

# Edwin Kroke

## List of Publications by Citations

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167  
papers

5,229  
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31  
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67  
g-index

180  
ext. papers

5,693  
ext. citations

5.8  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
167	Synthesis of cubic silicon nitride. <i>Nature</i> , <b>1999</b> , 400, 340-342	50.4	549
166	Tri-s-triazine derivatives. Part I. From trichloro-tri-s-triazine to graphitic C <sub>3</sub> N <sub>4</sub> structures. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 508-512	3.6	500
165	Novel group 14 nitrides. <i>Coordination Chemistry Reviews</i> , <b>2004</b> , 248, 493-532	23.2	373
164	Silazane derived ceramics and related materials. <i>Materials Science and Engineering Reports</i> , <b>2000</b> , 26, 97-199	30.9	361
163	Tri-s-triazines (s-heptazines) From a mystery molecule to industrially relevant carbon nitride materials. <i>Coordination Chemistry Reviews</i> , <b>2013</b> , 257, 2032-2062	23.2	174
162	Thermal cross-linking and pyrolytic conversion of poly(ureamethylvinyl)silazanes to silicon-based ceramics. <i>Applied Organometallic Chemistry</i> , <b>2001</b> , 15, 820-832	3.1	132
161	Elastic Moduli and Hardness of Cubic Silicon Nitride. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 86-90	3.8	122
160	Inorganic Solid-State Chemistry with Main Group Element Carbodiimides. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 2964-2979	9.6	120
159	Spinel-Si <sub>3</sub> N <sub>4</sub> : Multi-Anvil Press Synthesis and Structural Refinement. <i>Advanced Materials</i> , <b>2000</b> , 12, 883-887	113	
158	Crystallization Behavior of Amorphous Silicon Carbonitride Ceramics Derived from Organometallic Precursors. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 2170-2178	3.8	109
157	Methyl-DOPO a new flame retardant for flexible polyurethane foam. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 5-13	3.2	87
156	Flame retardancy working mechanism of methyl-DOPO and MPPP in flexible polyurethane foam. <i>Fire and Materials</i> , <b>2012</b> , 36, 1-15	1.8	79
155	High-pressure synthesis of crystalline carbon nitride imide, C <sub>2</sub> N <sub>2</sub> (NH). <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 1476-80	16.4	74
154	Potassium melonate, K <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ]·H <sub>2</sub> O, and its potential use for the synthesis of graphite-like C <sub>3</sub> N <sub>4</sub> materials. <i>New Journal of Chemistry</i> , <b>2005</b> , 29, 693	3.6	74
153	Alkalicyamelurates, M <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> O <sub>3</sub> ].xH <sub>2</sub> O, M = Li, Na, K, Rb, Cs: UV-luminescent and thermally very stable ionic tri-s-triazine derivatives. <i>Dalton Transactions</i> , <b>2004</b> , 3900-8	4.3	69
152	The tautomeric forms of cyameluric acid derivatives. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 1158-73	4.8	58
151	Etching Silicon with HF-H <sub>2</sub> O <sub>2</sub> -Based Mixtures: Reactivity Studies and Surface Investigations. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 2044-2051	3.8	56

150	Flexible Polyurethane Foam with the Flame-retardant Melamine. <i>Journal of Cellular Plastics</i> , <b>2008</b> , 44, 469-480	1.5	52
149	Octahedral HSiCl <sub>3</sub> and HSiCl <sub>2</sub> Me adducts with pyridines. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6855-64	16.4	51
148	Nanotubes Formed by Detonation of C/N Precursors. <i>Advanced Materials</i> , <b>1999</b> , 11, 158-161	24	51
147	Texturing of SiC-slurry and diamond wire sawn silicon wafers by HF-HNO <sub>3</sub> -H <sub>2</sub> SO <sub>4</sub> mixtures. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 127, 104-110	6.4	46
146	Hard silicon carbonitride films obtained by RF-plasma-enhanced chemical vapour deposition using the single-source precursor bis(trimethylsilyl)carbodiimide. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 1325-1335	6	43
145	gt-C <sub>3</sub> N <sub>4</sub> the first stable binary carbon(IV) nitride. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11134-6	16.4	37
144	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> , <b>2010</b> , 49, 2667-73	5.1	37
143	Polysilazane-derived antibacterial silver ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 3287-3292	6	37
142	Hypercoordinate Organosilicon Complexes of an ONN?O? Chelating Ligand: Regio- and Diastereoselectivity of Rearrangement Reactions in SiBalphen Systems. <i>Organometallics</i> , <b>2009</b> , 28, 621-629	3.8	35
141	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> , <b>2008</b> , 14, 3164-76	4.8	35
140	Siliranes: Formation, isonitrile insertions, and thermal rearrangements. <i>Tetrahedron Letters</i> , <b>1996</b> , 37, 3675-3678	2	34
139	Synthesis and Characterization of Novel Non-Oxide Sol-Gel Derived Mesoporous Amorphous Si-C-N Membranes. <i>Journal of the Ceramic Society of Japan</i> , <b>2006</b> , 114, 567-570		32
138	B/C/N Materials and B <sub>4</sub> C Synthesized by a Non-Oxide Sol-Gel Process. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 755-764	9.6	32
137	Texturing of monocrystalline silicon wafers by HF-HCl-H <sub>2</sub> O <sub>2</sub> mixtures: Generation of random inverted pyramids and simulation of light trapping in PERC solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 112-120	6.4	31
136	Nano-structured metal-containing polymer precursors for high temperature non-oxide ceramics and ceramic fibers. Syntheses, pyrolyses and properties. <i>Journal of the European Ceramic Society</i> , <b>2002</b> , 22, 2577-2585	6	31
135	Schiff base tailed silatranes for the fabrication of functionalized silica based magnetic nano-cores possessing active sites for the adsorption of copper ions. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 1640-1648	3.6	30
134	Structure elucidation of cyameluric acid by combining solid-state NMR spectroscopy, molecular modeling and direct-space methods. <i>Journal of Molecular Structure</i> , <b>2008</b> , 889, 217-228	3.4	30
133	Spinel sialons. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 789-93	16.4	30

132	Higher-Coordinated Molecular Silicon Compounds. <i>Structure and Bonding</i> , <b>2013</b> , 29-105	0.9	27
131	Emulsion processing of polymer-derived porous Si/C/(O) ceramic bodies. <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 2857-2865	6	27
130	A Sol <del>Gel</del> Route to B4C. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1698-1700	16.4	27
129	An anhydrous sol <del>Gel</del> system derived from methyldichlorosilane. <i>Applied Organometallic Chemistry</i> , <b>1999</b> , 13, 495-499	3.1	27
128	Use of melem as a nucleophilic reagent to form the triphthalimide C6N7(phthal)3--new targets and prospects. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 12052-8	4.8	26
127	Guanidinium cyanurates versus guanidinium cyamelurates: Synthesis, spectroscopic investigation and structural characterization. <i>Journal of Molecular Structure</i> , <b>2008</b> , 888, 204-213	3.4	26
126	Viscoelastic Properties of Novel Silicon Carbodiimide Gels. <i>Macromolecules</i> , <b>2000</b> , 33, 3404-3408	5.5	26
125	Silicon compounds with strong intramolecular steric interactions. 58. Reactions of a disilene and a silylene with cyclopentadiene, furan, and thiophene: [2 + 4]-Cycloadditions versus chalcogen abstraction. <i>Organometallics</i> , <b>1995</b> , 14, 5695-5699	3.8	26
124	Interface phenomena in (super)hard nitride nanocomposites: from coatings to bulk materials. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 5081-101	58.5	25
123	Hypercoordinate Silicon Complexes of (O,N,N? vs. O,N,O?) Schiff Base Type N-(2-Carbamidophenyl)imines: Examples of Exclusively O-Silylated Carbamides. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 1027-1035	2.3	24
122	The Structure And Tautomerism Of Cyameluric Acid*. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2006</b> , 61, 975-978	1	24
121	Synthesis and characterization of alkylene-bridged silsesquicarbodiimide hybrid xerogels. <i>Journal of Organometallic Chemistry</i> , <b>2003</b> , 686, 127-133	2.3	24
120	Disilene and silylene additions to the double bonds of alkenes and 1,3-dienes: molecular structure of a [2 + 2] cycloaddition product. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 1233	24	
119	Reactions of CO <sub>2</sub> and CO <sub>2</sub> Analogs (CX <sub>Y</sub> with X, Y=O, S, NR) with Reagents Containing SiH and SiN Units. <i>Advances in Inorganic Chemistry</i> , <b>2014</b> , 117-162	2.1	23
118	Synthesis of silicophosphates containing SiO <sub>6</sub> -octahedra under ambient conditions--reactions of anhydrous H <sub>3</sub> PO <sub>4</sub> with alkoxysilanes. <i>Chemical Communications</i> , <b>2012</b> , 48, 7675-7	5.8	23
117	Derivatization of 3-aminopropylsilatrane to introduce azomethine linkage in the axial chain: Synthesis, characterization and structural studies. <i>Journal of Organometallic Chemistry</i> , <b>2013</b> , 724, 186-193	22	
116	Stable TrichlorosilanePyridine Adducts. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 5020-5023	2.3	22
115	High-pressure syntheses of novel binary nitrogen compounds of main group elements. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 77-82	16.4	22

114	Synthesis of Monodisperse Spherical Silicon Dicarbodiimide Particles. <i>Advanced Materials</i> , <b>2000</b> , 12, 956-961	22
113	Dichlorosilane-derived nano-silicon inside hollow carbon spheres as a high-performance anode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9262-9271	13 21
112	Melem- and melamine-derived iminophosphoranes. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 1893	3.6 21
111	Thermal Decomposition Behavior of the Flame Retardant Melamine in Slabstock Flexible Polyurethane Foams. <i>Journal of Fire Sciences</i> , <b>2009</b> , 27, 187-211	1.5 21
110	High-Pressure Synthesis of Crystalline Carbon Nitride Imide, C <sub>2</sub> N <sub>2</sub> (NH). <i>Angewandte Chemie</i> , <b>2007</b> , 119, 1498-1502	3.6 21
109	State of the Art in the Preparation and Properties of Molecular Monomeric -Heptazines: Syntheses, Characteristics, and Functional Applications. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2515-2544	68.1 21
108	Etching Silicon with HF-NaNO <sub>3</sub> -H <sub>2</sub> SO <sub>4</sub> /H <sub>2</sub> O Mixtures [Unprecedented Formation of Trifluorosilane, Hexafluorodisiloxane, and SiF Surface Groups. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 5714-5721	2.3 20
107	N-(o-Aminophenyl)-2-oxy-4-methoxybenzophenoneimine [Si-chelation by a tridentate ONN ligand system versus benzimidazoline formation. <i>Inorganic Chemistry Communication</i> , <b>2008</b> , 11, 492-496	3.1 20
106	Synthesis of carbon nanotubes by detonation of 2,4,6-triazido-1,3,5-triazine in the presence of transition metals. <i>Carbon</i> , <b>2004</b> , 42, 823-828	10.4 20
105	Chlorosilanes and 3,5-Dimethylpyrazole: Multinuclear Complexes, Acetonitrile Insertion and <sup>29</sup> Si NMR Chemical-Shift Anisotropy Studies. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 2954-2962 <sup>2-3</sup>	19
104	A series of aryl-/alkyl-substituted melems. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 953	3.6 19
103	New silatranes possessing urea functionality: Synthesis, characterization and their structural aspects. <i>Journal of Organometallic Chemistry</i> , <b>2011</b> , 696, 1341-1348	2.3 19
102	Synthesis, microstructure and hardness of bulk ultrahard BN nanocomposites. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 981-993	2.5 19
101	Emulsion Processing and Size Control of Polymer-derived Spherical Si/C/O Ceramic Particles. <i>Soft Materials</i> , <b>2007</b> , 4, 287-299	1.7 19
100	s-Triazine and tri-s-triazine based organic-inorganic hybrid gels prepared from chlorosilanes by exchange reactions. <i>Chemical Communications</i> , <b>2006</b> , 4741-3	5.8 19
99	Development of new precursors for immobilizing dyes onto silica surfaces. <i>Dyes and Pigments</i> , <b>2014</b> , 108, 41-49	4.6 17
98	From CO <sub>2</sub> to Polysiloxanes: Di(carbamoyloxy)silanes Me <sub>2</sub> Si[(OCO)NRR'] <sub>2</sub> as Precursors for PDMS. <i>Organometallics</i> , <b>2012</b> , 31, 4779-4785	3.8 17
97	Crystal Structure of Triphenyl Cyamelurate (2,5,8-Triphenoxy-1,3,4,6,7,9,9b-heptaazaphenalene). <i>Heterocycles</i> , <b>2006</b> , 68, 2499	0.8 17

96	Pentacoordinate Silicon Complexes with N-(2-pyridylmethyl)Balicylamide as a Dianionic (ONN?) Tridentate Chelator. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2012</b> , 638, 1768-1775	1.3	16
95	HF-(NH) <sub>3</sub> O-HCl Mixtures for HNO <sub>3</sub> - and NO <sub>x</sub> -free Etching of Diamond Wire- and SiC-Slurry-Sawn Silicon Wafers: Reactivity Studies, Surface Chemistry, and Unexpected Pyramidal Surface Morphologies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8733-42	9.5	15
94	In situ synthesis of Si <sub>2</sub> N <sub>2</sub> O/Si <sub>3</sub> N <sub>4</sub> composite ceramics using polysilyloxycarbodiimide precursors. <i>Journal of the European Ceramic Society</i> , <b>2013</b> , 33, 2181-2189	6	15
93	Hexamethoxycyclotriphosphazene as a flame retardant for polyurethane foams. <i>Fire and Materials</i> , <b>2014</b> , 38, 462-473	1.8	15
92	C(6)N(7)Cl[N(C(6)H(5))(2)](2).p-C(6)H(4)(CH(3))(2)-a mono-chloro-tri-s-triazine adduct. <i>Chemical Communications</i> , <b>2010</b> , 46, 2829-31	5.8	15
91	Shock wave synthesis of aluminium nitride with rocksalt structure. <i>High Pressure Research</i> , <b>2012</b> , 32, 23-29	1.1	15
90	Silicophosphates containing SiO <sub>6</sub> octahedra. Anhydrous synthesis under ambient conditions. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 744-751	3.6	14
89	Precursors for pyromellit-bridged silica sol-gel hybrid materials. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 169-180	3.6	13
88	A Distorted Trigonal Antiprismatic Cationic Silicon Complex with Ureato Ligands: Syntheses, Crystal Structures and Solid State <sup>29</sup> Si NMR Properties. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 461-467	2.3	13
87	Siliciumverbindungen mit starken intramolekularen sterischen wechselwirkungen. <i>Journal of Organometallic Chemistry</i> , <b>1993</b> , 461, 35-38	2.3	13
86	Spectroscopic Characterization of Rocksalt-Type Aluminum Nitride. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 12581-12588	3.8	12
85	Hexaphenoxycyclotriphosphazene as FR for CFR anionic PA6 via T-RTM: a study of mechanical and thermal properties. <i>Fire and Materials</i> , <b>2017</b> , 41, 291-306	1.8	12
84	3,5-Dimethylpyrazole Derivatives of (Hydrido)chlorosilanes. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 2402-2408	2.3	12
83	Cyclic Silylcarbodiimides as Precursors for Porous Si/C/N Materials: Formation, Structures, and Stabilities. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3941-3949	9.6	12
82	New insights into acidic wet chemical silicon etching by HF/H <sub>2</sub> O <sub>2</sub> /H <sub>2</sub> SO <sub>4</sub> /H <sub>2</sub> SO <sub>4</sub> solutions. <i>Materials Science in Semiconductor Processing</i> , <b>2010</b> , 13, 71-79	4.3	12
81	Lithium Melonate, Li <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ]·6H <sub>2</sub> O. Synthesis, Crystal Structure and Thermal Properties of a Novel Precursor for Graphitic Carbon Nitrides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2010</b> , 636, 196-200	1.3	12
80	NOHSO <sub>4</sub> /HF. A Novel Etching System for Crystalline Silicon. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2007</b> , 62, 1411-1421	1	12
79	Diverse Molecular Architectures of Si and Sn [4.4.3.01,6]Tridecane Cages Derived from a Mannich Base Possessing Semi-Rigid Unsymmetrical Podands. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 1730-1737	2.3	12

78	2-Acylpyrroles as mono-anionic O,N-chelating ligands in silicon coordination chemistry. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 9409-18	4.8	11
77	Microwave-induced decomposition of nitrogen-rich iron salts and CNT formation from iron(III)ethonate Fe[C9N13]. <i>Carbon</i> , <b>2010</b> , 48, 1137-1145	10.4	11
76	Fluorescent biogenic Schiff base compounds of dimethyltin. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 1655-1664	11	
75	Arylthio- and Arylseleno-Substituted s-Heptazines. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 12510-12518	4.8	10
74	Proton transfer assisted facile encapsulation of picric acid in sol-gel derived silica decorated with azo-azomethine hosts. <i>Dyes and Pigments</i> , <b>2017</b> , 139, 635-643	4.6	10
73	Insertion of CO <sub>2</sub> and related heteroallenes into the Si-N-bond of methyl(N-morpholino)silanes. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 473, 20-28	2.7	10
72	HF-HNO <sub>3</sub> -H <sub>2</sub> SO <sub>4</sub> /H <sub>2</sub> O Mixtures for Etching Multicrystalline Silicon Surfaces: Formation of NO <sub>2</sub> <sup>+</sup> , Reaction Rates and Surface Morphologies. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2011</b> , 66, 155-163	1	10
71	Electronic structure calculation of cohesive properties of some Si <sub>6-x</sub> Al <sub>x</sub> O <sub>2</sub> N <sub>8-x</sub> spinels. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 176, 549-555	3.3	10
70	Unexpected Formation and Crystal Structure of the Highly Symmetric Carbanion [C(SiCl <sub>3</sub> ) <sub>3</sub> ] <sup>0</sup> . <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 5028-5035	2.3	10
69	Silicon Compounds of 1,1-Bis(pyrrol-2-yl)ethenes: Molecular Structures and Chemical and Spectroscopic Properties. <i>Organometallics</i> , <b>2014</b> , 33, 112-120	3.8	9
68	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-Oxyquinolate Coordination Features. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2014</b> , 69, 1402-1418	1	9
67	2,5,8-Trihydrazino-s-heptazine: A Precursor for Heptazine-based Iminophosphoranes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2009</b> , 635, NA-NA	1.3	9
66	Sol-gel analogous aminolysis-ammonolysis of chlorosilanes to chlorine-free Si/(C)/N-materials. <i>Dalton Transactions</i> , <b>2009</b> , 5474-7	4.3	9
65	The different modes of decomposition of hexa-t-butylcyclotrisilane. <i>Journal of Organometallic Chemistry</i> , <b>1995</b> , 499, 229-234	2.3	9
64	Low cost apparatus for rapid boiling point determination of small air sensitive samples under inert atmosphere. <i>Thermochimica Acta</i> , <b>2017</b> , 654, 81-84	2.9	8
63	Synthesis and Properties of Branched Hydrogenated Nonasilanes and Decasilanes. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 8820-8828	5.1	8
62	Exploring superiority of silatranyl moiety as anchoring unit over its trialkoxysilyl analogue for covalent grafting via fabrication of functionalized mesoporous silica possessing azomethinic pincers for dye adsorption. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 273, 265-272	5.3	8
61	Synthesis of nanocrystalline aluminum-gallium nitride (Al <sub>x</sub> Ga <sub>1-x</sub> N; x = 0.1 to 0.5) with oxide precursors via ammonolysis. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 2350-2358	2.5	8

60	The Reactivity of Cyameluric Chloride C <sub>6</sub> N <sub>7</sub> Cl <sub>3</sub> towards Phosphines and Phosphine Oxides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2018</b> , 644, 121-126	1.3	8
59	Dithiocyanurates and thiocamelurates: Thermal thiyl radical generators as flame retardants in polypropylene. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 166, 17-30	4.7	7
58	Intrinsic flame resistance of polyurethane flexible foams: Unexpectedly low flammability without any flame retardant. <i>Fire and Materials</i> , <b>2018</b> , 42, 394-402	1.8	7
57	Etching Silicon with Aqueous Acidic Ozone Solutions: Reactivity Studies and Surface Investigations. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 22349-22357	3.8	7
56	Hybrid-coatings derived from pyromellitic acid bridged alkoxy-silylalkyl precursors. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 70, 191-202	2.3	7
55	Cyclopentasilane Si <sub>5</sub> H <sub>10</sub> : First single crystal X-ray structure of an oligosilane SixHy and thermal analysis with TG/MS. <i>Inorganic Chemistry Communication</i> , <b>2013</b> , 35, 92-95	3.1	7
54	Copper(II) Melonates Cu <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sub>2</sub> ·8H <sub>2</sub> O and [Cu(C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> ) <sub>2</sub> ] <sub>3</sub> [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sub>2</sub> ·4H <sub>2</sub> O Using the Terminal Cyano Group of the[C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sub>3</sub> <sup>-</sup> Ion for Complexation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2011</b> , 637, 2246-2251	1.3	7
53	Sol-gel derived Si/C/O/N-materials: molecular model compounds, xerogels and porous ceramics. <i>Applied Organometallic Chemistry</i> , <b>2011</b> , 25, 735-747	3.1	7
52	Molecular Chemical Concepts for the Synthesis of Novel Ceramics. <i>Key Engineering Materials</i> , <b>2003</b> , 247, 121-128	0.4	7
51	Entrapment and growth of Chlamydomonas reinhardtii in biocompatible silica hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 173, 233-241	6	7
50	Thermal conductivity of filled sol-gel-derived hybrid materials. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131,	2.9	6
49	Insertion of phenyl isocyanate into mono- and diaminosilanes. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2017</b> , 72, 909-921	1	6
48	Thermal expansion study of spinel-sialon. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 2163-2169	6	6
47	Binäre Stickstoffverbindungen der Hauptgruppenelemente durch Hochdrucksynthesen. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 81-86	3.6	6
46	Spinell-Sialone. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 804-808	3.6	6
45	Shock synthesis of Sr <sub>2</sub> Si <sub>5</sub> N <sub>8</sub> :Eu <sup>2+</sup> phosphor. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 784, 1270-1275	5.7	6
44	Sulfides and Disulfides of s-Triazine: Potential Thermal Thiyl Radical Generators. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 13596-13606	4.8	6
43	A stannatrane-like [4.4.4.0 1,6 ] heterotricyclic stannate anion possessing rhodanide antennae: A chromoreactand for Fe <sup>3+</sup> , Cu <sup>2+</sup> and Co <sup>2+</sup> ions. <i>Inorganica Chimica Acta</i> , <b>2017</b> , 463, 54-60	2.7	5

42	Synthesis of transparent aminosilane-derived silica based networks for entrapment of sensitive materials. <i>Chemical Communications</i> , <b>2013</b> , 49, 10163-5	5.8	5
41	Silicon nano particles: Surface characterization, defects and electronic properties. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 959-962	1.3	5
40	Crystal structure, phase transition and properties of indium(III) sulfide. <i>Dalton Transactions</i> , <b>2020</b> , 49, 15903-15913	4.3	5
39	Synthesis of Large Rare Earth Element Germanate Pyrochlore Single Crystals at High Pressure. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 5538-5543	3.5	4
38	Lactamomethylsilanes Synthesis, Structures, and Reactivity towards CO <sub>2</sub> and Phenylisocyanate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2019</b> , 645, 377-387	1.3	4
37	On The Mechanism of the Anisotropic Dissolution of Silicon in Chlorine Containing Hydrofluoric Acid Solutions. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H3045-H3050	3.9	4
36	High-pressure high-temperature behavior of polymer derived amorphous B-C-N. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 500, 182004	0.3	4
35	Silver Melonates and Coordination Modes of the Multidentate [C <sub>6</sub> N <sub>7</sub> (NCN) <sub>3</sub> ] <sub>3</sub> <sup>-</sup> Anion. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 978-986	2.3	4
34	Properties of Shock-Synthesized Rocksalt-Aluminium Nitride. <i>Ceramic Transactions</i> , <b>2012</b> , 305-311	0.1	4
33	Polysilazane-induced aggregation of hydrophobic silver colloids. <i>Langmuir</i> , <b>2008</b> , 24, 10709-16	4	4
32	Synthesis of Carbon-Rich Hybrid Foam from GAP-Modified Polyurethane. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2008</b> , 33, 373-380	1.7	4
31	3,5-Dimethylpyrazolyl-Substituted Di- and Trisiloxanes. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4207-4215	2.3	4
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29	Structural Insight into Layered Silicon Hydrogen Phosphates Containing [SiO <sub>6</sub> ] Octahedra Prepared by Different Reaction Routes. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 828-836	2.3	3
28	Five- and six-fold coordinated silicon in silicodiphosphonates: short range order investigation by solid-state NMR spectroscopy. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4613-4620	3.6	3
27	Synthesis of Thiocynameluric Acid C N S H , Its Reaction to Alkali Metal Thiocynamelurates and Organic Tris(dithio)cymelurates. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 15555-15564	4.8	3
26	gt-C <sub>3</sub> N <sub>4</sub> Has erste stabile binäre Kohlenstoff(IV)-nitrid. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 11314-11316	3.6	3
25	Synthesis and Characterization of Novel Titanium, Germanium, and Tin Silazane Complexes Bearing a Cyclohexasilazanetriido Ligand. <i>European Journal of Inorganic Chemistry</i> , <b>2007</b> , 2007, 1086-1090	2.3	3

24	CO Capture with Silylated Ethanolamines and Piperazines. <i>ChemistryOpen</i> , <b>2020</b> , 9, 894-902	2.3	3
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21	Novel Silyl-Carbodiimide Gels for the Preparation of Si/C/(N) Ceramics	812-817	3
20	Etching SiC-slurry and diamond wire-sawn silicon wafers with HF-HCl-Cl2 mixtures: Parameter influences on etch rates and surface structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1700152	1.6	2
19	Synthesis, spectroscopic characterization, and X-ray crystal structure of tris(trimethylsilyl)cyanurate. <i>Journal of Coordination Chemistry</i> , <b>2009</b> , 62, 1278-1284	1.6	2
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9	Unexpected Formation of the Highly Symmetric Borate Ion [B(SiCl3)4] <sup>2-</sup> <i>European Journal of Inorganic Chemistry</i> , <b>2021</b> , 2021, 2583-2594	2.3	1
8	[SiSxHy] <sub>n</sub> Perhydridopolysilathianes: Cross-Linked Thio Analogues of Polysiloxanes. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4557-4560	2.3	1
7	New cyclic and spirocyclic aminosilanes. <i>Main Group Metal Chemistry</i> , <b>2021</b> , 44, 51-72	1.6	1

## LIST OF PUBLICATIONS

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 6 | A new aspect of the $\beta$ -pseudo water concept of bis(trimethylsilyl)carbodiimide $\beta$ -pseudohydrates of aluminum. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2018</b> , 73, 911-918 | 1   | 1 |
| 5 | Wafer Cleaning, Etching, and Texturization <b>2019</b> , 311-358                                                                                                                                                                     | 0   |   |
| 4 | Syntheses and molecular structures of some di(amidino)monosilanes. <i>Main Group Metal Chemistry</i> , <b>2021</b> , 44, 228-238                                                                                                     | 1.6 | 0 |
| 3 | Disilanes with Pentacoordinate Si Atoms by Carbon Dioxide Insertion into Aminodisilanes: Syntheses, Molecular Structures, and Dynamic Behavior.. <i>ACS Omega</i> , <b>2022</b> , 7, 9527-9536                                       | 3.9 | 0 |
| 2 | Wafer Cleaning, Etching, and Texturization <b>2019</b> , 1-48                                                                                                                                                                        |     |   |
| 1 | Convenient two step synthesis of Si labelled tetraalkoxysilanes. <i>Chemical Communications</i> , <b>2020</b> , 56, 13631-13633                                                                                                      | 5.8 |   |