

Wolfgang Schnick

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#	Paper	IF	Citations
512	Narrow-band red-emitting Sr[LiAlN ₄]:Eu ²⁺ as a next-generation LED-phosphor material. <i>Nature Materials</i> , 2014 , 13, 891-6	27	987
511	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, 10288-300	16.4	805
510	A revolution in lighting. <i>Nature Materials</i> , 2015 , 14, 454-8	27	682
509	Unmasking melon by a complementary approach employing electron diffraction, solid-state NMR spectroscopy, and theoretical calculations-structural characterization of a carbon nitride polymer. <i>Chemistry - A European Journal</i> , 2007 , 13, 4969-80	4.8	638
508	Functional carbon nitride materials – design strategies for electrochemical devices. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	526
507	Color Point Tuning for (Sr,Ca,Ba)Si ₂ O ₂ N ₂ :Eu ²⁺ for White Light LEDs. <i>Chemistry of Materials</i> , 2009 , 21, 316-325	9.6	514
506	Highly efficient all-nitride phosphor-converted white light emitting diode. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 1727-1732	1.6	510
505	Luminescence in Eu ²⁺ -doped Ba ₂ Si ₅ N ₈ : fluorescence, thermoluminescence, and upconversion. <i>Journal of Physics and Chemistry of Solids</i> , 2000 , 61, 2001-2006	3.9	449
504	Triazine-based carbon nitrides for visible-light-driven hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2435-9	16.4	332
503	Nitridosilicates and oxonitridosilicates: from ceramic materials to structural and functional diversity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7754-75	16.4	275
502	Poly(triazine imide) with intercalation of lithium and chloride ions [(C ₃ N ₃) ₂ (NH(x)Li(1-x)) ₃ LiCl]: a crystalline 2D carbon nitride network. <i>Chemistry - A European Journal</i> , 2011 , 17, 3213-21	4.8	233
501	Nitrido-silicate. II [1]. Hochtemperatur-Synthesen und Kristallstrukturen von Sr ₂ Si ₅ N ₈ und Ba ₂ Si ₅ N ₈ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1995 , 621, 1380-1384	1.3	216
500	Toward New Phosphors for Application in Illumination-Grade White pc-LEDs: The Nitridomagnesosilicates Ca[Mg ₃ SiN ₄]:Ce ³⁺ , Sr[Mg ₃ SiN ₄]:Eu ²⁺ , and Eu[Mg ₃ SiN ₄]. <i>Chemistry of Materials</i> , 2014 , 26, 2712-2719	9.6	199
499	SrAlSi ₄ N ₇ :Eu ²⁺ – A Nitridoalumosilicate Phosphor for Warm White Light (pc)LEDs with Edge-Sharing Tetrahedra. <i>Chemistry of Materials</i> , 2009 , 21, 1595-1601	9.6	191
498	New light on an old story: formation of melam during thermal condensation of melamine. <i>Chemistry - A European Journal</i> , 2007 , 13, 4956-68	4.8	191
497	Solid-State Chemistry with Nonmetal Nitrides. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 806-818		182
496	From Triazines to Heptazines: Novel Nonmetal Tricyanomelaminates as Precursors for Graphitic Carbon Nitride Materials. <i>Chemistry of Materials</i> , 2006 , 18, 1891-1900	9.6	181

495	Ca[LiAl ₃ N ₄]:Eu ²⁺ A Narrow-Band Red-Emitting Nitridolithoaluminate. <i>Chemistry of Materials</i> , 2014 , 26, 3544-3549	9.6	169
494	Nitridosilicates-A Significant Extension of Silicate Chemistry. <i>Chemistry - A European Journal</i> , 1997 , 3, 679-683	4.8	158
493	Low Temperature Precursor Route for Highly Efficient Spherically Shaped LED-Phosphors M ₂ Si ₅ N ₈ :Eu ²⁺ (M = Eu, Sr, Ba). <i>Chemistry of Materials</i> , 2009 , 21, 336-342	9.6	140
492	One-Pot Synthesis of Single-Source Precursors for Nanocrystalline LED Phosphors M ₂ Si ₅ N ₈ :Eu ²⁺ (M = Sr, Ba). <i>Chemistry of Materials</i> , 2009 , 21, 2467-2473	9.6	126
491	Nitrido-Silicate. I. Hochtemperatur-Synthese und Kristallstruktur von Ca ₂ Si ₅ N ₈ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1995 , 621, 1037-1041	1.3	124
490	Real structure of SrSi ₂ O ₂ N ₂ . <i>Solid State Sciences</i> , 2007 , 9, 205-212	3.4	121
489	Syntheses, crystal structures, and vibrational spectroscopic properties of MgCN ₂ , SrCN ₂ , and BaCN ₂ . <i>Journal of Alloys and Compounds</i> , 1994 , 206, 179-184	5.7	115
488	Group (III) Nitrides M[Mg ₂ Al ₂ N ₄] (M = Ca, Sr, Ba, Eu) and Ba[Mg ₂ Ga ₂ N ₄] Structural Relation and Nontypical Luminescence Properties of Eu ²⁺ Doped Samples. <i>Chemistry of Materials</i> , 2014 , 26, 6113-6119	9.6	112
487	Structure elucidation of BaSi ₂ O ₂ N ₂ A host lattice for rare-earth doped luminescent materials in phosphor-converted (pc)-LEDs. <i>Solid State Sciences</i> , 2009 , 11, 537-543	3.4	111
486	Ca[Si ₂ O ₂ N ₂]-a novel layer silicate. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5540-2	16.4	111
485	High temperature syntheses of novel nitrido- and oxonitrido-silicates and sialons using rf furnaces. <i>Journal of Materials Chemistry</i> , 1999 , 9, 289-296		107
484	Luminescence tuning of MOFs via ligand to metal and metal to metal energy transfer by co-doping of 2[Gd ₂ Cl ₆ (bipy) ₃]·2bipy with europium and terbium. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10179		101
483	Melamine-melem adduct phases: investigating the thermal condensation of melamine. <i>Chemistry - A European Journal</i> , 2009 , 15, 13161-70	4.8	97
482	Nitridosilicate und Oxonitridosilicate: von keramischen Materialien zu struktureller und funktioneller Diversität. <i>Angewandte Chemie</i> , 2011 , 123, 7898-7920	3.6	95
481	Synthesis and Crystal Structure of Phosphorus(V) Nitride P ₃ N ₅ . <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1873-1875		95
480	Festkörperchemie mit Nichtmetallnitriden. <i>Angewandte Chemie</i> , 1993 , 105, 846-858	3.6	95
479	Edge-sharing SiN ₄ Tetrahedra in the Highly Condensed Nitridosilicate BaSi ₇ N ₁₀ . <i>Chemistry - A European Journal</i> , 1997 , 3, 249-52	4.8	90
478	Thermal Conversion of Guanylurea Dicyanamide into Graphitic Carbon Nitride via Prototype CN _x Precursors. <i>Chemistry of Materials</i> , 2005 , 17, 3976-3982	9.6	89

- 477 Narrow-Band Green Emitting Nitridolithoalumosilicate Ba[Li₂(Al₂Si₂)N₆]:Eu²⁺ with Framework Topology whj for LED/LCD-Backlighting Applications. *Chemistry of Materials*, **2015**, 27, 6109-6115 9.6 88
- 476 Structure elucidation of polyheptazine imide by electron diffraction--a templated 2D carbon nitride network. *Chemical Communications*, **2009**, 1541-3 5.8 88
- 475 Material properties and structural characterization of M₃Si₆O₁₂N₂:Eu²⁺ (M = Ba, Sr)--a comprehensive study on a promising green phosphor for pc-LEDs. *Chemistry - A European Journal*, **2010**, 16, 9646-57 4.8 88
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- 473 High-Pressure Synthesis of β -N at 11 GPa and 1500 °C in a Multianvil Assembly: A Binary Phosphorus(V) Nitride with a Three-Dimensional Network Structure from PN Tetrahedra and Tetragonal PN Pyramids. *Angewandte Chemie - International Edition*, **2001**, 40, 2643-2645 16.4 82
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- 469 Trimerization of NaC₂N₃ to Na₃C₆N₉ in the solid: ab initio crystal structure determination of two polymorphs of NaC₂N₃ and of Na₃C₆N₉ from X-ray powder diffractometry. *Inorganic Chemistry*, **2000**, 39, 665-70 5.1 72
- 468 Phosphorus Nitride P₃N₅: Synthesis, Spectroscopic, and Electron Microscopic Investigations. *Chemistry of Materials*, **1996**, 8, 281-286 9.6 70
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- 451 New Polymorph of the Highly Efficient LED-Phosphor SrSi2O2N2:Eu2+ [Polytypism of a Layered Oxonitridosilicate. *Chemistry of Materials*, **2013**, 25, 1852-1857 9.6 57
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- 448 Tackling the stacking disorder of melon--structure elucidation in a semicrystalline material. *Physical Chemistry Chemical Physics*, **2010**, 12, 2227-37 3.6 55
- 447 Ba2Nd7Si11N23. Nitridosilicate with a Zeolite-Analogous Si-N Structure. *Angewandte Chemie International Edition in English*, **1997**, 36, 2651-2652 55
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- 438 Hochdrucksynthese von P₃N₅ bei 11 GPa und 1500 °C in einer Multianvil-Apparatur: ein binäres Phosphor(V)-nitrid mit einer Raumnetzstruktur aus PN₄-Tetraedern und tetragonalen PN₅-Pyramiden. *Angewandte Chemie*, **2001**, 113, 2713-2716 3.6 50
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- 436 Syntheses, Vibrational Spectroscopy, and Crystal Structure Determination from X-Ray Powder Diffraction Data of Alkaline Earth Dicyanamides M[N(CN)₂]₂ with M=Mg, Ca, Sr, and Ba. *Journal of Solid State Chemistry*, **2001**, 157, 241-249 3.3 48
- 435 Trimerisierung von Dicyanamid-Ionen C₂N₃²⁻ im Festkörper Synthesen, Kristallstrukturen und Eigenschaften von NaCs₂(C₂N₃)₃ und Na₃C₆N₉ · 3 H₂O. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1998**, 624, 91-97 1.3 47
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- 433 BaYbSi₄N₇ Überraschende strukturelle Möglichkeiten in Nitridosilicaten. *Angewandte Chemie*, **1996**, 108, 2115-2116 3.6 47
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- 427 Ce₄. *Chemistry - A European Journal*, **2000**, 6, 2714-20 4.8 43
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423	A Nitridic Clathrate: P ₄ N ₄ (NH) ₄ (NH ₃). <i>Angewandte Chemie</i> , 2006 , 118, 4617-4620	3.6	42
422	Ca _{18.75} Li _{10.5} [Al ₃₉ N ₅₅]:Eu ²⁺ Supertetrahedron Phosphor for Solid-State Lighting. <i>Chemistry of Materials</i> , 2016 , 28, 1220-1226	9.6	41
421	Synthesis of alkaline earth diazenides M(AE)N ₂ (M(AE) = Ca, Sr, Ba) by controlled thermal decomposition of azides under high pressure. <i>Inorganic Chemistry</i> , 2012 , 51, 2366-73	5.1	41
420	Unexpected luminescence properties of Sr _{0.25} Ba _{0.75} Si ₂ O ₂ N ₂ :Eu(2+)—a narrow blue emitting oxonitridosilicate with cation ordering. <i>Chemistry - A European Journal</i> , 2012 , 18, 13446-52	4.8	41
419	Single-Crystal Structure Determination and Solid-State NMR Investigations of Lithium Nitridosilicate Li ₂ SiN ₂ Synthesized by a Precursor Approach Employing Amorphous Bi(CN) ₂ Cl <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 1579-1584	2.3	41
418	Mg ₂ PN ₃ und Ca ₂ PN ₃ [Phosphor(V)-nitride mit eindimensional unendlichen Ketten eckenverknüpfte PN ₄ -Tetraeder. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1997 , 623, 69-74	1.3	41
417	Li ₁₀ P ₄ N ₁₀ Lithium Phosphorus(V) Nitride Containing the New Complex Anion P ₄ N ₄ . <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 830-831		41
416	High-pressure synthesis of ultraincompressible hard rhenium nitride pernitride Re(N)(N) stable at ambient conditions. <i>Nature Communications</i> , 2019 , 10, 2994	17.4	40
415	Unprecedented zeolite-like framework topology constructed from cages with 3-rings in a barium oxonitridophosphate. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12069-78	16.4	40
414	Li ₂ CaSi ₂ N ₄ and Li ₂ SrSi ₂ N ₄ A Synthetic Approach to Three-Dimensional Lithium Nitridosilicates. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4945-4951	2.3	40
413	Zur Kenntnis der Kristallstruktur von Melem C ₆ N ₇ (NH ₂) ₃ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 238-242	1.3	40
412	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
411	Transformation of ammonium dicyanamide into dicyandiamide in the solid. <i>Inorganic Chemistry</i> , 2002 , 41, 4849-51	5.1	40
410	Shine a light with nitrides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, A113-A114	2.5	39
409	Phosphorus(V) Nitride Imide HP ₄ N ₇ : Synthesis from a Molecular Precursor and Structure Determination with Synchrotron Powder diffraction. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1992-1994		39
408	Synthese, Kristallstruktur und Eigenschaften eines neuen Sialons [SrSiAl ₂ O ₃ N ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1998 , 624, 1154-1158	1.3	39
407	Synthesis and Characterization of Tb[N(CN) ₂] ₃ ·2H ₂ O and Eu[N(CN) ₂] ₃ ·2H ₂ O: Two New Luminescent Rare-Earth Dicyanamides. <i>Chemistry of Materials</i> , 2006 , 18, 5738-5745	9.6	39
406	Li _x H _{12-2x} [P ₁₂ O _y N ₂₄]Cl _z Ein Oxonitridophosphat mit zeolithartiger Gerüststruktur aus Dreieringen. <i>Angewandte Chemie</i> , 2003 , 115, 3674-3677	3.6	39

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404	Li ₁₀ P ₄ N ₁₀ - ein Lithium-phosphor(v)-nitrid mit dem neuen komplexen Anion P ₄ N. <i>Angewandte Chemie</i> , 1991 , 103, 857-858	3.6	39
403	Crystal Structure and Nontypical Deep-Red Luminescence of Ca ₃ Mg[Li ₂ Si ₂ N ₆]:Eu ²⁺ . <i>Chemistry of Materials</i> , 2017 , 29, 3778-3784	9.6	38
402	Narrow-Band Yellow-Orange Emitting La ₃ Ca _{1.5} Si ₆ N ₁₁ :Eu ²⁺ (x D.77): A Promising Phosphor for Next-Generation Amber pLEDs. <i>Chemistry of Materials</i> , 2018 , 30, 3552-3558	9.6	37
401	Characterization of the thermally induced topochemical solid-state transformation of NH ₄ [N(CN) ₂] into NCN[double bond]C(NH ₂) ₂ by means of X-ray and neutron diffraction as well as Raman and solid-state NMR spectroscopy. <i>Inorganic Chemistry</i> , 2004 , 43, 895-904	5.1	37
400	High-pressure synthesis and X-ray powder structure determination of the nitridophosphate. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 135-141	3.3	37
399	High-temperature synthesis, single-crystal X-ray and neutron powder diffraction, and materials properties of Sr ₃ Ln ₁₀ Si ₁₈ Al ₁₂ O ₁₈ N ₃₆ (Ln = Ce, Pr, Nd) novel sialons with an ordered distribution of Si, Al, O, and N. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1357-1364		37
398	High-temperature synthesis, crystal structure, optical properties, and magnetism of the carbidnitridosilicates Ho ₂ [Si ₄ N ₆ C] and Tb ₂ [Si ₄ N ₆ C]. <i>Journal of Materials Chemistry</i> , 2001 , 11, 3300-3306		37
397	High-Temperature High-Pressure Synthesis of the Highly Condensed Nitridophosphates NaP ₄ N ₇ , KP ₄ N ₇ , RbP ₄ N ₇ , and CsP ₄ N ₇ and Their Crystal-Structure Determinations by X-ray Powder Diffraction. <i>Chemistry - A European Journal</i> , 1999 , 5, 2548-2553	4.8	37
396	Ce Si O N -An Oxonitridosilicate with Silicon Octahedrally Coordinated by Nitrogen. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 357-359	16.4	37
395	A high-pressure polymorph of phosphorus nitride imide. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2469-72	16.4	36
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