

# Thomas MÃ¼ller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4429446/publications.pdf>

Version: 2024-02-01

114  
papers

4,547  
citations

76294

40  
h-index

118793

62  
g-index

128  
all docs

128  
docs citations

128  
times ranked

2230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen- and Fluorine-Bridged Disilyl Cations and Their Use in Catalytic C-F Activation. <i>Journal of the American Chemical Society</i> , 2006, 128, 9676-9682.	6.6	251
2	A New Synthesis of Triarylsilylium Ions and Their Application in Dihydrogen Activation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12636-12638.	7.2	156
3	Silylium Ions: From Elusive Reactive Intermediates to Potent Catalysts. <i>Chemical Reviews</i> , 2021, 121, 5889-5985.	23.0	140
4	Silyl Cation Mediated Conversion of CO <sub>2</sub> into Benzoic Acid, Formic Acid, and Methanol. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2981-2984.	7.2	134
5	The Dianion of Tetraphenylgermole is Aromatic. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1002-1004.	4.4	125
6	Cations of Group 14 Organometallics. <i>Advances in Organometallic Chemistry</i> , 2005, 53, 155-215.	0.5	122
7	The Search for an Isolable Silyl Cation Must Continue. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1471-1473.	4.4	97
8	The X-ray Structure of a Vinyl Cation. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1543-1546.	7.2	97
9	Quantitative Assessment of the Lewis Acidity of Silylium Ions. <i>Organometallics</i> , 2015, 34, 4952-4958.	1.1	94
10	A Stable Heterocyclic Amino(phosphanylidene) <sup>4+</sup> phosphorane) Germylene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4753-4758.	7.2	91
11	Silylium Ion/Phosphane Lewis Pairs. <i>Organometallics</i> , 2013, 32, 6736-6744.	1.1	90
12	Synthesis of Silylium and Germylium Ions by a Substituent Exchange Reaction. <i>Organometallics</i> , 2013, 32, 4713-4722.	1.1	84
13	Chemistry of the Aromatic 9-Germafluorenyl Dianion and Some Related Silicon and Carbon Species. <i>Journal of the American Chemical Society</i> , 2002, 124, 12174-12181.	6.6	81
14	Unusually Stable Vinyl Cations. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3074-3077.	7.2	79
15	Dihydrogen Activation by a Silylium Silylene Frustrated Lewis Pair and the Unexpected Isomerization Reaction of a Protonated Silylene. <i>Chemistry - A European Journal</i> , 2014, 20, 9381-9386.	1.7	79
16	Dispersion Energy Enforced Dimerization of a Cyclic Disilylated Plumbylene. <i>Journal of the American Chemical Society</i> , 2012, 134, 6409-6415.	6.6	77
17	A Cyclic Disilylated Stannylene: Synthesis, Dimerization, and Adduct Formation. <i>Journal of the American Chemical Society</i> , 2011, 133, 5632-5635.	6.6	72
18	Coordination Chemistry of Cyclic Disilylated Stannylenes and Plumblyenes to Group 4 Metallocenes. <i>Journal of the American Chemical Society</i> , 2012, 134, 10864-10875.	6.6	72

#	ARTICLE	IF	CITATIONS
19	A Solid-State NMR and Theoretical Study of the Chemical Bonding in Disilenes. <i>Journal of the American Chemical Society</i> , 1997, 119, 4972-4976.	6.6	71
20	Bis[bis(trimethylsilyl)amino]silylene, an Unstable Divalent Silicon Compound. <i>Journal of the American Chemical Society</i> , 2003, 125, 8114-8115.	6.6	66
21	A Silyl Cation with a Three-Center Si-H-Si Bond. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3033-3036.	7.2	65
22	The 2-Silanorbornyl Cation: An Internally Stabilized Silyl Cation. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 626-628.	4.4	63
23	Computational Evidence for a Free Silylium Ion. <i>Organometallics</i> , 1998, 17, 278-280.	1.1	63
24	Exceptionally Long C-C Single Bonds in Diamino-carborane as Induced by Negative Hyperconjugation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1397-1401.	7.2	62
25	N-Heterocyclic Germylene/B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> Adducts: A Lewis Pair with Multi-reactive Sites. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1365-1370.	7.2	61
26	Norbornyl Cations of Group 14 Elements. <i>Journal of the American Chemical Society</i> , 2003, 125, 2158-2168.	6.6	60
27	Dibenzosilanorbornadienyl Cations and Their Fragmentation into Silyliumylidenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 10353-10361.	6.6	60
28	A catalytic C-C bond-forming reaction between aliphatic fluorohydrocarbons and arylsilanes. <i>Applied Organometallic Chemistry</i> , 2010, 24, 533-537.	1.7	59
29	Evidence for a Single Electron Shift in a Lewis Acid-Base Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 15419-15424.	6.6	53
30	Hafnocene-based Bicyclo[2.1.1]hexene Germylenes: Formation, Reactivity, and Structural Flexibility. <i>Journal of the American Chemical Society</i> , 2018, 140, 3052-3060.	6.6	52
31	Single-Electron Transfer Reactions in Frustrated and Conventional Silylium Ion/Phosphane Lewis Pairs. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15267-15271.	7.2	52
32	f-Delocalization versus f-Resonance in f-Aryl-Substituted Vinyl Cations. <i>Journal of the American Chemical Society</i> , 2005, 127, 10852-10860.	6.6	51
33	A Stable Heterocyclic Amino(phosphanylidene)phosphorane Germylene. <i>Angewandte Chemie</i> , 2016, 128, 4831-4836.	1.6	51
34	Coordination Chemistry of Disilylated Germylenes with Group 4 Metallocenes. <i>Organometallics</i> , 2013, 32, 3300-3308.	1.1	50
35	Persistent Bissilylated Arenium Ions. <i>Chemistry - A European Journal</i> , 2002, 8, 1163.	1.7	49
36	Activation of 7-Silanorbornadienes by N-Heterocyclic Carbenes: A Selective Way to N-Heterocyclic-Carbene-Stabilized Silylenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 6061-6067.	6.6	48

#	ARTICLE	IF	CITATIONS
37	A Germylene Stabilized by Homoconjugation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15899-15904.	7.2	47
38	A Stable Silylene with a $\sigma$ -Butadiene Ligand. <i>Journal of the American Chemical Society</i> , 2017, 139, 7117-7123.	6.6	44
39	A Bis(silaselenone) with Two Donor-Stabilized Si $\sigma$ /Se Bonds from an Unexpected Stereoconvergent Hydrolysis of a Diselenadisiletane. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4069-4072.	7.2	39
40	Coordination Chemistry of Disilylated Stannylenes with Group 10 d $^{10}$ Transition Metals: Silastannene vs Stannylene Complexation. <i>Journal of the American Chemical Society</i> , 2013, 135, 7949-7959.	6.6	39
41	Silyl Chalconium Ions: Synthesis, Structure and Application in Hydrodefluorination Reactions. <i>Chemistry - A European Journal</i> , 2017, 23, 10068-10079.	1.7	39
42	The Elusive 7-Silanorbornadien-7-ylum: Synthesis and Characterization of Nitrilium and Oxonium Ions Deriving from 2,3-Benzo-7-silanorbornadien-7-ylum. <i>Organometallics</i> , 2001, 20, 4584-4592.	1.1	38
43	The chemical shift tensor of silylenes. <i>Journal of Organometallic Chemistry</i> , 2003, 686, 251-256.	0.8	38
44	Shuttling Germanium Atoms into Branched Polysilanes. <i>Journal of the American Chemical Society</i> , 2009, 131, 5022-5023.	6.6	38
45	Cyclic Disilylated and Digermylated Germylenes. <i>Organometallics</i> , 2013, 32, 3404-3410.	1.1	38
46	A Neutral $\sigma$ -Aminoborole Complex of Germanium(II). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13319-13324.	7.2	38
47	Basic Reactivity Pattern of a Cyclic Disilylated Germylene. <i>Organometallics</i> , 2016, 35, 2728-2737.	1.1	36
48	Hydrogen-Bridged Digermyl and Germylsilyl Cations. <i>Organometallics</i> , 2014, 33, 1492-1498.	1.1	35
49	Trialkylsilyl-Substituted Silole and Germole Dianions as Precursors for Unusual Silicon and Germanium Compounds. <i>Accounts of Chemical Research</i> , 2020, 53, 532-543.	7.6	35
50	Electrochemistry and Computations of Stable Silylenes and Germylenes#. <i>Organometallics</i> , 2004, 23, 5689-5693.	1.1	34
51	Trialkylsilyl-Substituted Silole and Germole Dianions. <i>Organometallics</i> , 2018, 37, 4736-4743.	1.1	34
52	Formation and Properties of a Bicyclic Silylated Digermene. <i>Chemistry - A European Journal</i> , 2014, 20, 9357-9366.	1.7	31
53	Das Dianion von Tetraphenylgermol ist aromatisch. <i>Angewandte Chemie</i> , 1996, 108, 1095-1097.	1.6	29
54	Molecular Structure of a Cyclopropyl Substituted Vinyl Cation. <i>Journal of the American Chemical Society</i> , 2008, 130, 14956-14957.	6.6	29

#	ARTICLE	IF	CITATIONS
55	Dihydrogen Splitting Using Dialkylsilylene-Based Frustrated Lewis Pairs. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1204-1207.	1.7	29
56	Preparation of a Silanone through Oxygen Atom Transfer to a Stable Cyclic Silylene. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12404-12409.	7.2	27
57	A Dimeric $\text{Ti}^{\text{I}}\text{Ge}^{\text{I}}\text{Ti}^{\text{V}}\text{Ge}^{\text{V}}$ Germole Dianion Bridged Titanium(III) Complex with a Multicenter $\text{Ti}^{\text{I}}\text{Ge}^{\text{I}}\text{Ge}^{\text{I}}\text{Ti}^{\text{I}}$ Bond. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8634-8638.	7.2	27
58	An Experimental Acidity Scale for Intramolecularly Stabilized Silyl Lewis Acids. <i>Chemistry - A European Journal</i> , 2019, 25, 15123-15130.	1.7	27
59	Dispersion-Energy-Driven Wagner-Meerwein Rearrangements in Oligosilanes. <i>Journal of the American Chemical Society</i> , 2016, 138, 6886-6892.	6.6	26
60	A One-Step Germole to Silole Transformation and a Stable Isomer of a Disilabenzene. <i>Chemistry - A European Journal</i> , 2018, 24, 848-854.	1.7	26
61	Chiral Memory in Silyl-Pyridinium and Quinolinium Cations. <i>Journal of the American Chemical Society</i> , 2020, 142, 564-572.	6.6	25
62	Silylium Ions. <i>Structure and Bonding</i> , 2013, , 107-162.	1.0	24
63	Cationic $\text{Si}^{\text{H}}\text{H}^{\text{H}}\text{Si}$ Bridges in Polysilanes: Their Detection and Targeted Formation in Stable Ion Studies. <i>Chemistry - A European Journal</i> , 2016, 22, 7970-7977.	1.7	24
64	Theoretical prediction of vertical transition energies of diaminosilylenes and aminosubstituted disilenes. <i>Journal of Computational Chemistry</i> , 2001, 22, 1536-1541.	1.5	23
65	Silaimidazolium and silaimidazolidinium ions. <i>Dalton Transactions</i> , 2010, 39, 9296.	1.6	23
66	Structure and Bonding in Bissilylated Arenium Ions. <i>Organometallics</i> , 2007, 26, 3524-3529.	1.1	22
67	Einelektronen- $\frac{1}{4}$ bertragungsreaktionen in frustrierten und klassischen Silyliumion/Phosphan-Lewis-Paaren. <i>Angewandte Chemie</i> , 2018, 130, 15487-15492.	1.6	22
68	A metal-free catalytic intramolecular hydrosilylation. <i>Canadian Journal of Chemistry</i> , 2003, 81, 1223-1227.	0.6	21
69	Unusual Reaction of 1,1-Dithio-2,3,4,5-tetraphenylsilole with 1,3-Dienes Yielding Spirosilanes and Elemental Lithium. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2578-2581.	7.2	20
70	Chromium point defects in hexagonal $\text{BaTiO}_3$ . A comparative study of first-principles calculations and experiments. <i>Physical Review B</i> , 2015, 91, .		
71	Wagner-Meerwein-Type Rearrangements of Gernapolsilanes - A Stable Ion Study. <i>Organometallics</i> , 2015, 34, 3756-3763.	1.1	17
72	Alkyne Addition and Insertion Reactions of $[(\text{Me}_3\text{Si})_3\text{Si}]_2\text{Ge} \dots \text{PMe}_3$ . <i>Chemistry - A European Journal</i> , 2016, 22, 18512-18521.	1.7	17

#	ARTICLE	IF	CITATIONS
73	The Nature of Protonated Decamethylsilicocene, (Me <sub>5</sub> C <sub>5</sub> ) <sub>2</sub> Si+H. <i>Organometallics</i> , 2001, 20, 5619-5628.	1.1	16
74	The Silicon Version of Phosphine Chalcogenides: Synthesis and Bonding Analysis of Stabilized Heavy Silaldehydes. <i>Inorganic Chemistry</i> , 2016, 55, 9026-9032.	1.9	16
75	Exceptionally Long C-C Single Bonds in Diamino-carborane as Induced by Negative Hyperconjugation. <i>Angewandte Chemie</i> , 2018, 131, 1411.	1.6	16
76	Ein neutraler 5-Aminoborol- Germanium(II)-Komplex. <i>Angewandte Chemie</i> , 2018, 130, 13503-13508.	1.6	16
77	Potassium Salts of 2,5-Bis(trimethylsilyl)-germolide: Switching between Aromatic and Non-Aromatic States. <i>Chemistry - A European Journal</i> , 2019, 25, 10858-10865.	1.7	16
78	Trisilyl-Substituted Vinyl Cations. <i>Chemistry - A European Journal</i> , 2009, 15, 8414-8423.	1.7	15
79	Study of charged defects for substitutionally doped chromium in hexagonal barium titanate from first-principles theory. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 527-531.	1.2	15
80	A Germylene Stabilized by Homoconjugation. <i>Angewandte Chemie</i> , 2016, 128, 16131-16136.	1.6	15
81	Chiral Chalcogenyl-Substituted Naphthyl- and Acenaphthyl-Silanes and Their Cations. <i>Chemistry - A European Journal</i> , 2020, 26, 16441-16449.	1.7	14
82	Cation-Triggered Stannate(II)/Stannylene/Stannylene Conversion. <i>Chemistry - A European Journal</i> , 2018, 24, 5967-5973.	1.7	13
83	A Germacalicyclicene: Synthesis, Structure, and Reactivity. <i>Chemistry - A European Journal</i> , 2019, 25, 1098-1105.	1.7	13
84	Electrochemical-Induced Ring Transformation of Cyclic ortho-(2-oxoesters). <i>Chemistry - A European Journal</i> , 2020, 26, 3222-3225.	1.7	12
85	A germaaluminocene. <i>Chemical Science</i> , 2020, 11, 2982-2986.	3.7	12
86	Silylene and Germylene Intermediates in the Reactions of Silole and Germole Dianions with <i>N</i> , <i>N</i> -Di-tert-butylethylenediimine. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2344-2349.	1.0	11
87	Hyperconjugation in silyl substituted vinyl cations – indications from IR spectroscopy. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 1043-1048.	0.9	11
88	Cyclic Silylated Onium Ions of Group 15 Elements. <i>Inorganic Chemistry</i> , 2015, 54, 2393-2402.	1.9	11
89	Radicals and Anions of Siloles and Germoles. <i>Chemistry - A European Journal</i> , 2021, 27, 12063-12068.	1.7	11
90	A Model System for the Generation of Silyl Cationic Species of Different Reactivity and Stability. , 0, , 34-44.		10

#	ARTICLE	IF	CITATIONS
91	Electrochemistry and MO Computations of Saturated and Unsaturated N-Heterocyclic Silylenes. <i>Organometallics</i> , 2010, 29, 1603-1606.	1.1	9
92	Reactivity of a Bicyclo[2.1.1]hexene Germylene towards Elemental Chalcogens. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1041-1046.	0.6	8
93	A Dimeric $\mu_2$ - $\mu_5$ -germole Dianion Bridged Titanium(III) Complex with a Multicenter $\text{Ti}^{\mu_2}\text{Ge}^{\mu_5}\text{Ti}$ Bond. <i>Angewandte Chemie</i> , 2018, 130, 8770-8774.	1.6	8
94	The Combination of Cross-Hyperconjugation and $\sigma$ -Conjugation in 2,5-Oligosilyl Substituted Siloles. <i>Chemistry - A European Journal</i> , 2020, 26, 17252-17260.	1.7	8
95	Three-membered cyclic digermynes stabilised by an N-heterocyclic carbene. <i>Chemical Science</i> , 2021, 12, 6287-6292.	3.7	8
96	$^{29}\text{Si}$ NMR Chemical Shift Tensor and Electronic Structure of 7-Silanorbornadienes. <i>Silicon</i> , 2010, 2, 217-227.	1.8	7
97	Spirocyclic germanes <i>via</i> transannular insertion reactions of vinyl germynes into $\text{Si}^{\mu_2}\text{Si}$ bonds. <i>Dalton Transactions</i> , 2018, 47, 5985-5996.	1.6	7
98	Intramolecular Halo Stabilization of Silyl Cations: Silylated Halonium and Bis-Halo Substituted Siliconium Borates. <i>Chemistry - A European Journal</i> , 2021, 27, 3496-3503.	1.7	7
99	Unusually Stable Vinyl Cations. <i>ACS Symposium Series</i> , 2007, , 51-67.	0.5	4
100	On the Origin of the Non-planarity in Biarylsilyloxonium Ions. <i>Chemistry - A European Journal</i> , 2021, 27, 15496-15500.	1.7	4
101	Reductive Elimination at Pb(II) Center of an (Amino)plumbylene-Substituted Phosphaketene: New Pathway for Phosphinidene Synthesis. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	4
102	A Molecular Hexacoordinated Triorganoaluminum Compound with Trifold $\text{Si}^{\mu_2}\text{H}^{\mu_2}\text{Al}$ Coordination. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2543-2548.	0.6	3
103	Norbornene based-sulfide-stabilized silylium ions: synthesis, structure and application in catalysis. <i>Dalton Transactions</i> , 2022, 51, 1407-1414.	1.6	3
104	A phenyl-substituted germole dianion and its reaction with hafnocene dichloride. <i>Mendeleev Communications</i> , 2022, 32, 46-48.	0.6	3
105	Hydrogen-Bridged Oligosilylsilyl Mono- and Oligosilylsilyl Dications. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
106	Potassium Salts of 2,5-Bis(trimethylsilyl)-germolide: Switching between Aromatic and Non-Aromatic States. <i>Chemistry - A European Journal</i> , 2019, 25, 10767-10767.	1.7	2
107	NH bond activation of ammonia and amines by ditetrelenes: key insights into the stereochemistry of nucleophilic addition. <i>Dalton Transactions</i> , 2021, 50, 17734-17750.	1.6	2
108	$\text{Si}^{\mu_2}\text{H}^{\mu_2}\text{Se}$ Chalcogen-Hydride Bond Quantified by Diffraction and Topological Analyses. <i>Inorganic Chemistry</i> , 2022, , .	1.9	2

#	ARTICLE	IF	CITATIONS
109	Silyl Chalconium Ions: Synthesis, Structure and Application in Hydrodefluorination Reactions. Chemistry - A European Journal, 2017, 23, 9973-9973.	1.7	1
110	Exceptionally Long C-C Single Bonds in Diamino-carborane as Induced by Negative Hyperconjugation. Angewandte Chemie, 2018, 131, 1234.	1.6	1
111	Covalent triflates as synthons for silolyl- and germolyl cations. Dalton Transactions, 2022, 51, 9836-9842.	1.6	1
112	Radicals and Anions of Siloles and Germoles. Chemistry - A European Journal, 2021, 27, 12011-12011.	1.7	0
113	Silole allylic anions instead of silanides. Dalton Transactions, 2021, 50, 16945-16949.	1.6	0
114	The influence of ring strain on the formation of Si-H-Si stabilised oligosilanylsilyl cations. Dalton Transactions, 2021, 50, 16509-16513.	1.6	0