - A European Journal</i> , 2020, 26, 16504-16513.	1.7	10
148	Desymmetrization of Dicationic Diboranes by Isomerization Catalyzed by a Nucleophile. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9127-9133.	7.2	10
149	High-Resolution Electronic Excitation and Emission Spectra of Pentacene and 6,13-Diazapentacene Monomers and Weakly Bound Dimers by Matrix-Isolation Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 2072-2081.	1.7	10
150	Synthesis and Characterization of the New Tetrameric Magnesium Imide Compound [(thf)MgNSiPh ₃] ₄ . <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 41-43.	1.0	9
151	Dinitrogen Activation by the Ti ₂ N ₂ Molecule: A Matrix Isolation Study. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 595-598.	1.0	9
152	On the Electronic Structure and Photochemistry of Coordinatively Unsaturated Complexes: The Case of Nickel Bis-dinitrogen, Ni(N ₂) ₂ . <i>Chemistry - A European Journal</i> , 2014, 20, 17025-17038.	1.7	9
153	Metallfreie Diborierung von Nitrilen durch Aktivierung eines elektronenreichen Diborans. <i>Angewandte Chemie</i> , 2017, 129, 11804-11807.	1.6	9
154	A Copper(I) Complex with Two Unpaired Electrons, Synthesised by Oxidation of a Copper(II) Complex with Two Redox-Active Ligands. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23451-23462.	7.2	9
155	Stabilization of Complexes of Redox-Active Guanidino-Functionalized Aromatic Compounds (GFAs) by Hydrogen-Bonding. <i>Australian Journal of Chemistry</i> , 2014, 67, 1044.	0.5	8
156	Polycationic Redox-Active Cyclophanes with Integrated Electron-Rich Diboron Units. <i>Chemistry - A European Journal</i> , 2021, 27, 15737-15750.	1.7	8
157	A Fluorescent Blue Phosphazene Dye: Synthesis, Structure and Optical Properties of 1,6-Bis(Dimethylamino)-2,5,7,10-Tetraaza-1,6-diphosphapyrene. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 547-555.	0.6	7
158	Metal-reinforced bonding. <i>Nature Chemistry</i> , 2013, 5, 88-89.	6.6	7
159	Low-energy excited states of divanadium: a matrix isolation and MRCI study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14667-14677.	1.3	7
160	Multiple Metal-Metal Bond or No Bond? The Electronic Structure of V ₂ O ₂ . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12340-12343.	7.2	7
161	Tuneable Redox Chemistry and Electrochromism of Persistent Symmetric and Asymmetric Azine Radical Cations. <i>Chemistry - A European Journal</i> , 2019, 25, 12981-12990.	1.7	7
162	On the metal-ligand bonding in dinuclear complexes with redox-active guanidine ligands. <i>Dalton Transactions</i> , 2021, 50, 9467-9482.	1.6	7

#	ARTICLE	IF	CITATIONS
163	Switching from Metal- to Ligand-Based Oxidation in Cobalt Complexes with Redox-Active Bisguanidine Ligands. <i>Chemistry - A European Journal</i> , 2021, 27, 11852-11867.	1.7	7
164	MRCI investigation of different isomers of Ni ₂ O ₂ H ₂ ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2963-2971.	1.3	6
165	Incorporation of a Redox-Active Bis(guanidine) in Low-Dimensional Tin and Lead Iodide Structures. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5539-5544.	1.0	6
166	Probing the Proton-Coupled Electron Transfer (PCET) Reactivity of a Cross-Conjugated Cruciform Chromophore by Redox-State-Dependent Fluorescence. <i>Chemistry - A European Journal</i> , 2019, 25, 3781-3785.	1.7	6
167	Boron-Boron Dehydrocoupling of Boranes Initiated by Reaction with Iodine. <i>Chemistry - A European Journal</i> , 2019, 25, 6553-6561.	1.7	6
168	Stimulierung eines redoxinduzierten Elektronentransfers durch Interligand-Wasserstoffbrücken in einem Cobaltkomplex mit redoxaktivem Guanidin-Liganden. <i>Angewandte Chemie</i> , 2021, 133, 10506-10514.	1.6	6
169	1,2,5,6-Tetrakis(guanidino)naphthalenes: Electron Donors, Fluorescent Probes and Redox-Active Ligands. <i>Chemistry - A European Journal</i> , 2020, 26, 5834-5845.	1.7	6
170	Cryptate Complexes with the Potential for CO ₂ Activation: Quantum Chemical Predictions and Synthetic Efforts. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4020-4028.	1.0	5
171	Di- and tetranuclear transition metal complexes of a tetrakisguanidino-substituted phenazine dye by stepwise coordination. <i>Dalton Transactions</i> , 2018, 47, 11016-11029.	1.6	5
172	Redox-Active Guanidines with One or Two Guanidino Groups and Their Integration in Low-Dimensional Perovskite Structures. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4147-4160.	1.0	5
173	Oxidative Addition of Dihydrogen to Divanadium in Solid Ne: Multiple-Bonded Triplet HVVH and Singlet V ₂ (1/4H). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12206-12212.	7.2	5
174	Proton-Coupled Electron Transfer (PCET) with 1,4-Bisguanidino-Benzene Derivatives: Comparative Study and Use in Acid-Initiated C-H Activation. <i>Chemistry - A European Journal</i> , 2021, 27, 11943-11956.	1.7	5
175	Derivatization of an especially electron-rich diborane. <i>Chemical Communications</i> , 2022, 58, 693-696.	2.2	5
176	Solvent-Induced Redox Isomerism of Cobalt Complexes with Redox-Active Bisguanidine Ligands. <i>Inorganic Chemistry</i> , 2022, 61, 8440-8454.	1.9	5
177	OPN and SPN: Small Molecules with Great Potential. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5541-5542.	7.2	4
178	Isomers and Electronic States of Ni ₂ O ₂ H ₂ and Evaluation of the Effect of Charge on the Electronic Properties and Reactivity of Ni ₂ O ₂ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 12635-12641.	1.1	4
179	Electron transfer in complexes of B ^{II} cations with organic Î-acceptors: a combined experimental and quantum-chemical study. <i>Dalton Transactions</i> , 2019, 48, 14354-14366.	1.6	4
180	On the Metal Cooperativity in a Dinuclear Copper-Guanidine Complex for Aliphatic C-H Bond Cleavage by Dioxygen. <i>Chemistry - A European Journal</i> , 2019, 25, 11257-11268.	1.7	4

#	ARTICLE	IF	CITATIONS
181	Desymmetrization of Dicationic Diboranes by Isomerization Catalyzed by a Nucleophile. <i>Angewandte Chemie</i> , 2020, 132, 9212-9218.	1.6	4
182	Synthesis and Structural Characterization of a Tetrameric Ammonium Chloride Cluster. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2165-2169.	1.0	3
183	Redox-Active Guanidines and Guanidinate-Substituted Diboranes. <i>Topics in Heterocyclic Chemistry</i> , 2015, , 165-203.	0.2	3
184	Metall-Metall-Mehrfachbindung oder keine Bindung? Die elektronische Struktur von V_2O_2 . <i>Angewandte Chemie</i> , 2017, 129, 12510-12514.	1.6	3
185	1,2,4,5-Tetrakis(tetramethylguanidino)-3,6-diethynylbenzenes: Fluorescent Probes, Redox-Active Ligands and Strong Organic Electron Donors. <i>Chemistry - A European Journal</i> , 2020, 26, 10336-10347.	1.7	2
186	Hetero Diels-Alder Reactions with a Dicationic Urea Azine Derived Azo Dienophile and Their Use for the Synthesis of an Electron-Rich Pentacene. <i>Chemistry - A European Journal</i> , 2020, 26, 12328-12332.	1.7	2
187	Improving electron injection and transport in polymer field-effect transistors with guanidino-functionalized aromatic n-dopants. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7485-7493.	2.7	2
188	The Vibrations of V_2O_4 : Matrix Isolation and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 9385-9391.	1.1	2
189	Directed Synthesis and Chemistry of Unsymmetric Dicationic Diboranes and Their Use in Frustrated Lewis Pair-like Chemistry. <i>Chemistry - A European Journal</i> , 2022, , e202104016.	1.7	2
190	Connecting Organic Redox-Active Building Blocks through Mild Noncatalytic C-H Activation. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	2
191	Front Cover: Incorporation of a Redox-Active Bis(guanidine) in Low-Dimensional Tin and Lead Iodide Structures (<i>Eur. J. Inorg. Chem.</i> 47/2017). <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5536-5536.	1.0	1
192	The Dioxygen Complexes of VO ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 1764-1777.	0.6	1
193	Synthese eines Kupfer(I)-Komplexes mit zwei ungepaarten Elektronen durch Oxidation eines Kupfer(II)-Komplexes mit zwei redoxaktiven Liganden. <i>Angewandte Chemie</i> , 2021, 133, 23641.	1.6	1
194	Redox-Active Dendrimer-Like Oligoguanidines and Their Use in a Proton-Coupled Electron Transfer Reaction. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	1
195	Incorporation of a Redox-Active Bis(guanidine) in Low-Dimensional Tin and Lead Iodide Structures. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5537-5537.	1.0	0
196	Frontispiece: Metal Cluster Models for Heterogeneous Catalysis: A Matrix-Isolation Perspective. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
197	Innen-Titelbild: Vier Boratome, vier positive Ladungen und vier Gerüstelektroden: ein fluoreszierendes f-aromatisches Tetraboran(4) (<i>Angew. Chem.</i> 18/2019). <i>Angewandte Chemie</i> , 2019, 131, 6165-6165.	1.6	0
198	Oxidative Addition of Dihydrogen to Divanadium in Solid Ne: Multiple-Bonded Triplet HVVH and Singlet V ₂ (H) 2. <i>Angewandte Chemie</i> , 2020, 132, 12304-12310.	1.6	0

#	ARTICLE	IF	CITATIONS
199	Use of Crown Ether Functions as Secondary Coordination Spheres for the Manipulation of Ligand-Metal Intramolecular Electron Transfer in Copper-Guanidine Complexes. Chemistry - A European Journal, 2021, 27, 829-829.	1.7	0