

Takayuki Suehiro

List of Publications by Year in descending order

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47
papers

3,915
citations

185998

28
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44
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52
all docs

52
docs citations

52
times ranked

2106
citing authors

#	ARTICLE	IF	CITATIONS
1	Quaternary Wurtzitic Nitrides ($1-x$)ZnGeN ₂ xGaN ($x = 0.02, 0.05$): Disorder-Induced Band-Gap Narrowing and Potentiality as a Solar-Active Photocatalyst. <i>Inorganic Chemistry</i> , 2021, 60, 1542-1549.	1.9	1
2	Quaternary nitride system ($1-x$)ZnGeN ₂ xGaN ($x = 1/3$): disordered wurtzite structure revealed by time-of-flight neutron powder diffraction. <i>Applied Physics Express</i> , 2020, 13, 115503.	1.1	4
3	Constancy of the quadrupolar interaction product in nanocrystalline gallium nitride revealed by ⁷¹ Ga MAS NMR shift distribution. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 97, 25-30.	1.5	5
4	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. <i>Chemical Reviews</i> , 2018, 118, 1951-2009.	23.0	598
5	Nitride and oxynitride phosphors for white LEDs: Synthesis, new phosphor discovery, crystal structure. <i>Progress in Solid State Chemistry</i> , 2018, 51, 41-51.	3.9	95
6	Quaternary Wurtzitic Nitrides in the System ZnGeN ₂ xGaN: Powder Synthesis, Characterization, and Potentiality as a Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27590-27596.	1.5	17
7	Structure and luminescence of a novel orange-yellow-emitting Ca _{1.62} Eu _{0.38} Si ₅ O ₃ N ₆ phosphor for warm white LEDs, discovered by a single-particle-diagnosis approach. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9968-9975.	2.7	40
8	Low-energy Cathodoluminescence for (Oxy)Nitride Phosphors. <i>Journal of Visualized Experiments</i> , 2016, . .	0.2	2
9	Na ⁺ -GeGaON Solid Solution Analogous to [±] -SiAlON: Synthesis, Crystal Structure, and Potentiality as a Photocatalyst. <i>Inorganic Chemistry</i> , 2016, 55, 2355-2362.	1.9	6
10	Moisture-induced degradation and its mechanism of (Sr,Ca)AlSiN ₃ :Eu ²⁺ , a red-color-converter for solid state lighting. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3181-3188.	2.7	75
11	Europium(II)-activated oxonitridosilicate yellow phosphor with excellent quantum efficiency and thermal stability: a robust spectral conversion material for highly efficient and reliable white LEDs. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15797-15804.	1.3	17
12	Blue-Emitting Sr ₃ Si ₈ Al ₃ O ₇ N ₈ :Eu ²⁺ Discovered by a Single-Particle-Diagnosis Approach: Crystal Structure, Luminescence, Scale-Up Synthesis, and Its Abnormal Thermal Quenching Behavior. <i>Chemistry of Materials</i> , 2015, 27, 7689-7697.	3.2	63
13	Gas-Reduction Nitridation Synthesis of CaAlSiN ₃ :Eu ²⁺ Fine Powder Phosphors for Solid-State Lighting. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2713-2717.	1.8	56
14	A novel and high brightness AlN:Mn ²⁺ red phosphor for field emission displays. <i>Dalton Transactions</i> , 2014, 43, 6120.	1.6	55
15	A novel yellow-emitting SrAlSi ₄ N ₇ :Ce ³⁺ phosphor for solid state lighting: Synthesis, electronic structure and photoluminescence properties. <i>Journal of Solid State Chemistry</i> , 2013, 208, 50-57.	1.4	37
16	Facile Synthesis of (Sr,Ca) ₂ Si ₅ N ₈ :Eu ²⁺ -Based Red-Emitting Phosphor for Solid-State Lighting. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7453-7456.	1.8	50
17	Growth Temperature Influence on the Luminescence of Eu,Si-Codoped AlN Phosphors. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, R126-R130.	0.9	8
18	Local analysis of Eu ²⁺ emission in CaAlSiN ₃ . <i>Science and Technology of Advanced Materials</i> , 2013, 14, 064201.	2.8	18

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19	Preparation, crystal structure and photoluminescence of lithium magnesium manganese borate solid solutions, $\text{LiMg}_{1-x}\text{Mn}_x\text{BO}_3$. <i>Journal of Alloys and Compounds</i> , 2012, 512, 223-229.	2.8	10
20	One-Step Preparation of Blue-Emitting $(\text{La,Ca})\text{Si}_3(\text{O,N})_5:\text{Ce}^{3+}$ Phosphors for High-Color Rendering White Light-Emitting Diodes. <i>Applied Physics Express</i> , 2011, 4, 022101.	1.1	8
21	Synthesis and Photoluminescent Properties of $(\text{La,Ca})\text{Si}_3\text{Si}_6\text{N}_{11}:\text{Ce}^{3+}$ Fine Powder Phosphors for Solid-State Lighting. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 811-816.	4.0	127
22	Preparation, crystal structure and photoluminescence of Mn^{2+} -doped magnesium pyroborates solid solutions, $(\text{Mg}_{1-x}\text{Mn}_x)_2\text{B}_2\text{O}_5$. <i>Journal of Luminescence</i> , 2010, 130, 2161-2165.	1.5	16
23	Powder Synthesis of $\text{Y}^{\pm}\text{-SiAlON}$ and Its Potential as a Phosphor Host. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1337-1342.	1.5	32
24	Blue-emitting $\text{LaSi}_3\text{N}_5:\text{Ce}^{3+}$ fine powder phosphor for UV-converting white light-emitting diodes. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	107
25	One-step preparation of $\text{Ca}^{\pm}\text{-SiAlON}:\text{Eu}^{2+}$ fine powder phosphors for white light-emitting diodes. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	40
26	Phase Purity and Luminescence Properties of Fine $\text{Ca}^{\pm}\text{-SiAlON}:\text{Eu}$ Phosphors Synthesized by Gas Reduction Nitridation Method. <i>Journal of the Electrochemical Society</i> , 2008, 155, J175.	1.3	49
27	Luminescence properties of $(\text{Ca,Y})^{\pm}\text{-SiAlON}:\text{Eu}$ phosphors. <i>Materials Letters</i> , 2007, 61, 547-550.	1.3	46
28	Fine yellow $\text{Y}^{\pm}\text{-SiAlON}:\text{Eu}$ phosphors for white LEDs prepared by the gas-reduction nitridation method. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 601-606.	2.8	52
29	A Simple, Efficient Synthetic Route to $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ -Based Red Phosphors for White Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2006, 18, 5578-5583.	3.2	571
30	Optical properties of excitation spectra of $(\text{Ca,Y})^{\pm}\text{-SiAlON}:\text{Eu}$ yellow phosphors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2701-2704.	0.8	9
31	Fluorescence of Eu^{2+} in Strontium Oxonitridoaluminosilicates (SiAlONS). <i>Journal of the Ceramic Society of Japan</i> , 2005, 113, 462-465.	1.3	41
32	Strong Green Emission from $\text{Y}^{\pm}\text{-SiAlON}$ Activated by Divalent Ytterbium under Blue Light Irradiation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9490-9494.	1.2	138
33	Photoluminescence of Rare-Earth-Doped $\text{Ca}^{\pm}\text{-SiAlON}$ Phosphors: Composition and Concentration Dependence. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2883-2888.	1.9	77
34	Powder Synthesis of $\text{Ca}^{\pm}\text{-SiAlON}$ as a Host Material for Phosphors. <i>Chemistry of Materials</i> , 2005, 17, 308-314.	3.2	124
35	Characterization and properties of green-emitting $\text{Y}^{\pm}\text{-SiAlON}:\text{Eu}^{2+}$ powder phosphors for white light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 86, 211905.	1.5	656
36	Preparation of Lutetium Nitride by Direct Nitridation. <i>Journal of Materials Research</i> , 2004, 19, 959-963.	1.2	15

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37	Photoluminescence of Cerium-Doped $\hat{\pm}$ -SiAlON Materials. Journal of the American Ceramic Society, 2004, 87, 1368-1370.	1.9	96
38	Optical Properties of Eu^{2+} in $\hat{\pm}$ -SiAlON. Journal of Physical Chemistry B, 2004, 108, 12027-12031.	1.2	251
39	Warm-white light-emitting diode with yellowish orange SiAlON ceramic phosphor. Optics Letters, 2004, 29, 2001.	1.7	170
40	Crystal Structure of $\text{La}_4\text{Si}_2\text{O}_7\text{N}_2$ Analyzed by the Rietveld Method Using the Time-of-Flight Neutron Powder Diffraction Data.. ChemInform, 2003, 34, no.	0.1	0
41	Synthesis of Aluminum Nitride Nanopowder by Gas-Reduction-Nitridation Method. Journal of the American Ceramic Society, 2003, 86, 1046-1048.	1.9	44
42	Crystal Structure of $\text{La}_4\text{Si}_2\text{O}_7\text{N}_2$ Analyzed by the Rietveld Method Using the Time-of-Flight Neutron Powder Diffraction Data. Chemistry of Materials, 2003, 15, 1099-1104.	3.2	22
43	Synthesis and sintering properties of aluminium nitride nanopowder prepared by the gas-reduction-nitridation method. Nanotechnology, 2003, 14, 487-491.	1.3	32
44	Effect of Characteristics of Raw Material on Synthesis of AlN Fibers by Gas-Reduction-Nitridation.. Journal of the Ceramic Society of Japan, 2002, 110, 67-69.	1.3	2
45	Aluminum Nitride Fibers Synthesized from Alumina Fibers Using Gas-Reduction-Nitridation Method. Journal of the American Ceramic Society, 2002, 85, 715-717.	1.9	30
46	Effect of CaCO_3 - Y_2O_3 Addition on Synthesis of AlN Powder by Carbothermal Reduction-Nitridation of Al_2O_3 .. Journal of the Ceramic Society of Japan, 2001, 109, 1051-1054.	1.3	2
47	Oxidation of Rare Earth Silicon Oxynitride J-Phases. Key Engineering Materials, 0, 403, 57-59.	0.4	0