Erica Brendler

List of Publications by Year
in descending order

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	Synthesis and temperature-dependent NMR studies of monomeric and dimeric tris(dialkylamido)alanes. Dalton Transactions, 2022, 51, 6427-6435.	3.3	2
2	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
3	Phenylarsonic acidâ€“DMPS redox reaction and conjugation investigated by NMR spectroscopy and X-ray diffraction. Environmental Toxicology and Pharmacology, 2022, 92, 103837.	4.0	1
4	Pâ€“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
5	A Lowâ€Cost Alâ€Graphite Battery with Urea and Acetamideâ€Based Electrolytes. ChemElectroChem, 2021, 8, 1928-1928.	3.4	0
6	A Lowâ€Cost Alâ€Graphite Battery with Urea and Acetamideâ€Based Electrolytes. ChemElectroChem, 2021, 8, 1988-1992.	3.4	7
7	Unexpected Formation of the Highly Symmetric Borate Ion [B(SiCl 3) 4] â^'. European Journal of Inorganic Chemistry, 2021, 2021, 2583-2594.	2.0	4
8	Bisâ€(triphenylphosphane) Aluminum Hydride: A Simple Way to Provide, Store, and Use Nonâ€Polymerized Alane for Synthesis. ChemPlusChem, 2021, 86, 1193-1198.	2.8	1
9	Investigation of the synthesis and the alkali corrosion of potassium aluminosilicates by XRD and NMR (29Si, 27Al). Ceramics International, 2021, 47, 33596-33605.	4.8	3
10	Highly Selective Mitsunobu Esterification of Cellulose with Hydroxycinnamic Acids. Macromolecular Chemistry and Physics, 2021, 222, 2100232.	2.2	5
11	Valinate and SiMe2 â€“ 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
12	Electrochemical Stimulation of Waterâ€“Oil Interfaces by Nonionicâ€“Cationic Block Copolymer Systems. Langmuir, 2021, 37, 1073-1081.	3.5	7
13	The direct and reversible hydrogenation of activated aluminium supported by piperidine. Dalton Transactions, 2020, 49, 17689-17698.	3.3	7
14	Ionic Dissociation of SiCl₄: Formation of [SiL₆]Cl₄ with L=Dimethylphosphinic Acid. Chemistry - A European Journal, 2020, 26, 8003-8006.	3.3	3
15	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
16	Convenient two step synthesis of ²⁹Si labelled tetraalkoxysilanes. Chemical Communications, 2020, 56, 13631-13633.	4.1	0
17	Spider Chitin: An Ultrafast Microwave-Assisted Method for Chitin Isolation from Caribena versicolor Spider Molt Cuticle. Molecules, 2019, 24, 3736.	3.8	35
18	Extreme biomimetics: Preservation of molecular detail in centimeter-scale samples of biological meshes laid down by sponges. Science Advances, 2019, 5, eaax2805.	10.3	53

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19	Structural Insight into Layered Silicon Hydrogen Phosphates Containing [SiO 6] Octahedra Prepared by Different Reaction Routes. European Journal of Inorganic Chemistry, 2019, 2019, 828-836.	2.0	3
20	A new aspect of the â€œpseudo waterâ€•concept of bis(trimethylsilyl)carbodiimide â€“ â€œpseudohydratesâ€•of aluminum. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 911-918.	0.7	1
21	(2-Pyridyloxy)silanes as Ligands in Transition Metal Coordination Chemistry. Inorganics, 2018, 6, 119.	2.7	16
22	(S)-N-[(2-hydroxynaphthalen-1-yl)methylidene]valine â€“ A valuable ligand for the preparation of chiral complexes. Inorganica Chimica Acta, 2018, 483, 136-147.	2.4	17
23	Impact of pre-treatments on properties of lignocelluloses and their accessibility for a subsequent carboxymethylation. Carbohydrate Polymers, 2017, 161, 82-89.	10.2	16
24	Hexacoordinate Silicon Compounds with a Dianionic Tetradentate (N,Nâ€²,Nâ€²,N)-Chelating Ligand. Inorganics, 2016, 4, 8.	2.7	4
25	[SiS_xH_y]_n â€“ Perhydridopolysilathianes: Crossâ€Linked Thio Analogues of Polysiloxanes. European Journal of Inorganic Chemistry, 2016, 2016, 4557-4560.	2.0	2
26	3,5â€Dimethylpyrazolylâ€Substituted Diâ€•and Trisiloxanes. European Journal of Inorganic Chemistry, 2016, 2016, 4207-4215.	2.0	5
27	Unexpected Formation and Crystal Structure of the Highly Symmetric Carbanion [C(SiCl₃)₃]^{â€“}. European Journal of Inorganic Chemistry, 2016, 2016, 5028-5035.	2.0	12
28	Tp*Cu(<scp>i</scp>)â€“CNâ€“SiL₂â€“NCâ€“Cu(<scp>i</scp>)Tp* â€“ a hexacoordinate Si-complex as connector for redox active metals via Ï€-conjugated ligands. Dalton Transactions, 2015, 44, 4744-4750.	3.3	9
29	Spectroscopic Characterization of Rocksalt-Type Aluminum Nitride. Journal of Physical Chemistry C, 2015, 119, 12581-12588.	3.1	12
30	2â€Acylpyrroles as Monoâ€anionic O,Nâ€Chelating Ligands in Silicon Coordination Chemistry. Chemistry - A European Journal, 2014, 20, 9409-9418.	3.3	13
31	New Insights into Hexacoordinated Silicon Complexes with 8- Oxyquinolinato Ligands: 1,3-Shift of Si-Bound Hydrocarbyl Substituents and the Influence of Si-Bound Halides on the 8-Oxyquinolinate Coordination Features. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2014, 69, 1402-1418.	0.7	10
32	Kinetics and activation parameters of the reaction of organoarsenic(V) compounds with glutathione. Journal of Hazardous Materials, 2014, 280, 734-740.	12.4	14
33	Silicophosphates containing SiO₆octahedra â€“ anhydrous synthesis under ambient conditions. New Journal of Chemistry, 2014, 38, 744-751.	2.8	19
34	Hybrid-coatings derived from pyromellitic acid bridged alkoxy-silylalkyl precursors. Journal of Sol-Gel Science and Technology, 2014, 70, 191-202.	2.4	9
35	7-Azaindol-1-yl(organo)silanes and Their PdCl2 Complexes: Pd-Capped Tetrahedral Silicon Coordination Spheres and Paddlewheels with a Pdâ€“Si Axis. Organometallics, 2014, 33, 2479-2488.	2.3	19
36	Disilicon Complexes with Two Hexacoordinate Si Atoms: Paddlewheelâ€Shaped Isomers with (ClN₄)Sïï£¿Si(S₄Cl) and (ClN₂S₂)Sïï£¿Si(S₂N₂Cl) Skeletons. Chemistry - A European Journal, 2013, 19, 14296-14303.	3.3	13

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37	Synthesis of carboxyl cellulose sulfates with regioselective sulfation and regiospecific oxidation using cellulose trifluoroacetate as intermediates. Cellulose, 2013, 20, 2069-2080.	4.9	4
38	Chlorosilanes and 3,5-Dimethylpyrazole: Multinuclear Complexes, Acetonitrile Insertion and29Si NMR Chemical-Shift Anisotropy Studies. European Journal of Inorganic Chemistry, 2013, 2013, 2954-2962.	2.0	20
39	Precursors for pyromellit-bridged silica solâ€“gel hybrid materials. New Journal of Chemistry, 2013, 37, 169-180.	2.8	15
40	Molecular structures of pyridinethiolato complexes of Sn(II), Sn(IV), Ge(IV), and Si(IV). Main Group Metal Chemistry, 2013, 36, .	1.6	21
41	Synthesis of silicophosphates containing SiO6-octahedra under ambient conditions â€“ reactions of anhydrous H3PO4 with alkoxysilanes. Chemical Communications, 2012, 48, 7675.	4.1	25
42	Atomic Contributions from Spinâ€Orbit Coupling to ²⁹Si NMR Chemical Shifts in Metallasilatrane Complexes. Chemistry - A European Journal, 2012, 18, 12803-12813.	3.3	53
43	Pentacoordinate Silicon Complexes with Nâ€(2â€pyridylmethyl)Âsalicylamide as a Dianionic (ONNâ€²) Tridentate Chelator. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1768-1775.	1.2	17
44	²⁹Si NMR Shielding Tensors in Triphenylsilanes â€“ ²⁹Si Solid State NMR Experiments and DFTâ€GLO Calculations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 935-944.	1.2	22
45	Analysis of carboxylate groups in oxidized never-dried cellulose II catalyzed by TEMPO and 4-acetamide-TEMPO. Carbohydrate Polymers, 2012, 87, 894-900.	10.2	30
46	²⁹Si DFT/NMR Observation of Spinâ€“Orbit Effect in Metallasilatrane Sheds Some Light on the Strength of the Metalâ†'Silicon Interaction. Angewandte Chemie - International Edition, 2011, 50, 255-259.	13.8	71
47	Reactions of Hydridochlorosilanes with 2,2â€²-Bipyridine and 1,10-Phenanthroline: Complexation versus Dismutation and Metal-Catalyst-Free 1,4-Hydrosilylation. Inorganic Chemistry, 2010, 49, 2667-2673.	4.0	40
48	FT Raman investigation of sodium cellulose sulfate. Cellulose, 2010, 17, 427-435.	4.9	41
49	A Distorted Trigonal Antiprismatic Cationic Silicon Complex with Ureato Ligands: Syntheses, Crystal Structures and Solid State29Si NMR Properties. European Journal of Inorganic Chemistry, 2010, 2010, 461-467.	2.0	15
50	Ylenes in the M^{II}â†'Si^{IV} (M=Si, Ge, Sn) Coordination Mode. Chemistry - A European Journal, 2010, 16, 13429-13434.	3.3	28
51	Metallasilatranes: Palladium(II) and Platinum(II) as Loneâ€Pair Donors to Silicon(IV). Angewandte Chemie - International Edition, 2010, 49, 624-627.	13.8	69
52	A Pentacoordinate Chlorotrimethylsilane Derivative: A very Polar Snapshot of a Nucleophilic Substitution and its Influence on ²⁹Si Solid State NMR Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1300-1305.	1.2	25
53	Hypercoordinate Silacycloalkanes: Step-by-Step Tuning of Nâ†'Si InteractionsÂ§. Organometallics, 2009, 28, 5459-5465.	2.3	33
54	Octahedral HSiCl₃ and HSiCl₂Me Adducts with Pyridines. Journal of the American Chemical Society, 2009, 131, 6855-6864.	13.7	55

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55	Synthesis and Bioactivity of Cellulose Derivatives. Macromolecular Symposia, 2009, 280, 28-35.	0.7	19
56	Octahedral Adducts of Dichlorosilane with Substituted Pyridines: Synthesis, Reactivity and a Comparison of Their Structures and ²⁹Siâ€…NMR Chemical Shifts. Chemistry - A European Journal, 2008, 14, 3164-3176.	3.3	38
57	Hypercoordinate Diorganosilanes Featuring an â€ˆONOâ€‰ Tridentate Ligand. A Surprising EquilibriumBetween Penta- and Tetracoordination. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 225-234.	0.7	20
58	Dianion of Pyrrole-2-N-(o-hydroxyphenyl)carbaldimine as an Interesting Tridentate (ONN) Ligand System in Hypercoordinate Silicon Complexes. Organometallics, 2007, 26, 234-240.	2.3	40
59	Switching between penta- and hexacoordination with salen-silicon-complexes. Inorganica Chimica Acta, 2005, 358, 4270-4286.	2.4	48
60	Novel Hexacoordinate Diorganosilanes with Salen-Type Ligands: Molecular Structure versus29Si NMR Chemical Shifts. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2907-2913.	1.2	22
61	Surprising Insights in the Various Molecular Structures of Hypercoordinate Bis(oxinato)silicon Complexes. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2005, 60, 1054-1064.	0.7	17
62	Equilibrium between Tetra-, Penta-, and Hexacoordinate Imine and Enamine Chelates of Silicon:â€‰ Crystal Structure and Variable-Temperature NMR. Organometallics, 2005, 24, 1348-1350.	2.3	39
63	First X-Ray Structure of a Cationic Silicon Complex with Salen-Type Ligand: An Unusual Compound with Two Different Si-N Dative Bonds. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2004, 59, 1348-1352.	0.7	22
64	7Li NMR as probe for solventâ€“cellulose interactions in cellulose dissolution. Cellulose, 2001, 8, 283-288.	4.9	34