

Peter Kroll

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

5,032
citations

36
h-index

69
g-index

157
ext. papers

5,432
ext. citations

5.7
avg. IF

5.69
L-index

#	Paper	IF	Citations
139	Computing the iron–nitrogen phase diagram at high pressure and high temperature. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163533	5.7	3
138	Cost-effective carbonized waste corrugated boards with surface decorated by SiC@C nanofibers and nanospheres for electromagnetic interference shielding. <i>Applied Surface Science</i> , 2022 , 590, 153151	6.7	
137	Polymer-Derived Ultra-High Temperature Ceramics (UHTCs) and Related Materials. <i>PoliTO Springer Series</i> , 2021 , 281-323	0.4	0
136	Differential hysteresis scanning of non-templated monomodal amorphous aerogels. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 5422-5430	3.6	2
135	Discovery of Ternary Silicon Titanium Nitride with Spinel-Type Structure. <i>Scientific Reports</i> , 2020 , 10, 7372	4.9	5
134	A Novel High-Pressure Tin Oxynitride Sn N O. <i>Chemistry - A European Journal</i> , 2020 , 26, 2187-2194	4.8	8
133	Novel Sulfur-Containing Cross-Linking Agent for Si-Based Pre ceramic Polymers. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 1900380	2.6	1
132	Combined Tumor Environment Triggered Self-Assembling Peptide Nanofibers and Inducible Multivalent Ligand Display for Cancer Cell Targeting with Enhanced Sensitivity and Specificity. <i>Small</i> , 2020 , 16, e2002780	11	5
131	SnCN ₂ : A Carbodiimide with an Innovative Approach for Energy Storage Systems and Phosphors in Modern LED Technology. <i>ChemElectroChem</i> , 2020 , 7, 4550-4561	4.3	7
130	Computing the Tantalum–Nitrogen Phase Diagram at High Pressure and High Temperature. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22221-22227	3.8	3
129	Simulation of Vacuum Ultraviolet Absorption Spectra: Paraffin, Isoparaffin, Olefin, Naphthene, and Aromatic Hydrocarbon Class Compounds. <i>Applied Spectroscopy</i> , 2020 , 74, 72-80	3.1	7
128	Paving the way for cristobalite TiO ₂ and GeO ₂ attainable under moderate tensile stress: A DFT study of transformation paths and activation barriers in cristobalite-rutile transformations of MO ₂ (M = Si, Ge, Ti). <i>Computational Materials Science</i> , 2019 , 170, 109170	3.2	
127	Structural Insight into Layered Silicon Hydrogen Phosphates Containing [SiO ₆] Octahedra Prepared by Different Reaction Routes. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 828-836	2.3	3
126	Metal-catalyst-free access to multiwalled carbon nanotubes/silica nanocomposites (MWCNT/SiO) from a single-source precursor. <i>Dalton Transactions</i> , 2019 , 48, 11018-11033	4.3	9
125	Reactive Force Field for Simulations of the Pyrolysis of Polysiloxanes into Silicon Oxycarbide Ceramics. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16804-16812	3.8	10
124	Polymer-Derived Ultra-High Temperature Ceramics (UHTCs) and Related Materials. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900269	3.5	47
123	Chemical Potential of Nitrogen at High Pressure and High Temperature: Application to Nitrogen and Nitrogen-Rich Phase Diagram Calculations. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7054-7060	3.8	17

122	Vacuum ultraviolet absorbance of alkanes: an experimental and theoretical investigation. <i>Structural Chemistry</i> , 2019 , 30, 2217-2224	1.8	12
121	Self-Assembled Peptide Nanofibers Display Natural Antimicrobial Peptides to Selectively Kill Bacteria without Compromising Cytocompatibility. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28681-28689	9.5	38
120	Computational study of impact of composition, density, and temperature on thermal conductivity of amorphous silicon boron nitride. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3489-3497	3.8	2
119	Modeling amorphous silicon nitride: A comparative study of empirical potentials. <i>Computational Materials Science</i> , 2018 , 148, 165-175	3.2	8
118	Towards Porous Silicon Oxycarbide Materials: Effects of Solvents on Microstructural Features of Poly(methylhydrosiloxane)/Divinylbenzene Aerogels. <i>Materials</i> , 2018 , 11,	3.5	5
117	Si NMR Chemical Shifts in Crystalline and Amorphous Silicon Nitrides. <i>Materials</i> , 2018 , 11,	3.5	4
116	Determination of the interconversion energy barrier of three novel pentahelicene derivative enantiomers by dynamic high resolution liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1051, 60-67	3.2	2
115	Resolution of isomeric new designer stimulants using gas chromatography - Vacuum ultraviolet spectroscopy and theoretical computations. <i>Analytica Chimica Acta</i> , 2017 , 971, 55-67	6.6	53
114	First principles modeling and simulation of Zr-Si-B-C-N ceramics: Developing hard and oxidation resistant coatings. <i>Acta Materialia</i> , 2017 , 125, 246-254	8.4	6
113	Impact of Transition Metal Cations on the ²⁹ Si NMR Signal in Metal Oxide Glasses: A DFT Case Study of Hafnia Silica Glass. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24152-24158	3.8	3
112	Superhard Materials 2017 , 175-200		3
111	Analysis and deconvolution of dimethylnaphthalene isomers using gas chromatography vacuum ultraviolet spectroscopy and theoretical computations. <i>Analytica Chimica Acta</i> , 2016 , 945, 1-8	6.6	49
110	Gold(I) Complexes [N{(C3F7)C(Dipp)N}2]AuL (L = Ethylene, tert-Butyl Isocyanide, Tetrahydrothiophene, Triphenylphosphine) and Different Triazapentadienyl Ligand Coordination Modes. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 5435-5444	2.3	1
109	Compositional and Structural Atomistic Study of Amorphous SiBN Networks of Interest for High-Performance Coatings. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24346-24353	3.8	10
108	Structure and thermodynamic properties of hafnia-silica glasses with low hafnia content. <i>Journal of Non-Crystalline Solids</i> , 2015 , 416, 14-20	3.9	
107	High-Pressure Synthesis of Novel Boron Oxynitride B6N4O3 with Sphalerite Type Structure. <i>Chemistry of Materials</i> , 2015 , 27, 5907-5914	9.6	15
106	Kinetic control in the synthesis of metastable polymorphs: Bixbyite-to-Rh2O3(II)-to-corundum transition in In2O3. <i>Journal of Solid State Chemistry</i> , 2015 , 229, 278-286	3.3	9
105	Amorphous Ge quantum dots embedded in crystalline Si: ab initio results. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 405302	1.8	7

104	Vacuum ultraviolet detector for gas chromatography. <i>Analytical Chemistry</i> , 2014 , 86, 8329-35	7.8	102
103	Silicon monoxide at 1 atm and elevated pressures: crystalline or amorphous?. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3410-23	16.4	20
102	Modeling Amorphous Ceramic Structures 2014 , 39-69		
101	First-Principles Calculations and Analysis of ²⁹ Si Nuclear Magnetic Resonance Chemical Shifts in Silicon Oxycarbide Ceramics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29952-29961	3.8	11
100	Ab initio and FTIR Studies of HfSiCNO Processed from the Polymer Route. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 742-749	3.8	9
99	National Hypersonic Science Center for Materials and Structures 2014 ,		3
98	Fabrication of SiC quantum dots by photo-assisted electrochemical corrosion of bulk powders. <i>Electrochemistry Communications</i> , 2013 , 37, 1-4	5.1	9
97	In situ high pressure high temperature experiments in multi-anvil assemblies with bixbyite-type In ₂ O ₃ and synthesis of corundum-type and orthorhombic In ₂ O ₃ polymorphs. <i>High Pressure Research</i> , 2013 , 33, 697-711	1.6	16
96	Orthorhombic In ₂ O ₃ : a metastable polymorph of indium sesquioxide. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6531-5	16.4	40
95	Nitrogen-rich transition metal nitrides. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 2063-2072	23.2	87
94	Orthorhombisches In ₂ O ₃ – ein metastabiles Indiumsesequioxid- Polymorph. <i>Angewandte Chemie</i> , 2013 , 125, 6659-6663	3.6	2
93	Influence of separation of Si nanocrystals embedded in a SiO ₂ matrix on electronic and optical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 1098-1102	3.1	4
92	Isotropic Negative Thermal Expansion in Si(NCN) ₂ and Its Origin. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 526-531	3.8	19
91	Tunneling of electrons between Si nanocrystals embedded in a SiO ₂ matrix. <i>Physical Review B</i> , 2012 , 86,	3.3	26
90	Structural, Electronic and Optical Properties of SiC Quantum Dots. <i>Journal of Nano Research</i> , 2012 , 18-19, 77-87	1	2
89	Modeling Amorphous Ceramic Structures 2011 , 39-69		
88	Isolable, gold carbonyl complexes supported by N-heterocyclic carbenes. <i>Chemical Communications</i> , 2011 , 47, 4478-80	5.8	46
87	Tracing Reversible and Irreversible Li Insertion in SiCO Ceramics with Modeling and Ab-Initio Simulations. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1313, 70701		14

86	Band alignment at a nonplanar Si/SiO ₂ interface. <i>Physical Review B</i> , 2010 , 82,	3.3	28
85	Electronic structure and interfacial properties of Ge nanoclusters embedded in amorphous silica. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2448-2453	3.9	10
84	Compressing the most hydrogen-rich inorganic ion. <i>Journal of the American Chemical Society</i> , 2010 , 132, 748-55	16.4	22
83	Searching insight into the atomistic structure of SiCO ceramics. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10528		46
82	Study of complexation between cyclofructans and alkali metal cations by electrospray ionization mass spectrometry and density functional theory calculations. <i>International Journal of Mass Spectrometry</i> , 2010 , 291, 118-124	1.9	22
81	Doping-induced modulation of electrical and optical properties of silicon nitride. <i>Thin Solid Films</i> , 2010 , 518, 4918-4922	2.2	4
80	New structural insight for antimony(III)-tartrate. <i>Inorganic Chemistry Communication</i> , 2010 , 13, 1504-1508.1		6
79	Comparative analysis of electronic structure and optical properties of crystalline and amorphous silicon nitrides. <i>Journal of Applied Physics</i> , 2009 , 106, 053717	2.5	13
78	High-pressure phases and transitions of the layered alkaline earth nitridosilicates SrSiN(2) and BaSiN(2). <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 275408	1.8	9
77	Influence of SiO ₂ matrix on electronic and optical properties of Si nanocrystals. <i>Nanotechnology</i> , 2009 , 20, 135702	3.4	57
76	Group II element nitrides M ₃ N ₂ under pressure: a comparative density functional study. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1604-1613	1.3	19
75	Magnetism in strained pseudomorphic ultrathin films of fcc 3d-transition metals (Cr, Mn, Fe, Co and Ni) with lateral lattice parameters of bulk fcc-Cu(001). <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2827-2832	2.8	9
74	First-Principles Nuclear Magnetic Resonance Structural Analysis of Vitreous Silica. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7917-7929	3.8	68
73	Monomeric copper(I), silver(I), and gold(I) alkyne complexes and the coinage metal family group trends. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11249-55	16.4	103
72	Gold(I) chloride coordinated 3-hexyne. <i>Inorganic Chemistry</i> , 2009 , 48, 423-5	5.1	54
71	First principles study of C ₃ N ₄ carbon nitride nanotubes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3020		46
70	Magnetism in graphene due to single-atom defects: dependence on the concentration and packing geometry of defects. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 196002	1.8	84
69	Corrugated layered heptazine-based carbon nitride: the lowest energy modifications of C ₃ N ₄ ground state. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3013		101

68	A density functional study of the high-pressure chemistry of MSiN ₂ (M = Be, Mg, Ca): prediction of high-pressure phases and examination of pressure-induced decomposition. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 275407	1.8	12
67	Density Functional Study of Calcium Nitride: Refined Geometries and Prediction of High-Pressure Phases. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2943-2949	3.8	10
66	New Ceramic Phases in the Ternary Si-C-N System. <i>Key Engineering Materials</i> , 2008 , 403, 147-148	0.4	1
65	Advances in Computation of Temperature-Pressure Phase Diagrams of High-Pressure Nitrides. <i>Key Engineering Materials</i> , 2008 , 403, 77-80	0.4	7
64	Structural, electronic, and magnetic properties of 13-, 55-, and 147-atom clusters of Fe, Co, and Ni: A spin-polarized density functional study. <i>Physical Review B</i> , 2008 , 78,	3.3	64
63	Festkörperchemie 2007. <i>Nachrichten Aus Der Chemie</i> , 2008 , 56, 258-268	0.1	
62	Novel binary and ternary phases in the Si-C-N system. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 674-680	1	11
61	High-pressure high-temperature synthesis of novel binary and ternary nitride phases of group 4 and 14 elements. <i>Journal of Physics: Conference Series</i> , 2008 , 121, 062003	0.3	2
60	A Density Functional Study of Alkaline Earth Nitrides M ₃ N ₂ : Refined Geometries and High-Pressure Phases. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008 , 634, 2072-2072	1.3	
59	HP-Ca ₂ Si ₅ N ₈ - Density Functional Calculations. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008 , 634, 2073-2073	1.3	
58	Metastability of corundum-type In ₂ O ₃ . <i>Chemistry - A European Journal</i> , 2008 , 14, 3306-10	4.8	70
57	HP-Ca ₂ Si ₅ N ₈ --a new high-pressure nitridosilicate: synthesis, structure, luminescence, and DFT calculations. <i>Chemistry - A European Journal</i> , 2008 , 14, 7892-902	4.8	31
56	First-principles lattice dynamics calculations of the phase boundary between beta-Si ₃ N ₄ and gamma-Si ₃ N ₄ at elevated temperatures and pressures. <i>Journal of Computational Chemistry</i> , 2008 , 29, 2255-9	3.5	27
55	High-pressure high-temperature synthesis of Rh ₂ O ₃ -II-type In ₂ O ₃ polymorph. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 269-271	2.5	32
54	High-pressure synthesis of crystalline carbon nitride imide, C ₂ N ₂ (NH). <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1476-80	16.4	74
53	High-Pressure Synthesis of Crystalline Carbon Nitride Imide, C ₂ N ₂ (NH). <i>Angewandte Chemie</i> , 2007 , 119, 1498-1502	3.6	21
52	The Phase Boundary Between β-Si ₃ N ₄ and γ-Si ₃ N ₄ at Elevated Temperatures and Pressures. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1040, 1		
51	New Metal Nitride Compounds: Can they be Synthesized at High-Pressures?. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1040, 1		

- 50 Phase Transitions in Silicon-Carbon-Nitride Compounds. *Materials Research Society Symposia Proceedings*, **2007**, 1040, 1
- 49 Negative or Zero Thermal Expansion in Silicon Dicarbodiimide, Si(NCN)₂. *Materials Research Society Symposia Proceedings*, **2007**, 1040, 1
- 48 Non-planar Corrugated Layered Heptazine-based Carbon Nitride: The Lowest Energy Modifications of C₃N₄. *Materials Research Society Symposia Proceedings*, **2007**, 1040, 1
- 47 Nano-sized Crystals of Silicon Embedded in Silica Glass: Large Scale Models and Aspects of the Electronic Structure. *Materials Research Society Symposia Proceedings*, **2006**, 958, 1 5
- 46 Iron Nanoparticles Embedded in Silica Glass: A Computational Study. *Materials Research Society Symposia Proceedings*, **2006**, 959, 1
- 45 Computation of Temperature-Pressure Phase Diagrams of High-Pressure Nitrides. *Materials Research Society Symposia Proceedings*, **2006**, 987, 1
- 44 High-pressure chemistry of nitride-based materials. *Chemical Society Reviews*, **2006**, 35, 987-1014 58.5 185
- 43 Nano-sized crystals of silicon embedded in silica glass: large models and new aspects of the electronic structure. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2006**, 632, 2089-2089 1.3
- 42 Temperature Pressure Phase Diagrams of Binary Nitrides. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2006**, 632, 2127-2127 1.3
- 41 Shell-like structure of valence band orbitals of silicon nanocrystals in silica glass. *Physica Status Solidi (B): Basic Research*, **2006**, 243, R47-R49 1.3 27
- 40 Hard silicon carbonitride films obtained by RF-plasma-enhanced chemical vapour deposition using the single-source precursor bis(trimethylsilyl)carbodiimide. *Journal of the European Ceramic Society*, **2006**, 26, 1325-1335 6 43
- 39 Single-Crystals of a New Carbon Nitride Phase with all-sp³ Carbon. *Materials Research Society Symposia Proceedings*, **2006**, 987, 1
- 38 Modeling the free carbon phase in amorphous silicon oxycarbide. *Journal of Non-Crystalline Solids*, **2005**, 351, 1121-1126 3.9 34
- 37 A DFT study of amorphous silicon oxynitride. *Journal of Non-Crystalline Solids*, **2005**, 351, 1127-1132 3.9 19
- 36 Formation of spinel-type gallium oxynitrides: a density-functional study of binary and ternary phases in the system Ga₂O₃-N. *Journal of Materials Chemistry*, **2005**, 15, 3296 51
- 35 Modelling polymer-derived ceramics. *Journal of the European Ceramic Society*, **2005**, 25, 163-174 6 39
- 34 SrSi₆N₈--a reduced nitridosilicate with a Si-Si bond. *Angewandte Chemie - International Edition*, **2005**, 44, 567-70 16.4 35
- 33 Prediction of novel phases of tantalum(V) nitride and tungsten(VI) nitride that can be synthesized under high pressure and high temperature. *Angewandte Chemie - International Edition*, **2005**, 44, 4249-54 16.4 79

32	Synthesen bei hohem Druck und hoher Temperatur führen zu neuen Phasen von Tantal(V)-nitrid und Wolfram(VI)-nitrid. <i>Angewandte Chemie</i> , 2005 , 117, 4321-4326	3.6	6
31	Spinel-type gallium oxynitrides attainable at high pressure and high temperature. <i>Physical Review B</i> , 2005 , 72,	3.3	23
30	Assessment of the HfN _x , ZrN _x and TiN _x phase diagrams at high pressures and temperatures: balancing between MN and M ₃ N ₄ (M = Hf, Zr, Ti). <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S1235-S1244	1.8	38
29	Thinking about metal-metal quadruple bonding in extended structures: a hypothetical A ₂ M ₆ E ₈ network. <i>New Journal of Chemistry</i> , 2004 , 28, 185	3.6	3
28	A DFT study of the compressibility of amorphous silicon oxynitride. <i>Journal of Non-Crystalline Solids</i> , 2004 , 345-346, 720-723	3.9	6
27	Experimental and quantum-chemical studies on the thermochemical stabilities of mercury carbodiimide and mercury cyanamide. <i>ChemPhysChem</i> , 2003 , 4, 725-31	3.2	20
26	Experimental and Quantum-Chemical Studies on the Thermochemical Stabilities of Mercury Carbodiimide and Mercury Cyanamide. <i>ChemPhysChem</i> , 2003 , 4, 789-789	3.2	4
25	Pathways to metastable nitride structures. <i>Journal of Solid State Chemistry</i> , 2003 , 176, 530-537	3.3	62
24	Theoretical Investigation of the Solid State Reaction of Silicon Nitride and Silicon Dioxide forming Silicon Oxynitride (Si ₂ N ₂ O) under Pressure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003 , 629, 1737-1750	1.3	40
23	Chemical Reactivity of Tetrasulfur Tetranitride: Synthesis, Physical Properties, and Structural Characterization of the Amorphous Phase Cu ₇ S ₄ N ₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003 , 629, 1751-1759	1.3	0
22	Modelling and simulation of amorphous silicon oxycarbide. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1657		44
21	Melem (2,5,8-triamino-tri-s-triazine), an important intermediate during condensation of melamine rings to graphitic carbon nitride: synthesis, structure determination by X-ray powder diffractometry, solid-state NMR, and theoretical studies. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11333-11339	16.4	805
20	Hafnium nitride with thorium phosphide structure: physical properties and an assessment of the Hf-N, Zr-N, and Ti-N phase diagrams at high pressures and temperatures. <i>Physical Review Letters</i> , 2003 , 90, 125501	7.4	149
19	A density functional study of phosphorus nitride P ₃ N ₅ : refined geometries, properties, and relative stability of alpha-P ₃ N ₅ and gamma-P ₃ N ₅ and a further possible high-pressure phase delta-P ₃ N ₅ with kyanite-type structure. <i>Chemistry - A European Journal</i> , 2002 , 8, 3530-7	4.8	40
18	Tri-s-triazine derivatives. Part I. From trichloro-tri-s-triazine to graphitic C ₃ N ₄ structures. <i>New Journal of Chemistry</i> , 2002 , 26, 508-512	3.6	500
17	The Electronic Structure and other Properties of Amorphous Silicon Nitride Investigated with Density Functional Theory. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 715, 1011		3
16	A DFT-Study of Structure and properties of Amorphous SiCN. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 731, 321		1
15	First-Principles Simulation of Hydrogen Interaction in Amorphous Silicon Nitride. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 719, 8371		1

14	Synthesis, structure determination, and quantum-chemical characterization of an alternate HgNCN polymorph. <i>Inorganic Chemistry</i> , 2002 , 41, 4259-65	5.1	53
13	Base-Catalytic properties of Solid Silicon Imidonitriles. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 731, 591		2
12	Crystal Structure, Magnetic Properties, and Electronic Structure of Ni(NCNH ₂) ₄ Cl ₂ and Co(NCNH ₂) ₄ Cl ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001 , 627, 1682-1686	1.3	11
11	Post-Spinel Phases of Silicon Nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 226, R6-R7	1.3	28
10	Structure and reactivity of amorphous silicon nitride investigated with density-functional methods. <i>Journal of Non-Crystalline Solids</i> , 2001 , 293-295, 238-243	3.9	30
9	Post-Spinel Phases of Silicon Nitride 2001 , 226, R6		1
8	Silylated carbodiimides in molecular and extended structures. <i>Physical Review B</i> , 1999 , 60, 3126-3139	3.3	30
7	Synthesis of cubic silicon nitride. <i>Nature</i> , 1999 , 400, 340-342	50.4	549
6	Theoretical Tracing of a Novel Route from Molecular Precursors through Polymers to Dense, Hard C ₃ N ₄ Solids. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4696-4703	16.4	48
5	Silicon Boron Nitrides: Hypothetical Polymorphs of Si B N. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 2527-2530	16.4	26
4	Si and N K-XANES spectroscopic study of novel Si ₃ N ₄ ceramics. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998 , 96, 253-257	1.7	11
3	Inorganic Solid-State Chemistry with Main Group Element Carbodiimides. <i>Chemistry of Materials</i> , 1998 , 10, 2964-2979	9.6	120
2	XANES Studies at N and C K-Edge of Compounds in the Ternary System Si ₃ N ₄ . <i>Materials Research Society Symposia Proceedings</i> , 1996 , 437, 231		5
1	X-Ray Absorption at Si K-Edge for Novel Compounds in the Ternary System Si ₃ N ₄ . <i>Materials Research Society Symposia Proceedings</i> , 1996 , 437, 225		2