

Volker Huch

List of Publications by Year in descending order

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101
papers

2,230
citations

236925

25
h-index

276875

41
g-index

110
all docs

110
docs citations

110
times ranked

1710
citing authors

#	ARTICLE	IF	CITATIONS
1	Title is missing!. Journal of Sol-Gel Science and Technology, 2000, 17, 145-158.	2.4	178
2	Single-Source Sol-Gel Synthesis of Nanocrystalline $ZnAl_2O_4$: Structural and Optical Properties. Journal of the American Ceramic Society, 2001, 84, 1921-1928.	3.8	178
3	Equilibrium between a cyclotrisilene and an isolable base adduct of a disilyl silylene. Nature Chemistry, 2013, 5, 876-879.	13.6	111
4	$Si_8(Si^tBu_3)_6$: A Hitherto Unknown Cluster Structure in Silicon Chemistry. Angewandte Chemie - International Edition, 2005, 44, 7884-7887.	13.8	86
5	Reductive Cleavage of Carbon Monoxide by a Disilene. Angewandte Chemie - International Edition, 2015, 54, 8746-8750.	13.8	68
6	From Disilene ($Si_2^{3/4}Si$) to Phosphasilene ($Si_2^{3/4}P$) and Phosphacumulene ($P_2^{3/4}C_2^{3/4}N$). Angewandte Chemie - International Edition, 2014, 53, 2216-2220.	13.8	59
7	Isolation and Versatile Derivatization of an Unsaturated Anionic Silicon Cluster (Siliconoid). Angewandte Chemie - International Edition, 2016, 55, 2907-2910.	13.8	56
8	Disubstituted and Global Minimum Isomers of Heavier 1,4-Dimetallatetrasilabenzenes of Group...14. Angewandte Chemie - International Edition, 2014, 53, 3514-3518.	13.8	49
9	Carbonylation of Cyclotrisilenes. Angewandte Chemie - International Edition, 2013, 52, 13247-13250.	13.8	46
10	Synthesis of a $NdAlO_3/Al_2O_3$ Ceramic-Ceramic Composite by Single-Source Precursor CVD. Chemistry of Materials, 2000, 12, 271-274.	6.7	42
11	Synthesis and Single-Crystal X-ray Diffraction Studies on New Methylindium(III) Alkoxides. European Journal of Inorganic Chemistry, 1999, 1999, 1343-1350.	2.0	41
12	Functionalized Cyclic Disilenes via Ring Expansion of Cyclotrisilenes with Isocyanides. Organometallics, 2013, 32, 1591-1594.	2.3	41
13	Potential Protecting Group Strategy for Disila Analogues of Vinylolithiums: Synthesis and Reactivity of a 2,4,6-Trimethoxyphenyl-Substituted Disilene. Organometallics, 2013, 32, 6844-6850.	2.3	38
14	Boron and Phosphorus Containing Heterosiliconoids: Stable p- and n-Doped Unsaturated Silicon Clusters. Journal of the American Chemical Society, 2019, 141, 19498-19504.	13.7	37
15	Site-selective functionalization of Si_6R_6 siliconoids. Chemical Science, 2019, 10, 4523-4530.	7.4	34
16	Equilibrium Formation of Stable All-Silicon Versions of 1,3-Cyclobutanediyl. Angewandte Chemie - International Edition, 2020, 59, 15087-15092.	13.8	34
17	Isolierung und vielseitige Derivatisierung eines ungesättigten anionischen Siliciumclusters (Silicoid). Angewandte Chemie, 2016, 128, 2959-2963.	2.0	33
18	Donor-Acceptor Adducts of a 1,3-Disila-2-oxoallyl Zwitterion. Chemistry - A European Journal, 2014, 20, 9221-9224.	3.3	32

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19	Atomically Precise Expansion of Unsaturated Silicon Clusters. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5124-5128.	13.8	30
20	A Molecular Complex with a Formally Neutral Iron Germanide Motif (Fe ₂ Ge ₂). <i>Organometallics</i> , 2015, 34, 2130-2133.	2.3	28
21	Sorazolons, Carbazole Alkaloids from <i>Sorangium cellulosum</i> Strain Soce375. <i>Journal of Natural Products</i> , 2016, 79, 369-375.	3.0	28
22	Isolation and Reactivity of a Digerma Analogue of Vinylolithiums: a Lithium Digermenide. <i>Organometallics</i> , 2018, 37, 632-635.	2.3	28
23	Dimerization of a marginally stable disilyl germylene to tricyclic systems: evidence for reversible NHC-coordination. <i>Chemical Communications</i> , 2016, 52, 2799-2802.	4.1	27
24	Diverse Reactivity of an Electrophilic Phospha-silene towards Anionic Nucleophiles: Substitution or Metal-Amino Exchange. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10913-10917.	13.8	26
25	Reactivity enhancement of a diphosphene by reversible N-heterocyclic carbene coordination. <i>Chemical Science</i> , 2018, 9, 4235-4243.	7.4	26
26	Synthesis and biological evaluation of novel myrtucommulones and structural analogues that target mPGES-1 and 5-lipoxygenase. <i>European Journal of Medicinal Chemistry</i> , 2015, 101, 133-149.	5.5	25
27	Exohedral functionalization vs. core expansion of siliconoids with Group 9 metals: catalytic activity in alkene isomerization. <i>Chemical Science</i> , 2020, 11, 7782-7788.	7.4	25
28	Disilyl Silylene Reactivity of a Cyclotrisilene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2445-2449.	13.8	24
29	Synthesis, Structure, and Bonding Analysis of Tin(II) Dihalide and Cyclopentadienyltin(II) Halide (Alkyl)(amino)carbene Complexes. <i>Organometallics</i> , 2019, 38, 1052-1061.	2.3	23
30	A Three-Membered Cyclic Phospha-silene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1939-1944.	13.8	23
31	An anionic heterosiliconoid with two germanium vertices. <i>Chemical Communications</i> , 2019, 55, 10100-10103.	4.1	22
32	Stereoisomeric Composition of Natural Myrtucommulone A. <i>Journal of Natural Products</i> , 2015, 78, 2381-2389.	3.0	21
33	Metathesis of Ge=Ge double bonds. <i>Nature Chemistry</i> , 2021, 13, 373-377.	13.6	21
34	Carbene Complexes of Stannocenes. <i>Inorganic Chemistry</i> , 2018, 57, 8050-8053.	4.0	18
35	Indirect and Direct Grafting of Transition Metals to Siliconoids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8532-8536.	13.8	18
36	Regiodiscriminating Reactivity of Isolable NHC-Coordinated Disilyl Germylene and Its Cyclic Isomer. <i>Journal of the American Chemical Society</i> , 2016, 138, 13996-14005.	13.7	17

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37	Magnesocenophaneâ€Catalyzed Amine Borane Dehydrocoupling. <i>Chemistry - A European Journal</i> , 2020, 26, 6176-6184.	3.3	17
38	Synthesis, Structure, and Reactivity of Iodo-Functionalized Heterobimetallic Alkoxides of Tin(IV): X-ray Crystal Structures of [I ₂ Sn{Al(OPri) ₄ } ₂], [I ₂ Sn{Ti(OPri) ₅ } ₂], [I ₃ Sn{Zr(OPri) ₅ (PriOH)}], and [I ₂ Sn{Mo(C ₅ H ₅)(CO) ₃ } ₂]. <i>Organometallics</i> , 1998, 17, 1044-1051.	2.3	16
39	Synthesis, solid-state molecular structure and solution dynamics of new alkoxy stannylenes-transition metal complexes. <i>New Journal of Chemistry</i> , 2005, 29, 154.	2.8	16
40	A Mixed Heavier Si=Ge Analogue of a Vinyl Anion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 242-246.	13.8	16
41	Homo- and Heterometallic Terbium Alkoxides - Synthesis, Characterization and Conversion to Luminescent Oxide Nanostructures. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2148-2157.	2.0	15
42	Isolation, Structure Elucidation, Biosynthesis, and Synthesis of Antalid, a Secondary Metabolite from <i>Polyangium</i> species. <i>Organic Letters</i> , 2016, 18, 2560-2563.	4.6	15
43	Persistent Digermenes with Acyl and Î±-Chlorosilyl Functionalities. <i>Chemistry - A European Journal</i> , 2019, 25, 12187-12195.	3.3	15
44	Hydroxometalates from Anion Exchange Reactions of [BF ₄] ⁻ based Ionic [Zr(OH) ₅] ⁺ . <i>Chemistry of Materials</i> , 2010, 22, 6518-6523.	6.7	14
45	Templating Influence of Molecular Precursors on Pr(OH) ₃ Nanostructures. <i>Inorganic Chemistry</i> , 2015, 54, 6267-6280.	4.0	14
46	Synthesis, Crystal Structure and Physicochemical Studies of Neodymium and Erbium Methoxides Containing Thienyl Substituents. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 879-889.	2.0	13
47	Vielseitige ReaktivitÄt eines elektrophilen Phosphasilens gegen¼ber anionischen Nukleophilen: Substitution oder Metallâ€Austausch. <i>Angewandte Chemie</i> , 2016, 128, 11074-11078.	2.0	13
48	Mono- and Dicoordinate Germanium(0) as a Four-Electron Donor. <i>Chemistry - A European Journal</i> , 2018, 24, 2873-2878.	3.3	12
49	Equilibrium Coordination of NHCs to Si(IV) Species and Donor Exchange in Donor-Acceptor Stabilized Si(II) and Ge(II) Compounds. <i>Inorganic Chemistry</i> , 2019, 58, 4071-4075.	4.0	12
50	Free Radical Chemistry of Phosphasilenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16007-16012.	13.8	12
51	Monofluorination and Trifluoromethylation of BODIPY Dyes for Prolonged Single-Molecule Detection. <i>ChemPhysChem</i> , 2016, 17, 433-442.	2.1	11
52	Coordination chemistry of furfurylsilylamides. <i>Dalton Transactions RSC</i> , 2002, , 4709-4713.	2.3	10
53	Structural and Spectroscopic Properties of Aryl Substituted Aminoboranes as Model Compounds and Synthons for B/C/N Materials and New Fluorescent Systems. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 2112-2119.	1.2	10
54	A carbanion induced ring switching synthesis of spiranes: an unprecedented approach. <i>RSC Advances</i> , 2012, 2, 9091.	3.6	10

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55	Lewis base complexes of sila[2]aluminocenophanes. Dalton Transactions, 2018, 47, 10425-10428.	3.3	10
56	Erweiterung ungesättigter Siliciumcluster mit atomarer Genauigkeit. Angewandte Chemie, 2019, 131, 5178-5182.	2.0	10
57	Chalcogen-Expanded Unsaturated Silicon Clusters: Thia-, Selen-, and Tellurasiliconoids. Chemistry - A European Journal, 2020, 26, 16599-16602.	3.3	10
58	Diphosphanylmetalloenes of Main-Group Elements. Chemistry - A European Journal, 2021, 27, 6500-6510.	3.3	10
59	Nickel-assisted complete cleavage of CO by a silylene/siliconoid hybrid under formation of an Si-C enol ether bridge. Chemical Communications, 2020, 56, 10898-10901.	4.1	10
60	Selective Blocking of Coordination Modes in 1,3,5-Triamino-1,3,5-trideoxy-cis-inositol: Enforced Formation of a Low-Spin Iron(III) Hexamine Complex. Inorganic Chemistry, 1997, 36, 4121-4127.	4.0	9
61	Reactivity of the Unusually Structured Silicon Cluster Compound Si ₈ (Si ^t Bu ₃) ₆ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 2425-2430.	1.2	9
62	Synthesis and Crystal Structure Investigations of Trivalent Rare Earth (Y ³⁺ , Nd ³⁺ , Er ³⁺) Thienyl-Substituted Methoxides. European Journal of Inorganic Chemistry, 2008, 2008, 2397-2406.	2.0	9
63	Tetra- and Pentaisopropylcyclopentadienyl Complexes of Group 15 Elements. Organometallics, 2021, 40, 618-626.	2.3	9
64	Synthesis and Hydrogen-Bond Patterns of Aryl-Group Substituted Silanediols and Triols from Alkoxy- and Chlorosilanes. Chemistry - A European Journal, 2021, 27, 16461-16476.	3.3	9
65	Siliconoid Expansion by a Single Germanium Atom through Isolated Intermediates. Angewandte Chemie - International Edition, 2022, , .	13.8	9
66	Mit N-Methylpiperidin stabilisierte Halogenalane. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 312-318.	1.2	8
67	[Al ₂ (OH) ₈] ₂ -Building Blocks Incorporated in Macromolecular Alumopolysiloxane Rings of the Type [O-SiPh ₂ -O-SiPh ₂ -O-Al] _n . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 863-867.	1.2	8
68	Synthesis, Structure, and Reactivity of Disiloxa[3]tetrelocenophanes. ACS Omega, 2019, 4, 18355-18360.	3.5	8
69	<sc>Aryl-group</sc> substituted polysiloxanes with high optical transmission, thermal stability, and refractive index. Journal of Polymer Science, 2021, 59, 2265-2283.	3.8	7
70	Ring Opening of Thiophene: Synthesis and Crystal Structure of Bis(diethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 152 Td (ether)bis(1/4-1640-1644.	1.6	6
71	Modification of the Hydrogen Bonds Network in a Hydroxyl Functionalized Dithiolene Ligand by HgX ₂ Complexation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1959-1963.	1.2	6
72	Structural Aspects of Chlorine-Aluminium Alkoxides. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 923-929.	1.2	6

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73	New Yttrium and Europium(+3) Alkoxides Bearing Thiophene Units: Syntheses, Crystal Structure Determinations and Physico-Chemical Properties. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1218-1228.	2.0	6
74	Disilenylysilylen- σ -Reaktivitat eines Cyclotrisilens. <i>Angewandte Chemie</i> , 2018, 130, 2470-2474.	2.0	6
75	Reactivity of a Peraryl Cyclotrisilene ($\text{C}_3\text{Si}_3\text{R}_4$) Toward Chalcogens. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 999-1005.	1.2	6
76	Bildung Stabiler All-Silicium Varianten von 1,3-Cyclobutandiyl im Gleichgewicht. <i>Angewandte Chemie</i> , 2020, 132, 15199-15204.	2.0	6
77	Ein gemischtes, schwereres Si=Ge Analogon eines Vinylanions. <i>Angewandte Chemie</i> , 2021, 133, 246-250.	2.0	6
78	Influence of the Solvent on the Formation of New Tin(II) Methoxides Containing Thienyl Substituents: Crystal Structure and NMR Investigations. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 942-948.	1.2	5
79	New Molecular Aluminum Chloride Amides $[\text{Cl}_2\text{AlNEt}_2]_2$ and $[\text{HClAlNEt}_2]_2$ and their Boranate Analogues $[(\text{BH}_4)_2\text{AlNEt}_2]_2$ and $[\text{H}(\text{BH}_4)\text{AlNEt}_2]_2$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 284-288.	1.2	5
80	Imidazolium Cyclopentadienide Salts and their Use as Cp-Transfer Reagents. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1941-1944.	2.0	5
81	Indirekte und direkte Anknupfung von ubergangsmetallen an Silicoide. <i>Angewandte Chemie</i> , 2020, 132, 8610-8614.	2.0	5
82	Unusual Sandwiching of the Cyclopentadienyl Anion in $[\text{K}_4(\text{C}_5\text{H}_5)_2\text{M}_2(\text{O}i\text{Bu})_6(\text{CH}_3\text{OCH}_2\text{CH}_2\text{OCH}_3)_2]_n$ (M = Ge, Sn). <i>Inorganic Chemistry</i> , 1999, 38, 5461-5463.	4.0	4
83	Reaktionen des Alumopolysiloxans $(\text{Ph}_2\text{SiO})_8[\text{AlO}(\text{OH})]_4$ mit 4,4'-Bipyridin und Azobipyridinen. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 1922-1930.	1.2	4
84	Neue molekulare Indium-Zinn-Sauerstoff- und Indium-Zinn-Natrium-Sauerstoff-Chlor-Cluster. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 1482-1485.	1.2	4
85	Five new complexes with deferiprone and N,N-donor ligands: evaluation of cytotoxicity against breast cancer MCF-7 cell line and HSA-binding determination. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 4845-4858.	3.5	4
86	Molecular enneanuclear Cu^{II} phosphates containing planar hexanuclear and trinuclear sub-units: syntheses, structures, and magnetism. <i>Dalton Transactions</i> , 2020, 49, 2527-2536.	3.3	4
87	Diaryl-pnictogenyldialkylalanes' Synthesis, Structures, Bonding Analysis, and CO_2 Capture. <i>Inorganic Chemistry</i> , 2022, 61, 1672-1684.	4.0	4
88	Synthesis of a σ -Chlorosilyl Functionalized Donor-Stabilized Chlorogermylene. <i>Inorganics</i> , 2018, 6, 6.	2.7	3
89	Modulation of the nuclearity of molecular Mg^{II} -phosphates: solid-state structural change involving coordinating solvents. <i>Dalton Transactions</i> , 2019, 48, 8853-8860.	3.3	3
90	Towards the Total Synthesis of Jerangolids - Synthesis of an Advanced Intermediate for the Pharmacophore Substructure. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5833-5840.	2.4	3

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91	Chemie freier Radikale von Phosphasilenen. <i>Angewandte Chemie</i> , 2020, 132, 16141-16146.	2.0	3
92	Formation of Three New Base Adducts in the Reaction of the Aluminopolysiloxane $[\text{Ph}_2\text{SiO}]_8[\text{AlO}(\text{OH})]_4 \cdot 4\text{Et}_2\text{O}$ with Propane-1,3-diamine. <i>Organometallics</i> , 2010, 29, 5269-5273.	2.3	2
93	Luminescent Study on Nd^{3+} Complexes Containing Carboxylate-Dithiolene and Alkoxide-Dithiolene Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2551-2556.	1.2	1
94	Reactivity of Phenylacetylene toward Unsymmetrical Disilenes: Regiodivergent [2+2] Cycloaddition vs. CH Addition. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 1751-1758.	1.2	1
95	Crystal structure of 4-methylsulfonyl-2-(2H-tetrazol-2-yl)pyrimidine. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, o1051-o1052.	0.5	1
96	Molecular Routes to Advanced Materials: Synthesis of NdAlO_3 Ceramic and $\text{NdAlO}_3/\text{Al}_2\text{O}_3$ Composite From Single Source Precursors. , 2006, , 282-288.		0
97	Synthesis, Characterization, Crystal Structures, and in vitro Antitumor Activity of Palladium and Platinum (II) Complexes with 2-Acetyl-4-Methylthiazole Thiosemicarbazone and 2-Acetylpyrazine Thiosemicarbazone. , 2016, , .		0
98	Luminescent Symmetrically and Unsymmetrically Substituted Diboranes(4). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 816-827.	1.2	0
99	Donor-Stabilized Monocarbonyl-Bridged Bis(cyclopentadienyl)alanes. <i>ChemistryOpen</i> , 2020, 9, 1095-1099.	1.9	0
100	Silicon-carbon hybrid [2]ladderanes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	0
101	Siliconoid Expansion by a Single Germanium Atom through Isolated Intermediates. <i>Angewandte Chemie</i> , 0, , .	2.0	0