

Philipp Strobel

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Narrow-Band Green Emitting Nitridolithoalumosilicate Ba[Li ₂ (Al ₂ Si ₂)N ₆]:Eu ²⁺ with Framework Topology <i>whj</i> for LED/LCD-Backlighting Applications. <i>Chemistry of Materials</i> , 2015, 27, 6109-6115.	3.2	113
2	Nitridomagnesosilicate Ba[Mg ₃ SiN ₄]:Eu ²⁺ and Structure-Property Relations of Similar Narrow-Band Red Nitride Phosphors. <i>Chemistry of Materials</i> , 2015, 27, 1780-1785.	3.2	88
3	Ultra-Narrow-Band Blue-Emitting Oxoberyllates AELi ₂ [Be ₄ O ₆]:Eu ²⁺ (AE=Sr,Ba) Paving the Way to Efficient RGB pc-LEDs. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8739-8743.	7.2	87
4	Luminescence of the Narrow-Band Red Emitting Nitridomagnesosilicate Li ₂ (Ca _{1-x} Sr _x) ₂ [Mg ₂ Si ₂ N ₆] (<i>x</i> = 0-0.06). <i>Chemistry of Materials</i> , 2017, 29, 1377-1383.	3.2	86
5	Luminescence of an Oxonitridoberyllate: A Study of Narrow-Band Cyan-Emitting Sr[Be ₆ ON ₄]:Eu ²⁺ . <i>Chemistry of Materials</i> , 2018, 30, 3122-3130.	3.2	77
6	Direct Measurements of Energy Levels and Correlation with Thermal Quenching Behavior in Nitride Phosphors. <i>Chemistry of Materials</i> , 2017, 29, 7976-7983.	3.2	27
7	Unprecedented Deep-Red Ce ³⁺ Luminescence of the Nitridolithosilicates Li _{38.7} RE _{3.3} Ca _{5.7} [Li ₂ Si ₃₀ N ₅₉]O ₂₅ (<i>RE</i> = La, Ce, Y). <i>Chemistry of Materials</i> , 2018, 30, 5500-5506.	3.2	26
8	MBe ₂₀ N ₁₄ :Eu ²⁺ (M = Sr, Ba): Highly Condensed Nitridoberyllates with Exceptional Highly Energetic Eu ²⁺ Luminescence. <i>Chemistry of Materials</i> , 2019, 31, 3174-3182.	3.2	24
9	Nitridophosphate-Based Ultra-Narrow-Band Blue-Emitters: Luminescence Properties of <i>AE</i> P ₈ N ₁₄ :Eu ²⁺ (<i>AE</i> = Ca, Sr, Ba). <i>Chemistry - A European Journal</i> , 2020, 26, 7292-7298.	1.7	24
10	Ultra-Narrow-Band Blue-Emitting Oxoberyllates AELi ₂ [Be ₄ O ₆]:Eu ²⁺ (AE=Sr,Ba) Paving the Way to Efficient RGB pc-LEDs. <i>Angewandte Chemie</i> , 2018, 130, 8875-8879.	1.6	22
11	Illuminating Nitridoberyllaluminates: The Highly Efficient Red-Emitting Phosphor Sr ₂ [BeAl ₃ N ₅]:Eu ²⁺ . <i>Chemistry of Materials</i> , 2020, 32, 6611-6617.	3.2	21
12	Sr[BeSi ₂ N ₄]:Eu ²⁺ /Ce ³⁺ and Eu[BeSi ₂ N ₄]: Nontypical Luminescence in Highly Condensed Nitridoberyllsilicates. <i>Chemistry - A European Journal</i> , 2018, 24, 7243-7249.	1.7	20
13	Sr ₃ P ₃ N ₇ : Complementary Approach by Ammonothermal and High-Pressure Syntheses. <i>Chemistry - A European Journal</i> , 2020, 26, 6257-6263.	1.7	18
14	Understanding of Luminescence Properties Using Direct Measurements on Eu ²⁺ -Doped Wide Bandgap Phosphors. <i>Advanced Optical Materials</i> , 2020, 8, 2000504.	3.6	17
15	Designing Luminescent Materials and Band Gaps: A Soft X-ray Spectroscopy and Density Functional Theory Study of Li ₂ Ca ₂ [Mg ₂ Si ₂ N ₆]:Eu ²⁺ and Ba[Li ₂ (Al ₂ Si ₂)N ₆]:Eu ²⁺ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 14226-14231.	1.5	15
16	Energy levels of Eu ²⁺ states in the next-generation LED-phosphor SrLi ₂ Al ₂ O ₂ N ₂ :Eu ²⁺ . <i>Journal of Materials Chemistry C</i> , 2022, 10, 9740-9747.	2.7	13
17	Oxoberyllates SrBeO ₂ and Sr ₁₂ Be ₁₇ O ₂₉ as Novel Host Materials for Eu ²⁺ Luminescence. <i>Chemistry - A European Journal</i> , 2018, 24, 12678-12685.	1.7	11
18	Nitridic Analogs of Micas <i>AE</i> Si ₃ P ₄ N ₁₀ (NH) ₂ (<i>AE</i> = Mg, Mg _{0.94} Ca _{0.06} , Ca, Sr). <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114902.	7.2	11

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19	Ammonothermal Synthesis of Ba ₂ PO ₃ N – An Oxonitridophosphate with Non-Condensed PO ₃ N Tetrahedra. European Journal of Inorganic Chemistry, 2020, 2020, 841-846.	1.0	10
20	HIP to be Square: Simplifying Nitridophosphate Synthesis in a Hot Isostatic Press. Angewandte Chemie - International Edition, 2020, 59, 18240-18243.	7.2	9
21	HIP to be Square: Simplifying Nitridophosphate Synthesis in a Hot Isostatic Press. Angewandte Chemie, 2020, 132, 18397-18400.	1.6	8
22	Synthesis of Nitride Zeolites in a Hot Isostatic Press. Angewandte Chemie - International Edition, 2021, 60, 4470-4473.	7.2	6
23	Nitridic Analogs of Micas AESi ₃ P ₄ N ₁₀ (NH) ₂ (AE = Mg, Mg _{0.94} Ca _{0.06} , Ca, Sr). Angewandte Chemie, 2022, 134, e202114902.	1.6	4
24	Synthesis and Luminescence Properties of Amber Emitting La ₇ Sr[Si ₁₀ N ₁₉ O ₃] ²⁺ and Syntheses of the Substitutional Variants [RE ₈ AE _x [Si ₁₀ N ₂₀ O _{2+x}]] ²⁺ with RE=La, Ce; AE=Ca, Sr, Ba; 0 ≤ x ≤ 2. Chemistry - A European Journal, 2022, 28, .	1.7	3
25	Ab initio exploration and prediction of AE-containing nitrido(litho/magneso)tetrelates (AE = Ca,) TJ ETQq1 1 0.784314 rgBT /Over [Ge ₂ N ₆] ¹⁰⁺ units. Dalton Transactions, 2019, 48, 8671-8677.	1.6	2
26	Missing Member in the MIIIIISi ₄ N ₇ Compound Class: Carbothermal Reduction and Nitridation Synthesis Revealing Substitution of N by C and O in CaLu[Si ₄ N ₇] ^{2+x} C _x O _x :Eu ²⁺ /Ce ³⁺ (x ≤ 0.3). Chemistry - A European Journal, 2021, , .	1.7	2
27	Inverse-Tunable Red Luminescence and Electronic Properties of Nitridoberyllaluminates Sr ₂ Ba _x [BeAl ₃ N ₅]:Eu ²⁺ (x = 0, 2). Chemistry - A European Journal, 2022, 28, .	1.7	2
28	Detecting a Hierarchy of Deep-Level Defects in the Model Semiconductor ZnSiN ₂ . Journal of Physical Chemistry C, 2021, 125, 27959-27965.	1.5	2
29	Synthesis and Crystal Structure of the Strontium Beryllate Sr ₃ Be ₂ O ₅ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 103-105.	0.6	1
30	Synthesis of Nitride Zeolites in a Hot Isostatic Press. Angewandte Chemie, 2021, 133, 4520-4523.	1.6	0