Naoto Hirosaki

List of Publications by Year
in descending order

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158 papers	11,121 citations	38660 50 h-index	30010 103 g-index
160 all docs	160 docs citations	160 times ranked	5054 citing authors

#	Article	IF	Citations
1	Silicon-based oxynitride and nitride phosphors for white LEDsâ€"A review. Science and Technology of Advanced Materials, 2007, 8, 588-600.	2.8	907
2	Luminescence Properties of a Red Phosphor, CaAlSiN[sub 3]:Eu[sup 2+], for White Light-Emitting Diodes. Electrochemical and Solid-State Letters, 2006, 9, H22.	2.2	806
3	Characterization and properties of green-emitting Î²-SiAlON:Eu2+ powder phosphors for white light-emitting diodes. Applied Physics Letters, 2005, 86, 211905.	1.5	656
4	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. Chemical Reviews, 2018, 118, 1951-2009.	23.0	598
5	Eu2+-doped Ca-Î±-SiAlON: A yellow phosphor for white light-emitting diodes. Applied Physics Letters, 2004, 84, 5404-5406.	1.5	581
6	2-phosphor-converted white light-emitting diodes using oxynitride/nitride phosphors. Applied Physics Letters, 2007, 90, 191101.	1.5	528
7	Ideal shear strain of metals and ceramics. Physical Review B, 2004, 70, .	1.1	334
8	Structure evolution and photoluminescence of Lu₃(Al,Mg)₂(Al,Si)₃O₁₂:Ce³⁺ phosphors: new yellow-color converters for blue LED-driven solid state lighting. Journal of Materials Chemistry C, 2016, 4, 6855-6863.	2.7	271
9	Optical Properties of Eu2+ in Î±-SiAlON. Journal of Physical Chemistry B, 2004, 108, 12027-12031.	1.2	251
10	Achieving High Quantum Efficiency Narrow-Band Î²-Sialon:Eu²⁺ Phosphors for High-Brightness LCD Backlights by Reducing the Eu³⁺ Luminescence Killer. Chemistry of Materials, 2018, 30, 494-505.	3.2	250
11	Rare-Earth Activated Nitride Phosphors: Synthesis, Luminescence and Applications. Materials, 2010, 3, 3777-3793.	1.3	248
12	Extrahigh color rendering white light-emitting diode lamps using oxynitride and nitride phosphors excited by blue light-emitting diode. Applied Physics Letters, 2007, 90, 051109.	1.5	243
13	Color Conversion Materials for Highâ€Brightness Laserâ€Driven Solidâ€State Lighting. Laser and Photonics Reviews, 2018, 12, 1800173.	4.4	239
14	Al₂O₃â€"YAG:Ce composite phosphor ceramic: a thermally robust and efficient color converter for solid state laser lighting. Journal of Materials Chemistry C, 2016, 4, 8648-8654.	2.7	206
15	Unique Color Converter Architecture Enabling Phosphor-in-Glass (PiG) Films Suitable for High-Power and High-Luminance Laser-Driven White Lighting. ACS Applied Materials & Interfaces, 2018, 10, 14930-14940.	4.0	177
16	Warm-white light-emitting diode with yellowish orange SiAlON ceramic phosphor. Optics Letters, 2004, 29, 2001.	1.7	170
17	Narrow-Band Green-Emitting Phosphor Ba₂LiSi₇AlN₁₂:Eu²⁺ with High Thermal Stability Discovered by a Single Particle Diagnosis Approach. Chemistry of Materials, 2015, 27, 5892-5898.	3.2	166
18	Trap Depth Engineering of SrSi₂O₂N₂:Ln²⁺,Ln³⁺ (Ln²⁺ =) Tj ETQq0 0 0 rgBT /Overl Applications. ACS Applied Materials & Interfaces, 2018, 10, 1854-1864.	4.0	159

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19	Achieving Multicolor Long-Lived Luminescence in Dye-Encapsulated Metalâ€“Organic Frameworks and Its Application to Anticounterfeiting Stamps. ACS Applied Materials & Interfaces, 2018, 10, 1802-1809.	4.0	151
20	Direct observation of single dopant atom in light-emitting phosphor of Î²-SiAlON:Eu2+. Applied Physics Letters, 2009, 94, .	1.5	147
21	Powder Synthesis of Ca-Î±â€˜-SiAlON as a Host Material for Phosphors. Chemistry of Materials, 2005, 17, 308-314.	3.2	124
22	Discovery of New Nitridosilicate Phosphors for Solid State Lighting by the Single-Particle-Diagnosis Approach. Chemistry of Materials, 2014, 26, 4280-4288.	3.2	116
23	Î²-Sialon:Eu phosphor-in-glass: a robust green color converter for high power blue laser lighting. Journal of Materials Chemistry C, 2015, 3, 10761-10766.	2.7	115
24	CaAlSiN₃:Eu²⁺ translucent ceramic: a promising robust and efficient red color converter for solid state laser displays and lighting. Journal of Materials Chemistry C, 2016, 4, 8197-8205.	2.7	115
25	Blue-emitting LaSi3N5:Ce3+ fine powder phosphor for UV-converting white light-emitting diodes. Applied Physics Letters, 2009, 95, .	1.5	107
26	Extra-Broad Band Orange-Emitting Ce³⁺-Doped Y₃Si₅N₉O Phosphor for Solid-State Lighting: Electronic, Crystal Structures and Luminescence Properties. Chemistry of Materials, 2016, 28, 4829-4839.	3.2	105
27	A robust red-emitting phosphor-in-glass (PiG) for use in white lighting sources pumped by blue laser diodes. Journal of Alloys and Compounds, 2017, 702, 193-198.	2.8	97
28	Photoluminescence of Cerium-Doped Î±-SiAlON Materials. Journal of the American Ceramic Society, 2004, 87, 1368-1370.	1.9	96
29	Unique Design Strategy for Laserâ€Driven Color Converters Enabling Superhighâ€Luminance and Highâ€Directionality White Light. Laser and Photonics Reviews, 2019, 13, 1900147.	4.4	93
30	Nitrogen Gas Pressure Synthesis and Photoluminescent Properties of Orangeâ€Red SrAlSi₄N₇:Eu²⁺ Phosphors for White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2011, 94, 536-542.	1.9	91
31	Synthesis and Luminescence Properties of Orangeâ€“Redâ€Emitting M₂Si₅N₈:Eu²⁺ (M=Ca, Sr, Ba) Lightâ€Emitting Diode Conversion Phosphors by a Simple Nitridation of MSi₂. International Journal of Applied Ceramic Technology, 2009, 6, 459-464.	1.1	87
32	Blue emission of Ce3+ in lanthanide silicon oxynitride phosphors. Journal of Materials Research, 2007, 22, 1933-1941.	1.2	86
33	New garnet structure phosphors, Lu_{3â€“x}Y_xMgAl₃SiO₁₂:Ce³⁺ (x = 0â€“3), developed by solid solution design. Journal of Materials Chemistry C, 2016, 4, 2359-2366.	2.7	86
34	New Strategies for Preparing NanoSized Silicon Nitride Ceramics. Journal of the American Ceramic Society, 2005, 88, 934-937.	1.9	85
35	New insights into the microstructure of translucent CaAlSiN₃:Eu²⁺ phosphor ceramics for solid-state laser lighting. Journal of Materials Chemistry C, 2017, 5, 1042-1051.	2.7	83
36	Photoluminescence of Rare-Earth-Doped Ca-alpha-SiAlON Phosphors: Composition and Concentration Dependence. Journal of the American Ceramic Society, 2005, 88, 2883-2888.	1.9	77

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37	Moisture-induced degradation and its mechanism of (Sr,Ca)AlSiN₃:Eu²⁺, a red-color-converter for solid state lighting. Journal of Materials Chemistry C, 2015, 3, 3181-3188.	2.7	75
38	Oxynitride/nitride phosphors for white light-emitting diodes (LEDs). Journal of Electroceramics, 2008, 21, 370-373.	0.8	66
39	New Y₂BaAl₄SiO₁₂:Ce³⁺ yellow microcrystal-glass powder phosphor with high thermal emission stability. Journal of Materials Chemistry C, 2016, 4, 9872-9878.	2.7	66
40	Structure, luminescence and energy transfer in Ce³⁺ and Mn²⁺ codoped Î³-AlON phosphors. Journal of Materials Chemistry C, 2019, 7, 733-742.	2.7	66
41	Blue-Emitting Sr₃Si_{8â€“x}Al_xO_{7+x}N_{8â€“x}:Eu²⁺ Discovered by a Single-Particle-Diagnosis Approach: Crystal Structure, Luminescence, Scale-Up Synthesis, and Its Abnormal Thermal Quenching Behavior. Chemistry of Materials, 2015, 27, 7689-7697.	9.2	63
42	Crystal structure, tunable emission and applications of Ca_{1â^'x}Al_{1â^'x}Si_{1+x}N_{3â^'x}O_x:RE (x = 0â€“0.22,) Tj ETQq0 0 0 rgBT /Ov Journal of Materials Chemistry C, 2016, 4, 11219-11230.	2.7	61
43	Reduced thermal degradation of the red-emitting Sr₂Si₅N₈:Eu²⁺ phosphor via thermal treatment in nitrogen. Journal of Materials Chemistry C, 2015, 3, 7642-7651.	2.7	60
44	Fabrication of glasses of dispersed yellow oxynitride phosphor for white light-emitting diodes. Optical Materials, 2010, 33, 170-175.	1.7	57
45	Gas-Reductionâ€“Nitridation Synthesis of CaAlSiN₃:Eu²⁺ Fine Powder Phosphors for Solid-State Lighting. Industrial & Engineering Chemistry Research, 2014, 53, 2713-2717.	1.8	56
46	Photoluminescence and thermal stability of yellow-emitting Sr-Î±-SiAlON:Eu2+ phosphor. Journal of Materials Science, 2010, 45, 3198-3203.	1.7	53
47	Crystal Structure and Photoluminescence Properties of Redâ€Emitting Ca₉La_{1â^'x}(VO₄)₇:xEu³⁺ Phosphors for White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2010, 93, 4081-4086.	1.9	53
48	Ce-Doped La₃Si_{6.5}Al_{1.5}N_{9.5}O_{5.5}, a Rare Highly Efficient Blue-Emitting Phosphor at Short Wavelength toward High Color Rendering White LED Application. ACS Applied Materials & Interfaces, 2017, 9, 22665-22675.	4.0	53
49	Fine yellowÎ±-SiAlON:Eu phosphors for white LEDs prepared by the gas-reductionâ€“nitridation method. Science and Technology of Advanced Materials, 2007, 8, 601-606.	2.8	52
50	Luminescence properties of SrSi6N8:Eu2+. Journal of Materials Science, 2008, 43, 5659-5661.	1.7	51
51	Time-resolved photoluminescence analysis of two-peak emission behavior in Sr2Si5N8:Eu2+. Applied Physics Letters, 2009, 95, .	1.5	50
52	Photoluminescence properties of Î²-SiAlON:Yb²⁺, a novel green-emitting phosphor for white light-emitting diodes. Science and Technology of Advanced Materials, 2011, 12, 034404.	2.8	50
53	Temperature Dependent Luminescence of Yellowâ€Emitting Îâ€Sialon:Eu²⁺ Oxynitride Phosphors for White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2009, 92, 2668-2673.	1.9	48
54	Anomalous Eu layer doping in Eu, Si co-doped aluminium nitride based phosphor and its direct observation. Journal of Materials Chemistry, 2010, 20, 9948.	6.7	48

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55	Synthesis of Aluminum Nitride Nanopowder by Gasâ€Reductionâ€“Nitridation Method. Journal of the American Ceramic Society, 2003, 86, 1046-1048.	1.9	44
56	Fabrication of silicon nitride nanoceramicsâ€”Powder preparation and sintering: A review. Science and Technology of Advanced Materials, 2007, 8, 635-643.	2.8	43
57	Ab initiocalculation of the ideal tensile and shear strength of cubic silicon nitride. Physical Review B, 2003, 67, .	1.1	41
58	Thermal Quenching Mechanism of CaAlSiN3:Eu2+ Red Phosphor. Bulletin of the Chemical Society of Japan, 2018, 91, 173-177.	2.0	41
59	One-step preparation of Ca-Î±-SiAlON:Eu2+ fine powder phosphors for white light-emitting diodes. Applied Physics Letters, 2008, 92, .	1.5	40
60	Structure and luminescence of a novel orange-yellow-emitting Ca_{1.62}Eu_{0.38}Si₅O₃N₆phosphor for warm white LEDs, discovered by a single-particle-diagnosis approach. Journal of Materials Chemistry C, 2016, 4, 9968-9975.	2.7	40
61	Role of Si in the Luminescence of AlN:Eu,Si Phosphors. Journal of the American Ceramic Society, 2009, 92, 1272-1275.	1.9	38
62	Strength Retention in Hotâ€Pressed Si₃N₄ Ceramics with Lu₂O₃ Additives after Oxidation Exposure in Air at 1500Â°C. Journal of the American Ceramic Society, 2002, 85, 1607-1609.	1.9	37
63	A novel yellow-emitting SrAlSi4N7:Ce3+ phosphor for solid state lighting: Synthesis, electronic structure and photoluminescence properties. Journal of Solid State Chemistry, 2013, 208, 50-57.	1.4	37
64	Structural evolutions and significantly reduced thermal degradation of red-emitting Sr₂Si₅N₈:Eu²⁺via carbon doping. Journal of Materials Chemistry C, 2017, 5, 8927-8935.	2.7	35
65	Phase Relationships in the Si₃N₄â€“SiO₂â€“Lu₂O₃ System. Journal of the American Ceramic Society, 2002, 85, 2861-2863.	1.9	33
66	Synthesis, Crystal and Local Electronic Structures, and Photoluminescence Properties of Redâ€Emitting CaAl_zSiN_{2+z}:Eu²⁺ with Orthorhombic Structure. International Journal of Applied Ceramic Technology, 2010, 7, 787-802.	1.1	33
67	Synthesis, Crystal Structure, and Photoluminescence of Srâ€Î±â€SiAlON:Eu²⁺. Journal of the American Ceramic Society, 2010, 93, 465-469.	1.9	33
68	Powder Synthesis of Y-Î±-SiAlON and Its Potential as a Phosphor Host. Journal of Physical Chemistry C, 2010, 114, 1337-1342.	1.5	32
69	Crystal, electronic and luminescence properties of Eu2+-doped Sr2Al2â€“xSi1+xO7â€“xNx. Science and Technology of Advanced Materials, 2007, 8, 607-616.	2.8	28
70	Spark Plasma Sintering of Tungsten Bronze Sr_{2â^'x}Ca_xNaNb₅O₁₅ (x= 0.1) Piezoelectric Ceramics: II, Electrical Properties. Journal of the American Ceramic Society, 2002, 85, 2731-2737.	1.9	27
71	Structural and Photoluminescence Properties of Ce³⁺â€and Tb³⁺â€Activated Luâ€Î±â€Sialon. Journal of the American Ceramic Society, 2009, 92, 2738-2744.	1.9	27
72	Crystal and Electronic Structures, Photoluminescence Properties of Eu2+-Doped Novel Oxynitride Ba4Si6O16-3x/2Nx. Materials, 2010, 3, 1692-1708.	1.3	27

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73	Exploration of metaphosphate glasses dispersed with Eu-doped SiAlON for white LED applications. Optical Materials, 2015, 42, 399-405.	1.7	27
74	Nonequiaxial Grain Growth and Polytype Transformation of Sintered Î±â€Silicon Carbide and Î²â€Silicon Carbide. Journal of the American Ceramic Society, 2003, 86, 2222-2224.	1.9	26
75	An ab initio study of the ideal tensile and shear strength of single-crystal Î²â€“Si₃N₄. Journal of Materials Research, 2003, 18, 1168-1172.	1.2	25
76	Hot-Pressed Silicon Nitride with Lu2O3Additives: Oxidation and Its Effect on Strength. Journal of the American Ceramic Society, 2003, 86, 1900-1905.	1.9	24
77	Role of Fluxes in Optimizing the Optical Properties of Sr0.95Si2O2N2:0.05Eu2+ Green-Emitting Phosphor. Materials, 2013, 6, 2862-2872.	1.3	24
78	Spark Plasma Sintering of Tungsten Bronze Sr_{2â^'x}Ca_xNaNb₅O₁₅ (x= 0.1) Piezoelectric Ceramics: I, Processing and Microstructure. Journal of the American Ceramic Society, 2002, 85, 2725-2730.	1.9	23
79	Microstructural characterization and high-temperature strength of hot-pressed silicon nitride ceramics with Lu2O3additives. Philosophical Magazine Letters, 2003, 83, 357-365.	0.5	22
80	Exploration of zinc phosphate glasses dispersed with Eu-doped SiAlON for white LED applications. Optical Materials, 2013, 35, 2677-2684.	1.7	22
81	Eu²⁺-Doped Sr₂B_{2â€“2x}Si_{2+3x}Al_{2â€“x}N_{8+x}: A Boron-Containing Orange-Emitting Nitridosilicate with Interesting Composition-Dependent Photoluminescence Properties. Inorganic Chemistry, 2016, 55, 11331-11336.	1.9	22
82	Synthesis and Photoluminescence Properties of a Blue-Emitting La₃Si₈N₁₁O₄:Eu²⁺ Phosphor. Inorganic Chemistry, 2017, 56, 14170-14177.	1.9	22
83	Crystal Structure of Lu₄Si₂O₇N₂ Analyzed by the Rietveld Method Using the Timeâ€ofâ€Flight Neutron Powder Diffraction Pattern. Journal of the American Ceramic Society, 2002, 85, 2072-2077.	1.9	21
84	Fabrication of a Nano-Si3N4/Nano-C Composite by High-Energy Ball Milling and Spark Plasma Sintering. Journal of the American Ceramic Society, 2007, 90, 1058-1062.	1.9	21
85	Blueâ€Emitting Li₂Sr_{1â^'3x/2}Ce_xSiO₄ Phosphors for Ultraviolet White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2010, 93, 2018-2023.	1.9	21
86	New Deep-Blue-Emitting Ce-Doped A_{4â€“m}B_nC_{19+2m}X_{29+m} (A =) Tj ETQq0 0 0 rgBT /Ov Warm White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2019, 11, 29047-29055.	4.0	21
87	Emission color tuning of laminated and mixed SiAlON phosphor films by electrophoretic deposition. Journal of the Ceramic Society of Japan, 2010, 118, 1-4.	0.5	20
88	Site-Selective Eu³⁺ Luminescence in the Monoclinic Phase of YSiO₂N. Chemistry of Materials, 2021, 33, 8873-8885.	3.2	20
89	Preparation and Cathodoluminescence of Mg-Doped and Zn-Doped GaN Powders. Journal of the American Ceramic Society, 2008, 91, 1711-1714.	1.9	19
90	Local analysis of Eu²⁺emission in CaAlSiN₃. Science and Technology of Advanced Materials, 2013, 14, 064201.	2.8	18

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91	Yellowâ€Emitting <scp><scp>Y</scp></scp>₃<scp><scp>Si</scp></scp>₆<scp><scp>N</scp></scp>₁₁:<scp><scp>Ce</scp></scp>³⁺ Phosphors for White Lightâ€“Emitting Diodes (<scp>LED</scp>s). Journal of the American Ceramic Society, 2013, 96, 1688-1690.	1.9	18
92	Ab initiocharacterization of the mechanical and electronic properties ofÎ²-SiAlON (Si6â^'zAlzOzN8â^'z;z=0â€“5). Physical Review B, 2005, 71, .	1.1	16
93	Preparation of Lutetium Nitride by Direct Nitridation. Journal of Materials Research, 2004, 19, 959-963.	1.2	15
94	Fabrication of silica glass containing yellow oxynitride phosphor by the solâ€“gel process. Science and Technology of Advanced Materials, 2011, 12, 034407.	2.8	15
95	New phosphor discovery by the single particle diagnosis approach. Materials Discovery, 2015, 1, 29-37.	3.3	15
96	Single-particle-diagnosis approach: An efficient strategy for discovering new nitride phosphors. Journal of Rare Earths, 2018, 36, 42-48.	2.5	15
97	Sintering of Silicon Carbide Powder Containing Metal Boride. Journal of the Ceramic Society of Japan, 2003, 111, 878-882.	1.3	14
98	An analysis of crystal structure of Ca-deficient oxonitridoaluminosilicate, Ca0.88Al0.91Si1.09N2.85O0.15. Journal of the Ceramic Society of Japan, 2009, 117, 94-98.	0.5	14
99	Estimation of Thermal Shock Properties for Silicon Nitride Having High Thermal Conductivity.. Journal of the Ceramic Society of Japan, 2002, 110, 38-43.	1.3	12
100	Improving Heat Resistance of Silicon Nitride Ceramics with Rare-Earth Silicon Oxynitride. Journal of the Ceramic Society of Japan, 2006, 114, 880-887.	1.3	12
101	Substitutional disorder in Sr_{2â^'y}Eu_yB_{2â^'2x}Si_{2+3x}Al_{2â^'x}N_{8+x} (x â‰ƒ 0.12,) Tj ET Q q 1 1 0.78431 4 r	1.3	12
102	Optical properties of zinc borate glasses dispersed with Eu-doped SiAlON for white LED applications. Ceramics International, 2018, 44, 4783-4788.	2.3	12
103	Enhanced Grain Growth in Porous Materials from .ALPHA.- and .BETA.-SiC Powder Mixtures. Journal of the Ceramic Society of Japan, 2005, 113, 51-54.	1.3	11
104	Phosphor Deposits of Î²-Sialon:Eu2+ Mixed with SnO2 Nanoparticles Fabricated by the Electrophoretic Deposition (EPD) Process. Materials, 2014, 7, 3623-3633.	1.3	11
105	Reaction of europium-doped Î±-SiAlON phosphors with sodium borosilicate glass matrices. Journal of the European Ceramic Society, 2018, 38, 735-741.	2.8	11
106	Dependence of fracture stress on applied stress rate in a Yb2O3â€“SiO2-doped hot-pressed silicon nitride ceramic. Journal of Materials Research, 2001, 16, 3254-3261.	1.2	10
107	A promising thermally robust blue-green Li-Î±-sialon:Ce3+ for ultraviolet LED-driven white LEDs. Journal of Alloys and Compounds, 2019, 805, 1004-1012.	2.8	10
108	Optical properties of excitation spectra of (Ca,Y)-Î±-SiAlON:Eu yellow phosphors. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2701-2704.	0.8	9

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109	High lithium conductivity in Li_{1-2x}Ca_xSi₂N₃. Journal of Materials Research, 2011, 26, 1133-1142.	1.2	9
110	Fabrication of sodium borosilicate glass and Eu-doped SiAlON composites for white LED. Journal of the Ceramic Society of Japan, 2015, 123, 452-455.	0.5	9
111	Dissimilarity measure of local structure in inorganic crystals using Wasserstein distance to search for novel phosphors. Science and Technology of Advanced Materials, 2021, 22, 185-193.	2.8	9
112	Narrow-band phosphor K2ZnP2O7:Eu2+ discovered using local structure similarity. Scripta Materialia, 2022, 215, 114686.	2.6	9
113	Effect of Sintering Additives on Superplastic Deformation of Nano-Sized beta-Silicon Nitride Ceramics. Journal of the American Ceramic Society, 2006, 89, 1745-1747.	1.9	8
114	Positional-dependent luminescence property of Î²-SiAlON:Eu2+ phosphor particle. Applied Physics Letters, 2014, 104, .	1.5	8
115	Enhanced cathodoluminescence of green Î²-sialon:Eu2+ phosphor by In2O3 coating. Journal of Alloys and Compounds, 2017, 727, 1110-1114.	2.8	8
116	Tensile Creep Behavior in Lutetia-doped Silicon Nitride Ceramics. Journal of Materials Research, 2005, 20, 2213-2217.	1.2	7
117	Effect of sintering temperature and sintering additives on ionic conductivity of LiSi2N3. Journal of the Ceramic Society of Japan, 2010, 118, 837-841.	0.5	6
118	Synthesis of Euâ€doped hydroxyapatite whiskers and fabrication of phosphor layer via electrophoretic deposition process. Journal of the American Ceramic Society, 2020, 103, 6780-6792.	1.9	6
119	Broadband white luminescent phosphor Ba(Si7â^'xAlx)Liy(N10â^'x+yOxâ^'y):Eu2+ with a high color rendering index for solid state lighting. Journal of Materials Chemistry C, 2021, 9, 5497-5504.	2.7	6
120	Oxidation behaviour and strength degradation of a Yb2O3â^'SiO2â^'doped hot-pressed silicon nitride between 1200 and 1500Â°C. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 3027-3043.	0.8	5
121	Ordering of Oxygen and Nitrogen in J-Phase Lu₄Si₂O₇N₂. Key Engineering Materials, 2003, 237, 53-58.	0.4	5
122	Effect of Aluminium on High-Energy Ball Milling and Spark Plasma Sintering of Silicon Nitride. Key Engineering Materials, 2005, 287, 156-159.	0.4	5
123	Fabrication of Silicon Nitride Nano-Ceramics by High-Energy Mechanical Milling and Spark Plasma Sintering. Key Engineering Materials, 2005, 287, 166-170.	0.4	5
124	Fine-grained AlN ceramics from nanopowder by spark plasma sintering. Journal of the Ceramic Society of Japan, 2010, 118, 1050-1052.	0.5	5
125	Significantly improved photoluminescence of the greenâ€emitting Î²â€sialon:Eu²⁺ phosphor via surface coating of TiO₂. Journal of the American Ceramic Society, 2019, 102, 294-302.	1.9	5
126	Incommensurately Modulated Crystal Structure and Photoluminescence Properties of Eu2O3- and P2O5-Doped Ca2SiO4 Phosphor. Materials, 2020, 13, 58.	1.3	5

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127	Powder synthesis and luminescence properties of green emitting Ba2LiSi7-xAlxN12-xOx:Eu2+ phosphor. Journal of Alloys and Compounds, 2021, 850, 156358.	2.8	5
128	Low-Temperature Sintering of Î±- and Î²-SiC Powders with AlB₂ Additive. Key Engineering Materials, 2006, 317-318, 23-26.	0.4	4
129	Fabrication of Î±-Sialon Nano-Ceramics. Key Engineering Materials, 2006, 317-318, 629-632.	0.4	4
130	Microanalysis of Calcium Codoped LaAl(Si_{6â^'z}Al_z)(N_{10â^'z}O_z) (z~1): Ce³⁺ Blue Phosphor. Journal of the American Ceramic Society, 2015, 98, 1253-1258.	1.9	4
131	Synthesis of silica glasses doped with SiAl ON phosphors by supercritical drying. International Journal of Applied Glass Science, 2017, 8, 247-252.	1.0	4
132	Crystal Structure and Photoluminescence Properties of an Incommensurate Phase in EuO- and P₂O₅-Doped Ca₂SiO₄. Inorganic Chemistry, 2019, 58, 6155-6160.	1.9	4
133	Compositely modulated structures of phosphor materials Sr _x Li_{2+x}Al_{2â€“x}O₄:Eu²⁺. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 76-84.	0.5	4
134	Fabrication of TiO₂â€“SiO₂ glasses containing Ca-Î±-SiAlON:Eu²⁺ phosphor using the solâ€“gel process. Journal of the Ceramic Society of Japan, 2013, 121, 361-365.	0.5	3
135	Cathodoluminescence Properties of Blue Emitting <scp><scp>Eu</scp></scp>²⁺â€Doped <scp><scp>AlN</scp></scp>â€Polytypoids for Fieldâ€Emission Displays. Journal of the American Ceramic Society, 2014, 97, 339-341.	1.9	3
136	Thermal Relaxation Spectra for Evaluating Luminescence Quantum Efficiency of CASN:Eu2+ Measured by Balanced-Detection Sagnac-Interferometer Photothermal Deflection Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 1008.	1.3	3
137	Exploration of zinc borophosphate glasses as dispersion media for SiAlON phosphors. International Journal of Applied Glass Science, 2020, 11, 471-479.	1.0	3
138	Combination of recommender system and single-particle diagnosis for accelerated discovery of novel nitrides. Journal of Chemical Physics, 2021, 154, 224117.	1.2	3
139	Plastic Deformation of Silicon Nitride Nano-Ceramics. Key Engineering Materials, 2007, 352, 189-192.	0.4	2
140	Nano Ceramics Center, National Institute for Materials Science. Science and Technology of Advanced Materials, 2007, 8, 571-577.	2.8	2
141	Effects of Sm³⁺ Doping on the Photoluminescence Properties of Ca₉Eu_{1-x}Sm_x(VO₄)₇ Red-Emitting Phosphors. Key Engineering Materials, 2012, 512-515, 1488-1493.	0.4	2
142	Cyan-Emitting Sialon-Polytypoid Phosphor Discovered by a Single-Particle-Diagnosis Approach. ECS Journal of Solid State Science and Technology, 2021, 10, 116002.	0.9	2
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