

Erica Brendler

List of Publications by Year in descending order

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64
papers

1,217
citations

331670

21
h-index

395702

33
g-index

65
all docs

65
docs citations

65
times ranked

1051
citing authors

#	ARTICLE	IF	CITATIONS
1	²⁹ Si DFT/NMR Observation of Spin-Orbit Effect in Metallasilatrane Sheds Some Light on the Strength of the Metal-Silicon Interaction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 255-259.	13.8	71
2	Metallasilatranes: Palladium(II) and Platinum(II) as Lone-Pair Donors to Silicon(IV). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 624-627.	13.8	69
3	Octahedral HSiCl ₃ and HSiCl ₂ Me Adducts with Pyridines. <i>Journal of the American Chemical Society</i> , 2009, 131, 6855-6864.	13.7	55
4	Atomic Contributions from Spin-Orbit Coupling to ²⁹ Si NMR Chemical Shifts in Metallasilatrane Complexes. <i>Chemistry - A European Journal</i> , 2012, 18, 12803-12813.	3.3	53
5	Extreme biomimetics: Preservation of molecular detail in centimeter-scale samples of biological meshes laid down by sponges. <i>Science Advances</i> , 2019, 5, eaax2805.	10.3	53
6	Switching between penta- and hexacoordination with salen-silicon-complexes. <i>Inorganica Chimica Acta</i> , 2005, 358, 4270-4286.	2.4	48
7	FT Raman investigation of sodium cellulose sulfate. <i>Cellulose</i> , 2010, 17, 427-435.	4.9	41
8	Dianion of Pyrrole-2-N-(o-hydroxyphenyl)carbalimine as an Interesting Tridentate (ONN) Ligand System in Hypercoordinate Silicon Complexes. <i>Organometallics</i> , 2007, 26, 234-240.	2.3	40
9	Reactions of Hydridochlorosilanes with 2,2'-Bipyridine and 1,10-Phenanthroline: Complexation versus Dismutation and Metal-Catalyst-Free 1,4-Hydrosilylation. <i>Inorganic Chemistry</i> , 2010, 49, 2667-2673.	4.0	40
10	Equilibrium between Tetra-, Penta-, and Hexacoordinate Imine and Enamine Chelates of Silicon: Crystal Structure and Variable-Temperature NMR. <i>Organometallics</i> , 2005, 24, 1348-1350.	2.3	39
11	Octahedral Adducts of Dichlorosilane with Substituted Pyridines: Synthesis, Reactivity and a Comparison of Their Structures and ²⁹ Si NMR Chemical Shifts. <i>Chemistry - A European Journal</i> , 2008, 14, 3164-3176.	3.3	38
12	Spider Chitin: An Ultrafast Microwave-Assisted Method for Chitin Isolation from <i>Caribena versicolor</i> Spider Molt Cuticle. <i>Molecules</i> , 2019, 24, 3736.	3.8	35
13	⁷ Li NMR as probe for solvent-cellulose interactions in cellulose dissolution. <i>Cellulose</i> , 2001, 8, 283-288.	4.9	34
14	Hypercoordinate Silacycloalkanes: Step-by-Step Tuning of Na-Si Interactions. <i>Organometallics</i> , 2009, 28, 5459-5465.	2.3	33
15	Analysis of carboxylate groups in oxidized never-dried cellulose II catalyzed by TEMPO and 4-acetamide-TEMPO. <i>Carbohydrate Polymers</i> , 2012, 87, 894-900.	10.2	30
16	Ylenes in the M ^{II} -Si ^{IV} (M=Si, Ge, Sn) Coordination Mode. <i>Chemistry - A European Journal</i> , 2010, 16, 13429-13434.	3.3	28
17	A Pentacoordinate Chlorotrimethylsilane Derivative: A very Polar Snapshot of a Nucleophilic Substitution and its Influence on ²⁹ Si Solid State NMR Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 1300-1305.	1.2	25
18	Synthesis of silicophosphates containing SiO ₆ -octahedra under ambient conditions reactions of anhydrous H ₃ PO ₄ with alkoxy silanes. <i>Chemical Communications</i> , 2012, 48, 7675.	4.1	25

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19	Novel Hexacoordinate Diorganosilanes with Salen-Type Ligands: Molecular Structure versus ^{29}Si NMR Chemical Shifts. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2907-2913.	1.2	22
20	^{29}Si NMR Shielding Tensors in Triphenylsilanes – ^{29}Si Solid State NMR Experiments and DFT-GLO Calculations. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 935-944.	1.2	22
21	First X-Ray Structure of a Cationic Silicon Complex with Salen-Type Ligand: An Unusual Compound with Two Different Si-N Dative Bonds. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2004, 59, 1348-1352.	0.7	22
22	Molecular structures of pyridinethiolato complexes of Sn(II), Sn(IV), Ge(IV), and Si(IV). <i>Main Group Metal Chemistry</i> , 2013, 36, .	1.6	21
23	Hypercoordinate Diorganosilanes Featuring an ONO^{\ominus} Tridentate Ligand. A Surprising Equilibrium Between Penta- and Tetracoordination. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2007, 62, 225-234.	0.7	20
24	Chlorosilanes and 3,5-Dimethylpyrazole: Multinuclear Complexes, Acetonitrile Insertion and ^{29}Si NMR Chemical-Shift Anisotropy Studies. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2954-2962.	2.0	20
25	Synthesis and Bioactivity of Cellulose Derivatives. <i>Macromolecular Symposia</i> , 2009, 280, 28-35.	0.7	19
26	Silicophosphates containing SiO_6 octahedra – anhydrous synthesis under ambient conditions. <i>New Journal of Chemistry</i> , 2014, 38, 744-751.	2.8	19
27	7-Azaindol-1-yl(organo)silanes and Their PdCl_2 Complexes: Pd-Capped Tetrahedral Silicon Coordination Spheres and Paddlewheels with a Pd-Si Axis. <i>Organometallics</i> , 2014, 33, 2479-2488.	2.3	19
28	Surprising Insights in the Various Molecular Structures of Hypercoordinate Bis(oxinato)silicon Complexes. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2005, 60, 1054-1064.	0.7	17
29	Pentacoordinate Silicon Complexes with $\text{N}(\text{C}_2\text{pyridylmethyl})_2\text{salicylamide}$ as a Dianionic (ONN^{2-}) Tridentate Chelator. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 1768-1775.	1.2	17
30	(S)-N-[(2-hydroxynaphthalen-1-yl)methylidene]valine – A valuable ligand for the preparation of chiral complexes. <i>Inorganica Chimica Acta</i> , 2018, 483, 136-147.	2.4	17
31	Impact of pre-treatments on properties of lignocelluloses and their accessibility for a subsequent carboxymethylation. <i>Carbohydrate Polymers</i> , 2017, 161, 82-89.	10.2	16
32	(2-Pyridyloxy)silanes as Ligands in Transition Metal Coordination Chemistry. <i>Inorganics</i> , 2018, 6, 119.	2.7	16
33	A Distorted Trigonal Antiprismatic Cationic Silicon Complex with Ureato Ligands: Syntheses, Crystal Structures and Solid State ^{29}Si NMR Properties. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 461-467.	2.0	15
34	Precursors for pyromellit-bridged silica sol-gel hybrid materials. <i>New Journal of Chemistry</i> , 2013, 37, 169-180.	2.8	15
35	Kinetics and activation parameters of the reaction of organoarsenic(V) compounds with glutathione. <i>Journal of Hazardous Materials</i> , 2014, 280, 734-740.	12.4	14
36	Disilicon Complexes with Two Hexacoordinate Si Atoms: Paddlewheel-Shaped Isomers with $(\text{ClN}_4\text{Si})_2\text{Si}(\text{S}_4\text{Cl})$ and $(\text{ClN}_2\text{S}_2\text{Si})_2\text{Si}(\text{S}_2\text{N}_2\text{Cl})$ Skeletons. <i>Chemistry - A European Journal</i> , 2013, 19, 14296-14303.	3.3	13

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37	2-acylpyrroles as monoanionic $\langle i \rangle \text{O} \langle /i \rangle, \langle i \rangle \text{N} \langle /i \rangle$ -chelating ligands in silicon coordination chemistry. Chemistry - A European Journal, 2014, 20, 9409-9418.	3.3	13
38	Spectroscopic Characterization of Rocksalt-Type Aluminum Nitride. Journal of Physical Chemistry C, 2015, 119, 12581-12588.	3.1	12
39	Unexpected Formation and Crystal Structure of the Highly Symmetric Carbanion $[\text{C}(\text{SiCl}_3)_3]^-$. European Journal of Inorganic Chemistry, 2016, 2016, 5028-5035.	2.0	12
40	New Insights into Hexacoordinated Silicon Complexes with 8-Oxyquinolato Ligands: 1,3-Shift of Si-Bound Hydrocarbyl Substituents and the Influence of Si-Bound Halides on the 8-Oxyquinolate Coordination Features. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2014, 69, 1402-1418.	0.7	10
41	Hybrid-coatings derived from pyromellitic acid bridged alkoxy-silylalkyl precursors. Journal of Sol-Gel Science and Technology, 2014, 70, 191-202.	2.4	9
42	$\text{Tp}^*\text{Cu}(\text{CN})_2\text{SiCl}_2\text{NCuTp}^*$ a hexacoordinate Si-complex as connector for redox active metals via π -conjugated ligands. Dalton Transactions, 2015, 44, 4744-4750.	3.3	9
43	The direct and reversible hydrogenation of activated aluminium supported by piperidine. Dalton Transactions, 2020, 49, 17689-17698.	3.3	7
44	A Low-Cost Al-Graphite Battery with Urea and Acetamide-Based Electrolytes. ChemElectroChem, 2021, 8, 1988-1992.	3.4	7
45	Electrochemical Stimulation of Water-Oil Interfaces by Nonionic Cationic Block Copolymer Systems. Langmuir, 2021, 37, 1073-1081.	3.5	7
46	3,5-Dimethylpyrazolyl-substituted Di- and Trisiloxanes. European Journal of Inorganic Chemistry, 2016, 2016, 4207-4215.	2.0	5
47	Highly Selective Mitsunobu Esterification of Cellulose with Hydroxycinnamic Acids. Macromolecular Chemistry and Physics, 2021, 222, 2100232.	2.2	5
48	Synthesis of carboxyl cellulose sulfates with regioselective sulfation and regiospecific oxidation using cellulose trifluoroacetate as intermediates. Cellulose, 2013, 20, 2069-2080.	4.9	4
49	Hexacoordinate Silicon Compounds with a Dianionic Tetradentate (N,N ϵ^2 ,N ϵ^2 ,N)-Chelating Ligand. Inorganics, 2016, 4, 8.	2.7	4
50	Five- and six-fold coordinated silicon in silicodiphosphonates: short range order investigation by solid-state NMR spectroscopy. New Journal of Chemistry, 2020, 44, 4613-4620.	2.8	4
51	Unexpected Formation of the Highly Symmetric Borate Ion $[\text{B}(\text{SiCl}_3)_4]^-$. European Journal of Inorganic Chemistry, 2021, 2021, 2583-2594.	2.0	4
52	Structural Insight into Layered Silicon Hydrogen Phosphates Containing $[\text{SiO}_6]$ Octahedra Prepared by Different Reaction Routes. European Journal of Inorganic Chemistry, 2019, 2019, 828-836.	2.0	3
53	Ionic Dissociation of SiCl_4 : Formation of $[\text{SiL}_6]\text{Cl}_4$ with L=Dimethylphosphinic Acid. Chemistry - A European Journal, 2020, 26, 8003-8006.	3.3	3
54	Investigation of the synthesis and the alkali corrosion of potassium aluminosilicates by XRD and NMR (^{29}Si , ^{27}Al). Ceramics International, 2021, 47, 33596-33605.	4.8	3

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55	[Si _x H _y] _n – Perhydridopolysilathianes: Cross-Linked Thio Analogues of Polysiloxanes. European Journal of Inorganic Chemistry, 2016, 2016, 4557-4560.	2.0	2
56	Synthesis and temperature-dependent NMR studies of monomeric and dimeric tris(dialkylamido)alanes. Dalton Transactions, 2022, 51, 6427-6435.	3.3	2
57	Disilanes with Pentacoordinate Si Atoms by Carbon Dioxide Insertion into Aminodisilanes: Syntheses, Molecular Structures, and Dynamic Behavior. ACS Omega, 2022, 7, 9527-9536.	3.5	2
58	A new aspect of the “pseudo water”-concept of bis(trimethylsilyl)carbodiimide – “pseudohydrates” of aluminum. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 911-918.	0.7	1
59	Bis(triphenylphosphane) Aluminum Hydride: A Simple Way to Provide, Store, and Use Non-Polymerized Alane for Synthesis. ChemPlusChem, 2021, 86, 1193-1198.	2.8	1
60	Valinate and SiMe ₂ – An interesting couple in pentacoordinate Si-complexes: Templated generation of the dipeptide val-val and formation of an organosilicon-ammonia-adduct. Journal of Organometallic Chemistry, 2021, 956, 122126.	1.8	1
61	Phenylarsonic acid – DMPS redox reaction and conjugation investigated by NMR spectroscopy and X-ray diffraction. Environmental Toxicology and Pharmacology, 2022, 92, 103837.	4.0	1
62	P-Ru-Complexes with a Chelate-Bridge-Switch: A Comparison of 2-Picolyl and 2-Pyridyloxy Moieties as Bridging Ligands. Molecules, 2022, 27, 2778.	3.8	1
63	A Low-Cost Al-Graphite Battery with Urea and Acetamide-Based Electrolytes. ChemElectroChem, 2021, 8, 1928-1928.	3.4	0
64	Convenient two step synthesis of ²⁹ Si labelled tetraalkoxysilanes. Chemical Communications, 2020, 56, 13631-13633.	4.1	0