

# Ralf Tonner

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130  
papers

4,686  
citations

30  
h-index

65  
g-index

157  
ext. papers

5,122  
ext. citations

6  
avg, IF

6  
L-index

#	Paper	IF	Citations
130	The influence of copper on the optical band gap of heterometallic iodido antimonates and bismuthates. <i>Dalton Transactions</i> , <b>2021</b> , 50, 15855-15869	4.3	1
129	Organic Functionalization at the Si(001) Dimer Vacancy DefectStructure, Bonding, and Reactivity. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 5635-5646	3.8	1
128	Click Chemistry in Ultra-high Vacuum - Tetrazine Coupling with Methyl Enol Ether Covalently Linked to Si(001). <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8082-8087	4.8	1
127	Relevance of Backbonding for the Reactivity of Electrophilic Anions [B X ] (X=F, Cl, Br, I, CN). <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 10274-10281	4.8	7
126	Mixed Group 14-15 Metalates as Model Compounds for Doped Lead Halide Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3906-3911	16.4	2
125	Combined XPS and DFT investigation of the adsorption modes of methyl enol ether functionalized cyclooctyne on Si(001). <i>ChemPhysChem</i> , <b>2021</b> , 22, 404-409	3.2	5
124	Gemischte Gruppe-14-15-Metallate als Modellverbindungen fdotierte Bleihalogenidperowskite. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3952-3956	3.6	
123	Towards self-doping multimetal porphyrin systems. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2021</b> , 25, 162-167	1.8	1
122	Efficient hierarchical models for reactivity of organic layers on semiconductor surfaces. <i>Journal of Computational Chemistry</i> , <b>2021</b> , 42, 827-839	3.5	1
121	Surface functionalization with nonalternant aromatic compounds: a computational study of azulene and naphthalene on Si(001). <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	1
120	Chemisorption and Physisorption at the Metal/Organic Interface: Bond Energies of Naphthalene and Azulene on Coinage Metal Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8257-8268	3.8	20
119	Enhanced Bonding of Pentagon-Heptagon Defects in Graphene to Metal Surfaces: Insights from the Adsorption of Azulene and Naphthalene to Pt(111). <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1041-1053	9.6	11
118	Adsorption of Methyl-Substituted Benzylazide on Si(001): Reaction Channels and Final Configurations. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9940-9946	3.8	5
117	Influence of Ring Contraction on the Electronic Structure of Nickel Tetrapyrrole Complexes: Corrole vs Porphyrin. <i>ECS Journal of Solid State Science and Technology</i> , <b>2020</b> , 9, 061005	2	4
116	On-Surface Formation of a Transient Corrole Radical and Aromaticity-Driven Interfacial Electron Transfer. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 13825-13836	3.8	4
115	Complementary Base Lowers the Barrier in SuFEx Click Chemistry for Primary Amine Nucleophiles. <i>ACS Omega</i> , <b>2020</b> , 5, 31432-31439	3.9	4
114	Effect of Heteroaromaticity on Adsorption of Pyrazine on the Ge(100)-21 Surface. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22055-22068	3.8	1

113	Solvent-Induced Bond-Bending Isomerism in Hexaphenyl Carbodiphosphorane: Decisive Dispersion Interactions in the Solid State. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 12054-12064	5.1	5
112	$\{(\text{PhSnS})\text{SnS}\} \{(\text{MCp})\text{S}\}$ ( $\text{M} = \text{W}, \text{Mo}$ ): Minimal Molecular Models of the Covalent Attachment of Metal Chalcogenide Clusters on Doped Transition Metal Dichalcogenide Layers. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 16494-16500	16.4	9
111	Inorganic and Organic Functionalisation of Silicon Studied by Density Functional Theory <b>2019</b> , 153-166		
110	Molecular Topology and the Surface Chemical Bond: Alternant Versus Nonalternant Aromatic Systems as Functional Structural Elements. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	13
109	Understanding the Correlation between Electronic Coupling and Energetic Stability of Molecular Crystal Polymorphs: The Instructive Case of Quinacridone. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7054-7069	9.6	6
108	Spin-orbit split two-dimensional states of BiTeI/Au(1 1 1) interfaces. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 204001	1.8	2
107	Conditional Singlet Oxygen Generation through a Bioorthogonal DNA-targeted Tetrazine Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12868-12873	16.4	29
106	Gezielte Singulett-Sauerstofferzeugung durch bioorthogonale DNA-basierte Tetrazin-Ligation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13000-13005	3.6	5
105	Molecule-Metal Bond of Alternant versus Nonalternant Aromatic Systems on Coinage Metal Surfaces: Naphthalene versus Azulene on Ag(111) and Cu(111). <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 29219-29230	3.8	14
104	Template-controlled on-surface synthesis of a lanthanide supernaphthalocyanine and its open-chain polycyanine counterpart. <i>Nature Communications</i> , <b>2019</b> , 10, 5049	17.4	12
103	Titelbild: Gezielte Singulett-Sauerstofferzeugung durch bioorthogonale DNA-basierte Tetrazin-Ligation (Angew. Chem. 37/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12849-12849	3.6	
102	Synthesis of a two-dimensional organic-inorganic bismuth iodide metalate through in situ formation of iminium cations. <i>Chemical Communications</i> , <b>2019</b> , 55, 14725-14728	5.8	13
101	Deriving bonding concepts for molecules, surfaces, and solids with energy decomposition analysis for extended systems. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2019</b> , 9, e1401	7.9	18
100	Computational analysis of the competitive bonding and reactivity pattern of a bifunctional cyclooctyne on Si(001). <i>Theoretical Chemistry Accounts</i> , <b>2018</b> , 137, 1	1.9	14
99	Trendbericht Theoretische Chemie 2017: Quantenchemie f� Funktionsmaterialien. <i>Nachrichten Aus Der Chemie</i> , <b>2018</b> , 66, 316-319	0.1	
98	Comparison of the periodic slab approach with the finite cluster description of metal-organic interfaces at the example of PTCDA on Ag(110). <i>Journal of Computational Chemistry</i> , <b>2018</b> , 39, 844-852	3.5	9
97	Ab initio calculations of the concentration dependent band gap reduction in dilute nitrides. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	4
96	Ternary Iodido Bismuthates and the Special Role of Copper. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 633-640	5.1	23

95	Bond Insertion at Distorted Si(001) Subsurface Atoms. <i>Inorganics</i> , <b>2018</b> , 6, 17	2.9	7
94	Structure and vibrational properties of the PTCDA/Ag(1 1 1) interface: bilayer versus monolayer. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 354001	1.8	9
93	An experimental and computational study on isomerically pure, soluble azaphthalocyanines and their complexes and boron azasubphthalocyanines of a varying number of aza units. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 6586-6599	3.9	10
92	Dispersion-mediated steering of organic adsorbates on a precovered silicon surface. <i>Beilstein Journal of Organic Chemistry</i> , <b>2018</b> , 14, 2715-2721	2.5	3
91	From Acenaphthenes to (+)-Delavatine A: Visible-Light-Induced Ring Closure of Methyl ( $\alpha$ -Naphthyl) Acrylates. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 17686-17690	4.8	4
90	Chemisorption of a Strained but Flexible Molecule: Cyclooctyne on Si(001). <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5459-5466	4.8	18
89	Local Bi ordering in MOVPE grown Ga(As,Bi) investigated by high resolution scanning transmission electron microscopy. <i>Applied Materials Today</i> , <b>2017</b> , 6, 22-28	6.6	15
88	Precursor States of Organic Adsorbates on Semiconductor Surfaces are Chemisorbed and Immobile. <i>ChemPhysChem</i> , <b>2017</b> , 18, 3-3	3.2	
87	Chemisorption of a Strained but Flexible Molecule: Cyclooctyne on Si(001). <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5390-5390	4.8	1
86	Site-Specific Reactivity of Ethylene at Distorted Dangling-Bond Configurations on Si(001). <i>ChemPhysChem</i> , <b>2017</b> , 18, 357-365	3.2	18
85	Ether auf Si(001): Ein Paradebeispiel für die Gemeinsamkeiten zwischen Oberflächenwissenschaften und organischer Molekülchemie. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15347-15351 <sup>3,6</sup>	3	
84	Ethers on Si(001): A Prime Example for the Common Ground between Surface Science and Molecular Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15150-15154	16.4	22
83	Gas Phase Chemistry of Trimethylboron in Thermal Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 26465-26471	3.8	13
82	Modeling the Complex Adsorption Dynamics of Large Organic Molecules: Cyclooctyne on Si(001). <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 26840-26850	3.8	9
81	Precursor States of Organic Adsorbates on Semiconductor Surfaces are Chemisorbed and Immobile. <i>ChemPhysChem</i> , <b>2017</b> , 18, 34-38	3.2	17
80	An ab initio based approach to optical properties of semiconductor heterostructures. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2017</b> , 25, 065001	2	4
79	Surface Chemistry of tert-Butylphosphine (TBP) on Si(001) in the Nucleation Phase of Thin-Film Growth. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 14920-14928	4.8	7
78	Difluoroborenium Cation Stabilized by Hexaphenyl-Carbodiphosphorane: A Concise Study on the Molecular and Electronic Structure of [(Ph <sub>3</sub> P) <sub>2</sub> C <sub>6</sub> BF <sub>2</sub> ][BF <sub>4</sub> ]]. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 3852-3858	2.3	16

77	Configuration dependence of band-gap narrowing and localization in dilute GaAs <sub>1-x</sub> B <sub>x</sub> alloys. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	30
76	Hochgenaue Berechnung der Kohäsionsenergie von festem Argon mit Abweichungen im J/mol-Bereich. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12387-12392	3.6	3
75	Extent of hydrogen coverage of Si(001) under chemical vapor deposition conditions from ab initio approaches. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 204706	3.9	9
74	Interface morphology and composition of Ga(NAsP) quantum well structures for monolithically integrated LASERs on silicon substrates. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 075108	3	12
73	Molecular structure and vibrations of NTCDA monolayers on Ag(111) from density-functional theory and infrared absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 6316-28	3.6	23
72	Interfacial Properties and Growth Dynamics of Semiconductor Interfaces <b>2016</b> , 199-213		1
71	Growth, Structural and Electronic Properties of Functional Semiconductors Studied by First Principles <b>2016</b> , 145-162		
70	From small fullerenes to the graphene limit: A harmonic force-field method for fullerenes and a comparison to density functional calculations for Goldberg-Coxeter fullerenes up to C980. <i>Journal of Computational Chemistry</i> , <b>2016</b> , 37, 10-7	3.5	10
69	Electron-Vibron Coupling at Metal-Organic Interfaces from Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 1422-7	6.4	14
68	Efficient nitrogen incorporation in GaAs using novel metal organic AsN precursor di-tertiary-butyl-arsano-amine (DTBAA). <i>Journal of Crystal Growth</i> , <b>2016</b> , 439, 19-27	1.6	17
67	Pyramidal Structure Formation at the Interface between III/V Semiconductors and Silicon. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3265-3275	9.6	29
66	Towards J/mol Accuracy for the Cohesive Energy of Solid Argon. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12200-5	16.4	18
65	Lewis Acids as Activators in CBS-Catalysed Diels-Alder Reactions: Distortion Induced Lewis Acidity Enhancement of SnCl <sub>4</sub> . <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 13171-80	4.8	8
64	Adsorption geometry and interface states: Relaxed and compressed phases of NTCDA/Ag(111). <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	11
63	Advanced NMR Methods and DFT Calculations on the Regioselective Deprotonation and Functionalization of 1,1'-Methylenebis(3-methylimidazole-2-thione). <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 3756-3766	2.3	4
62	Hydrogen Elimination Mechanism in the Absence of Low-Lying Acceptor Orbitals in EH <sub>2</sub> (t-C <sub>4</sub> H <sub>9</sub> ) (E = N-Bi). <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 6363-72	5.1	14
61	Rhodium(I) and Iridium(I) Complexes of the Conformationally Rigid IBioxMe <sub>4</sub> Ligand: Computational and Experimental Studies of Unusually Tilted NHC Coordination Geometries. <i>Organometallics</i> , <b>2015</b> , 34, 5099-5112	3.8	29
60	A periodic energy decomposition analysis method for the investigation of chemical bonding in extended systems. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 194105	3.9	55

59	Gas phase chemical vapor deposition chemistry of triethylboron probed by boron–carbon thin film deposition and quantum chemical calculations. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10898-10906	7.1	22
58	Iridium Complexes of the Conformationally Rigid $\text{IBioxMe}_4$ Ligand: Hydride Complexes and Dehydrogenation of Cyclooctene. <i>Organometallics</i> , <b>2015</b> , 34, 4419-4427	3.8	12
57	A systematic study of rare gas atoms encapsulated in small fullerenes using dispersion corrected density functional theory. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 88-96	3.5	22
56	Inelastic decay of electrons in Shockley-type metal-organic interface states. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	20
55	A Quantum Chemical Descriptor for CVD Precursor Design: Predicting Decomposition Rates of TBP and TBAs Isomers and Derivatives. <i>Chemical Vapor Deposition</i> , <b>2015</b> , 21, 161-165		10
54	New palladium(II) complexes containing 3-mercaptop-1,2,4-triazole ligands: synthesis, characterization, crystal structure, and density functional theory calculations. <i>Monatshefte für Chemie</i> , <b>2015</b> , 146, 57-67	1.4	9
53	GaP/Si: Studying Semiconductor Growth Characteristics with Realistic Quantum-Chemical Models <b>2015</b> , 205-218		
52	Structure and properties of the nonface-spiral fullerenes $T\text{-C}_{60}\text{DECDEC}$ and $\text{DEC}_2$ and their halma and leapfrog transforms. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 121-30	6.1	8
51	A quantum chemical study on gas phase decomposition pathways of triethylgallane (TEG, $\text{Ga}(\text{C}_2\text{H}_5)_3$ ) and tert-butylphosphine (TBP, $\text{PH}_2(\text{t-C}_4\text{H}_9)$ ) under MOVPE conditions. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 17018-29	3.6	19
50	The dimeric nature of bonding in gallium: from small clusters to the gallium phase. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 24244-9	3.6	15
49	New bonding modes of carbon and heavier group 14 atoms Si-Pb. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 5106-39	58.5	179
48	Formation of an Organic/Metal Interface State from a Shockley Resonance. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 50-5	6.4	37
47	Donor-Acceptor Complexes of Main-Group Elements <b>2014</b> , 71-112		6
46	Complex surface chemistry of an otherwise inert solvent molecule: tetrahydrofuran on Si(001). <i>ChemPhysChem</i> , <b>2014</b> , 15, 3725-8	3.2	28
45	Quantitative investigation of bonding characteristics in ternary Zintl anions: charge and energy analysis of $[\text{Sn}_2\text{E}(15)(2)(\text{ZnPh})]^{(3-)}$ ( $\text{E}(15) = \text{Sb}, \text{Bi}$ ) and $[\text{Sn}_2\text{Sb}_5(\text{ZnPh})_2]^{(3-)}$ . <i>Journal of Computational Chemistry</i> , <b>2014</b> , 35, 1045-57	3.5	9
44	Synthesis and Characterization of the Silylated Hexaphenyl Carbodiphosphorane $[\text{Me}_3\text{SiC}(\text{PPh}_3)_2][\text{CF}_3\text{SO}_3]$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 417-422	1.3	9
43	Syntheses, Structures, and Electronic Properties of a New Series of Tellurides of the Type $[\text{Sequestered Cation}]_2(\text{Te}_x)$ ( $x = 1@$ ). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2013</b> , 639, 2809-2815	1.3	9
42	Carbodicarbenes <b>2013</b> , 216-236		2

41	From Molecules to Thin Films: GaP Nucleation on Si Substrates <b>2013</b> , 185-199	1
40	Carbodiphosphorane analogues E(PPh <sub>3</sub> ) <sub>2</sub> with E=C-Pb: a theoretical study with implications for ligand design. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 1772-80	4.8 60
39	Stability of gas-phase tartaric acid anions investigated by quantum chemistry, mass spectrometry, and infrared spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 4789-800	2.8 7
38	Understanding the regioselectivity in Scholl reactions for the synthesis of oligoarenes. <i>Chemical Communications</i> , <b>2012</b> , 48, 377-9	5.8 39
37	A DFT-D study of structural and energetic properties of TiO <sub>2</sub> modifications. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 424206	1.8 44
36	Vibrational Davydov Splittings and Collective Mode Polarizations in Oriented Organic Semiconductor Crystals. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 14491-14503	3.8 22
35	Theoretical investigations into the enantiomeric and racemic forms of (trifluoromethyl)lactic acid. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 811-7	3.6 15
34	N-Heterocyclic carbenes versus transition metals for stabilizing phosphinyl radicals. <i>Chemical Science</i> , <b>2011</b> , 2, 858	9.4 94
33	Synthesis of Highly Stable 1,3-Diaryl-1H-1,2,3-triazol-5-ylidenes and their Applications in Ruthenium-Catalyzed Olefin Metathesis. <i>Organometallics</i> , <b>2011</b> , 30, 2617-2627	3.8 159
32	Carbodicarbenes:Divalent carbon(0) compounds exhibiting carbon-carbon donor-acceptor bonds. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2011</b> , 1, 869-878	7.9 56
31	Packed to the rafters: filling up C <sub>60</sub> with rare gas atoms. <i>ChemPhysChem</i> , <b>2011</b> , 12, 2081-4	3.2 13
30	Reply to the Comment on Theoretical investigations into the enantiomeric and racemic forms of (trifluoromethyl)lactic acid by M. A. Suhm and M. Albrecht, Phys. Chem. Chem. Phys., 2011, 13, DOI: 10.1039/c0cp02455d. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 4161	3.6 4
29	Gallium Halides as Alternative Ligands to CO and N <sub>2</sub> in Transition Metal Complexes: A Bonding Analysis <i>Organometallics</i> , <b>2010</b> , 29, 5676-5680	3.8 20
28	P-Heterocyclic carbenes as effective catalysts for the activation of single and multiple bonds. A theoretical study. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 1760	3.6 11
27	Isolation of a Low-Coordinate Rhodium Phosphine Complex Formed by C=C Bond Activation of Biphenylene. <i>Organometallics</i> , <b>2010</b> , 29, 2710-2714	3.8 27
26	A systematic density functional and wavefunction-based study on dicarboxyl dianions D <sub>n</sub> C <sub>2</sub> R <sub>n</sub> O <sub>2</sub> with R = C <sub>2</sub> , C <sub>2</sub> X <sub>2</sub> , C <sub>2</sub> X <sub>4</sub> , and C <sub>6</sub> X <sub>4</sub> (X = H, F). <i>Theoretical Chemistry Accounts</i> , <b>2010</b> , 126, 129-138	1.9 1
25	Adsorption of proline and glycine on the TiO <sub>2</sub> (110) surface: a density functional theory study. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1053-61	3.2 51
24	Reaction of Double Ylide C(PPh <sub>3</sub> ) <sub>2</sub> with [W(CO) <sub>6</sub> ] Crystal Structures of [(CO) <sub>5</sub> W(CCPPh <sub>3</sub> )] and [(CO) <sub>5</sub> W{C <sub>2</sub> O <sub>2</sub> (PPh <sub>3</sub> ) <sub>2</sub> }]. and Bonding Analyses of [TM(CCPPh <sub>3</sub> )] Compounds. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 1872-1880	2.3 15

23	Carbodicarbenes and related divalent carbon(0) compounds. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 10160-70	4.8	118
22	Divalent carbon(0) compounds. <i>Pure and Applied Chemistry</i> , <b>2009</b> , 81, 597-614	2.1	183
21	Carbodiphosphorane C(PPh <sub>3</sub> ) <sub>2</sub> as a Single and Twofold Lewis Base with Boranes: Synthesis, Crystal Structures and Theoretical Studies on [H <sub>3</sub> B{C(PPh <sub>3</sub> ) <sub>2</sub> }] and [{(H)}H <sub>4</sub> B <sub>2</sub> ]{C(PPh <sub>3</sub> ) <sub>2</sub> }] <sup>+</sup> . <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 4507-4517	2.3	81
20	Tolman Electronic Parameters for Divalent Carbon(0) Compounds. <i>Organometallics</i> , <b>2009</b> , 28, 3901-3905	3.8	99
19	Are carbodiphosphoranes better ligands than N-heterocyclic carbenes for Grubb's catalysts?. <i>Chemical Communications</i> , <b>2008</b> , 1584-6	5.8	27
18	Molecular electrostatic potentials of divalent carbon(0) compounds. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 2298-301	3.6	46
17	Divalent carbon(0) chemistry, part 1: Parent compounds. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 3260-3273	4.8	331
16	Divalent carbon(0) chemistry, part 2: Protonation and complexes with main group and transition metal Lewis acids. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 3273-89	4.8	261
15	pi-Bonding in complexes of benzannulated biscarbenes, -germylenes, and -stannylenes: an experimental and theoretical study. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 10716-21	4.8	48
14	First and second proton affinities of carbon bases. <i>ChemPhysChem</i> , <b>2008</b> , 9, 1474-81	3.2	160
13	Reply to R <sup>é</sup> p <sup>li</sup> que: A New Concept for Bonding in Carbodiphosphoranes?. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 2986-2987	16.4	35
12	C(NHC) <sub>2</sub> : divalent carbon(0) compounds with N-heterocyclic carbene ligands-theoretical evidence for a class of molecules with promising chemical properties. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8695-8	16.4	319
11	Carbodiphosphoranes: The Chemistry of Divalent Carbon(0). <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 5263-5263	16.4	3
10	Reply to R <sup>é</sup> p <sup>li</sup> que: A New Concept for Bonding in Carbodiphosphoranes?. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 3044-3045	3.6	18
9	C(NHC) <sub>2</sub> : zweibindige Kohlenstoff(0)-Verbindungen mit N-heterocyclischen Carbenliganden – theoretische Belege f <sup>r</sup> eine Molek <sup>ü</sup> llklasse mit vielversprechenden Eigenschaften. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 8850-8853	3.6	167
8	(Ph <sub>4</sub> P) <sub>2</sub> [Be <sub>2</sub> F <sub>6</sub> ]·2CH <sub>3</sub> CN: Synthese, Schwingungsspektrum, Kristallstruktur und quantenchemische Rechnungen. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2007</b> , 633, 1183-1188	1.3	10
7	Bonding analysis of N-heterocyclic carbene tautomers and phosphine ligands in transition-metal complexes: a theoretical study. <i>Chemistry - an Asian Journal</i> , <b>2007</b> , 2, 1555-67	4.5	216
6	The ABCs of multiple bonding. <i>Science</i> , <b>2007</b> , 318, 746; author reply 746	33.3	3

## LIST OF PUBLICATIONS

5	Carbodiphosphoranes: the chemistry of divalent carbon(0). <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 8038-42	16.4	320
4	Carbodiphosphorane: die Chemie von zweibindigem Kohlenstoff(0). <i>Angewandte Chemie</i> , <b>2006</b> , 118, 8206-8211	3.6	152
3	Extension of the Lennard-Jones potential: Theoretical investigations into rare-gas clusters and crystal lattices of He, Ne, Ar, and Kr using many-body interaction expansions. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	103
2	Computational Chemistry <b>2006</b> , 245-256		
1	Experimental and theoretical studies of carbodiphosphorane-CX <sub>2</sub> adducts with unusual bonding situations: preparation, crystal structures, and bonding analyses of S <sub>2</sub> CC(PPh <sub>3</sub> ) <sub>2</sub> , O <sub>2</sub> CC(PPh <sub>3</sub> ) <sub>2</sub> , and [(CO) <sub>4</sub> MS <sub>2</sub> CC(PPh <sub>3</sub> ) <sub>2</sub> ] (M = Cr, Mo, W). <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 1263-74	5.1	86