

Balaji Devakumar

List of Publications by Year in descending order

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91
papers

3,890
citations

93792

39
h-index

156644

58
g-index

92
all docs

92
docs citations

92
times ranked

1522
citing authors

#	ARTICLE	IF	CITATIONS
1	Blue-light-excitable broadband yellow-emitting $\text{CaGd}_2\text{HfSc}(\text{AlO}_4)_3\text{:Ce}^{3+}$ garnet phosphors for white light-emitting diode devices with improved color rendering index. <i>Materials Today Chemistry</i> , 2022, 23, 100638.	1.7	7
2	High-brightness cyan-emitting Eu^{2+} -activated orthophosphate phosphors for near-UV-pumped white LEDs. <i>Journal of Luminescence</i> , 2022, 243, 118640.	1.5	27
3	One-step low-temperature solid-state synthesis of lead-free cesium copper halide $\text{Cs}_3\text{Cu}_2\text{Br}_5$ phosphors with bright blue emissions. <i>Materials Today Chemistry</i> , 2022, 23, 100678.	1.7	5
4	Full-Spectrum White Light-Emitting Diodes Enabled by an Efficient Broadband Green-Emitting $\text{CaY}_2\text{ZrScAl}_3\text{O}_{12}\text{:Ce}^{3+}$ Garnet Phosphor. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5643-5652.	4.0	72
5	An energy transfer strategy for highly luminescent green-emitting $\text{Ce}^{3+}/\text{Tb}^{3+}$ codoped $\text{Ca}_2\text{LaHf}_2\text{Al}_3\text{O}_{12}$ garnet phosphors in white light-emitting diodes. <i>Materials Today Chemistry</i> , 2022, 24, 100773.	1.7	2
6	Full-spectrum solid-state white lighting with high color rendering index exceeding 96 based on a bright broadband green-emitting phosphor. <i>Applied Materials Today</i> , 2022, 27, 101439.	2.3	5
7	Dazzling Red-Emitting Europium(III) Ion-Doped $\text{Ca}_2\text{LaHf}_2\text{Al}_3\text{O}_{12}$ Garnet-Type Phosphor Materials with Potential Application in Solid-State White Lighting. <i>Inorganic Chemistry</i> , 2022, 61, 6898-6909.	1.9	22
8	Ultra-high color rendering warm-white light-emitting diodes based on an efficient green-emitting garnet phosphor for solid-state lighting. <i>Chemical Engineering Journal</i> , 2021, 405, 126950.	6.6	146
9	Energy transfer induced color-tunable emissions from $\text{Ba}_2\text{Gd}_5\text{B}_5\text{O}_{17}\text{:Ce}^{3+}/\text{Tb}^{3+}$ borate phosphors for white LEDs. <i>Journal of Luminescence</i> , 2021, 229, 117685.	1.5	17
10	Synthesis, crystal structure and photoluminescence properties of novel far-red-emitting $\text{SrLaZnSbO}_6\text{:Mn}^{4+}$ double-perovskite phosphors for plant cultivation LEDs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113166.	2.0	16
11	Bright red luminescence from Mn^{4+} ions doped $\text{Sr}_2\text{LuTaO}_6$ double-perovskite phosphors. <i>Journal of Luminescence</i> , 2021, 233, 117901.	1.5	29
12	Using an excellent near-UV-excited cyan-emitting phosphor for enhancing the color rendering index of warm-white LEDs by filling the cyan gap. <i>Materials Today Chemistry</i> , 2021, 20, 100471.	1.7	23
13	A novel blue-emitting phosphors ($\text{CsBaYB}_6\text{O}_{12}\text{:Ce}^{3+}$): Potential applications in w-LEDs and X-ray phosphors. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159676.	2.8	15
14	Finding an efficient far-red-emitting $\text{CaMg}_2\text{La}_2\text{W}_2\text{O}_{12}\text{:Mn}^{4+}$ phosphor toward indoor plant cultivation LED lighting. <i>Materials Today Chemistry</i> , 2021, 21, 100512.	1.7	23
15	Novel $\text{Ba}_3\text{Lu}_4\text{O}_9\text{:Bi}^{3+},\text{Eu}^{3+}$ phosphors for white LEDs: Efficient energy transfer, broad near-UV excitation band and green-yellow-orange-red color tunable emissions. <i>Journal of Luminescence</i> , 2021, 238, 118291.	1.5	4
16	Utilizing energy transfer strategy to produce efficient green luminescence in $\text{Ca}_2\text{LuHf}_2\text{Al}_3\text{O}_{12}\text{:Ce}^{3+},\text{Tb}^{3+}$ garnet phosphors for high-quality near-UV-pumped warm-white LEDs. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 365-377.	5.0	23
17	A broadband cyan-emitting $\text{Ca}_2\text{LuZr}_2(\text{AlO}_4)_3\text{:Ce}^{3+}$ garnet phosphor for near-ultraviolet-pumped warm-white light-emitting diodes with an improved color rendering index. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1095-1103.	2.7	176
18	Efficient green-emitting $\text{Ca}_2\text{GdZr}_2\text{Al}_3\text{O}_{12}\text{:Ce}^{3+},\text{Tb}^{3+}$ phosphors for near-UV-pumped high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , 2020, 220, 117012.	1.5	18

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19	A novel efficient Mn ⁴⁺ -activated Ba ₂ YTaO ₆ far-red emitting phosphor for plant cultivation LEDs: Preparation and photoluminescence properties. <i>Journal of Luminescence</i> , 2020, 228, 117621.	1.5	20
20	KCa ₂ Mg ₂ V ₃ O ₁₂ : A novel efficient rare-earth-free self-activated yellow-emitting phosphor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112765.	2.0	19
21	Bright cyan-to-green color-tunable emissions from Ce ³⁺ /Tb ³⁺ co-activated garnet phosphors for high-color-quality solid-state lighting. <i>Materials Today Energy</i> , 2020, 17, 100487.	2.5	18
22	Synthesis and photoluminescence properties of near-UV-excitable cyan-emitting Ca ₂ YHf ₂ Ga ₃ O ₁₂ :Ce ³⁺ garnet phosphors. <i>Journal of Luminescence</i> , 2020, 227, 117544.	1.5	14
23	Preparation, crystal structure, and photoluminescence properties of high-brightness red-emitting Ca ₂ LuNbO ₆ :Eu ³⁺ double-perovskite phosphors for high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , 2020, 225, 117373.	1.5	33
24	Eu ³⁺ -activated Ca ₂ YTaO ₆ double-perovskite compound: A novel highly efficient red-emitting phosphor for near-UV-excited warm w-LEDs. <i>Journal of Luminescence</i> , 2020, 226, 117408.	1.5	33
25	Optical properties of deep-red-emitting Ca ₂ YTaO ₆ :Mn ⁴⁺ phosphors for LEDs applications. <i>Optics and Laser Technology</i> , 2020, 130, 106349.	2.2	29
26	Achieving full-visible-spectrum LED lighting via employing an efficient Ce ³⁺ -activated cyan phosphor. <i>Materials Today Energy</i> , 2020, 17, 100448.	2.5	46
27	Novel efficient deep-red-emitting Ca ₂ LuTaO ₆ :Mn ⁴⁺ double-perovskite phosphors for plant growth LEDs. <i>Journal of Luminescence</i> , 2020, 222, 117177.	1.5	36
28	Preparation and photoluminescence properties of novel Mn ⁴⁺ doped Li ₃ Mg ₂ TaO ₆ red-emitting phosphors. <i>Inorganic Chemistry Communication</i> , 2020, 116, 107903.	1.8	24
29	Synthesis and photoluminescence properties of a new blue-light-excitable red phosphor Ca ₂ LaTaO ₆ :Eu ³⁺ for white LEDs. <i>Journal of Luminescence</i> , 2020, 222, 117173.	1.5	42
30	Full-visible-spectrum lighting enabled by an excellent cyan-emitting garnet phosphor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4934-4943.	2.7	195
31	Realizing bright blue-red color-tunable emissions from Gd ₂ GeO ₅ :Bi ³⁺ ,Eu ³⁺ phosphors through energy transfer toward light-emitting diodes. <i>Journal of Luminescence</i> , 2020, 222, 117127.	1.5	22
32	Highly efficient near-UV-excitable Ca ₂ YHf ₂ Al ₃ O ₁₂ :Ce ³⁺ ,Tb ³⁺ green-emitting garnet phosphors with potential application in high color rendering warm-white LEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4408-4420.	2.7	131
33	Novel highly luminescent double-perovskite Ca ₂ GdSbO ₆ :Eu ³⁺ red phosphors with high color purity for white LEDs: Synthesis, crystal structure, and photoluminescence properties. <i>Journal of Luminescence</i> , 2020, 221, 117105.	1.5	75
34	Filling the cyan gap toward full-visible-spectrum LED lighting with Ca ₂ LaHf ₂ Al ₃ O ₁₂ :Ce ³⁺ broadband green phosphor. <i>Journal of Alloys and Compounds</i> , 2020, 836, 155469.	2.8	50
35	Facile low-temperature solid-state synthesis of efficient blue-emitting Cs ₃ Cu ₂ I ₅ powder phosphors for solid-state lighting. <i>Materials Today Chemistry</i> , 2020, 17, 100288.	1.7	53
36	Highly efficient Ce ³⁺ → Tb ³⁺ energy transfer induced bright narrowband green emissions from garnet-type Ca ₂ YZr ₂ (AlO ₄) ₃ :Ce ³⁺ ,Tb ³⁺ phosphors for white LEDs with high color rendering index. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10471-10480.	2.7	110

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37	Synthesis, Crystal Structure, and Photoluminescence Characteristics of High-Efficiency Deep-Red Emitting Ba ₂ GdTaO ₆ :Mn ⁴⁺ Phosphors. ACS Omega, 2019, 4, 13474-13480.	1.6	40
38	Crystal structure, photoluminescence properties and thermal stability of BaLu ₂ Si ₃ O ₁₀ :Eu ³⁺ red-emitting phosphors with high color purity for near-UV-excited white LEDs. Journal of Luminescence, 2019, 215, 116623.	1.5	38
39	Novel highly efficient and thermally stable Ca ₂ GdTaO ₆ :Eu ³⁺ red-emitting phosphors with high color purity for UV/blue-excited WLEDs. Journal of Alloys and Compounds, 2019, 804, 93-99.	2.8	73
40	Synthesis and photoluminescence properties of a novel high-efficiency red-emitting Ca ₂ LuSbO ₆ :Eu ³⁺ phosphor for WLEDs. Journal of Luminescence, 2019, 214, 116605.	1.5	44
41	Deep-red-emitting Ca ₂ LuSbO ₆ :Mn ⁴⁺ phosphors for plant growth LEDs: Synthesis, crystal structure, and photoluminescence properties. Journal of Alloys and Compounds, 2019, 804, 521-526.	2.8	46
42	Effect of Ca ²⁺ ion co-doping on radiative properties <i>via</i> tuning the local symmetry around the Eu ³⁺ ions in orange red light emitting GdPO ₄ :Eu ³⁺ phosphors. New Journal of Chemistry, 2019, 43, 63-71.	1.4	20
43	CaYAlO ₄ :Mn ⁴⁺ ,Mg ²⁺ : An efficient far-red-emitting phosphor for indoor plant growth LEDs. Journal of Alloys and Compounds, 2019, 785, 1198-1205.	2.8	49
44	Novel high color-purity Eu ³⁺ -activated Ba ₃ Lu ₄ O ₉ red-emitting phosphors with high quantum efficiency and good thermal stability for warm white LEDs. Journal of Luminescence, 2019, 209, 156-162.	1.5	49
45	Mn ⁴⁺ -activated BaLaMgSbO ₆ double-perovskite phosphor: a novel high-efficiency far-red-emitting luminescent material for indoor plant growth lighting. RSC Advances, 2019, 9, 3303-3310.	1.7	34
46	Mn ⁴⁺ -activated Li ₃ Mg ₂ SbO ₆ as an ultrabright fluoride-free red-emitting phosphor for warm white light-emitting diodes. RSC Advances, 2019, 9, 3429-3435.	1.7	65
47	Novel Mn ⁴⁺ doped Ca ₂ GdSbO ₆ red-emitting phosphor: A potential color converter for light-emitting diodes. Journal of the American Ceramic Society, 2019, 102, 4730-4736.	1.9	41
48	Double perovskite Ca ₂ LuTaO ₆ :Eu ³⁺ red-emitting phosphors: Synthesis, structure and photoluminescence characteristics. Journal of Alloys and Compounds, 2019, 804, 230-236.	2.8	65
49	Novel high-efficiency violet-red dual-emitting Lu ₂ GeO ₅ : Bi ³⁺ , Eu ³⁺ phosphors for indoor plant growth lighting. Journal of Luminescence, 2019, 214, 116544.	1.5	24
50	Novel Ca ₂ GdTaO ₆ :Mn ⁴⁺ ,M (M = Li ⁺ , Na ⁺ , K ⁺ , and Mg ²⁺) red phosphors for plant cultivation light-emitting diodes: Synthesis and luminescence properties. Journal of Luminescence, 2019, 214, 116525.	1.5	38
51	Cyan-emitting Ba ₃ Y ₂ B ₆ O ₁₅ :Ce ³⁺ ,Tb ³⁺ phosphor: A potential color converter for near-UV-excited white LEDs. Journal of Luminescence, 2019, 211, 388-393.	1.5	43
52	Synthesis, structural and photoluminescence properties of novel orange-red emitting Ba ₃ Y ₂ B ₆ O ₁₅ :Eu ³⁺ phosphors. Journal of Luminescence, 2019, 208, 75-81.	1.5	48
53	Mn ⁴⁺ -activated KLaMgWO ₆ : A new high-efficiency far-red phosphor for indoor plant growth LEDs. Ceramics International, 2019, 45, 4564-4569.	2.3	85
54	Simultaneously enhanced far-red luminescence and thermal stability in Ca ₃ Al ₄ ZnO ₁₀ :Mn ⁴⁺ phosphor via Mg ²⁺ doping for plant growth lighting. Journal of Alloys and Compounds, 2019, 785, 312-319.	2.8	47

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55	Ce ³⁺ -activated CaSr ₂ Al ₂ O ₆ green-emitting phosphors: Potential application as color converter for warm WLEDs. <i>Journal of Luminescence</i> , 2019, 206, 571-577.	1.5	33
56	Novel Na ₃ Sc ₂ (PO ₄) ₃ :Ce ³⁺ , Tb ³⁺ phosphors for white LEDs: Tunable blue-green color emission, high quantum efficiency and excellent thermal stability. <i>Dyes and Pigments</i> , 2018, 151, 81-88.	2.0	142
57	A single-phased warm-white-emitting K ₃ Y(PO ₄) ₂ :Dy ³⁺ , Sm ³⁺ phosphor with tuneable photoluminescence for near-UV-excited white LEDs. <i>Dyes and Pigments</i> , 2018, 157, 72-79.	2.0	49
58	Preparation, characterization, and luminescence properties of double perovskite SrLaMgSbO ₆ :Mn ⁴⁺ far-red emitting phosphors for indoor plant growth lighting. <i>RSC Advances</i> , 2018, 8, 35187-35194.	1.7	21
59	Novel far-red-emitting SrGdAlO ₄ :Mn ⁴⁺ phosphors with excellent responsiveness to phytochrome P _{FR} for plant growth lighting. <i>RSC Advances</i> , 2018, 8, 39307-39313.	1.7	33
60	A novel Sm ³⁺ singly doped LiCa ₃ ZnV ₃ O ₁₂ phosphor: a potential luminescent material for multifunctional applications. <i>RSC Advances</i> , 2018, 8, 33403-33413.	1.7	59
61	Synthesis, structure, and luminescence characteristics of far-red emitting Mn ⁴⁺ -activated LaScO ₃ perovskite phosphors for plant growth. <i>RSC Advances</i> , 2018, 8, 33035-33041.	1.7	8
62	Novel high-efficiency Eu ³⁺ -activated Na ₂ Gd ₂ B ₂ O ₇ red-emitting phosphors with high color purity. <i>RSC Advances</i> , 2018, 8, 32948-32955.	1.7	20
63	Synthesis and photoluminescence characteristics of high color purity Ba ₃ Y ₄ O ₉ :Eu ³⁺ red-emitting phosphors with excellent thermal stability for warm W-LED application. <i>RSC Advances</i> , 2018, 8, 32111-32118.	1.7	41
64	Thermally stable La ₂ LiSbO ₆ :Mn ⁴⁺ , Mg ²⁺ far-red emitting phosphors with over 90% internal quantum efficiency for plant growth LEDs. <i>RSC Advances</i> , 2018, 8, 31835-31842.	1.7	40
65	Far-red-emitting double-perovskite CaLaMgSbO ₆ :Mn ⁴⁺ phosphors with high photoluminescence efficiency and thermal stability for indoor plant cultivation LEDs. <i>RSC Advances</i> , 2018, 8, 31666-31672.	1.7	63
66	Novel SrMg ₂ La ₂ W ₂ O ₁₂ :Mn ⁴⁺ far-red phosphors with high quantum efficiency and thermal stability towards applications in indoor plant cultivation LEDs. <i>RSC Advances</i> , 2018, 8, 30191-30200.	1.7	73
67	Photoluminescence properties of novel Ba ₂ Lu ₅ B ₅ O ₁₇ :Eu ³⁺ red emitting phosphors with high color purity for near-UV excited white light emitting diodes. <i>RSC Advances</i> , 2018, 8, 30396-30403.	1.7	11
68	Novel Eu ³⁺ -activated Ba ₂ Y ₅ B ₅ O ₁₇ red-emitting phosphors for white LEDs: high color purity, high quantum efficiency and excellent thermal stability. <i>RSC Advances</i> , 2018, 8, 23323-23331.	1.7	25
69	Synthesis, crystal growth and characterization of Zn _{0.5} Mn _{0.5} Te single crystal grown via the Bridgman technique. <i>CrystEngComm</i> , 2018, 20, 4989-4996.	1.3	1
70	Novel Mn ⁴⁺ -activated LiLaMgWO ₆ far-red emitting phosphors: high photoluminescence efficiency, good thermal stability, and potential applications in plant cultivation LEDs. <i>RSC Advances</i> , 2018, 8, 27144-27151.	1.7	103
71	Synthesis and characterization of Ca ₃ Lu(GaO) ₃ (BO ₃) ₄ :Ce ³⁺ , Tb ³⁺ phosphors: tunable-color emissions, energy transfer, and thermal stability. <i>RSC Advances</i> , 2018, 8, 23284-23293.	1.7	14
72	Novel high color purity and thermally stable Eu ³⁺ ions activated Ba ₂ Gd ₅ B ₅ O ₁₇ red emitting phosphor for near-UV based WLEDs. <i>Optical Materials</i> , 2018, 84, 312-317.	1.7	18

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73	Synthesis, energy transfer and photoluminescence properties of thermal-stable multicolour-emitting $\text{Ca}_3\text{Gd}(\text{AlO})_3(\text{BO}_3)_4:\text{Tb}^{3+}, \text{Eu}^{3+}$ phosphors. <i>Journal of Luminescence</i> , 2018, 204, 386-393.	1.5	25
74	Synthesis and photoluminescence properties of novel far-red-emitting $\text{BaLaMgNbO}_6:\text{Mn}^{4+}$ phosphors for plant growth LEDs. <i>RSC Advances</i> , 2018, 8, 28538-28545.	1.7	93
75	Novel $\text{SrLaAlO}_4:\text{Mn}^{4+}$ deep-red emitting phosphors with excellent responsiveness to phytochrome P _{FR} for plant cultivation LEDs: synthesis, photoluminescence properties, and thermal stability. <i>RSC Advances</i> , 2018, 8, 30223-30229.	1.7	60
76	Enhanced efficiency of luminescence with stoichiometry control in $\text{LiGd}(\text{W}_{1-x}\text{Mo}_x\text{O}_4)_2:\text{Eu}^{3+}$ red phosphors. <i>Journal of Crystal Growth</i> , 2017, 468, 766-769.	0.7	10
77	$\text{Dy}^{3+}/\text{Eu}^{3+}$ co-doped $\text{CsGd}(\text{MoO}_4)_2$ phosphor with tunable photoluminescence properties for near-UV WLEDs applications. <i>Dyes and Pigments</i> , 2017, 137, 244-255.	2.0	105
78	Comparative analysis of $\text{LiGd}(\text{WO}_4)_2:\text{Eu}^{3+}$ phosphors derived by sol gel and hydrothermal methods. <i>Journal of Crystal Growth</i> , 2017, 468, 159-161.	0.7	4
79	Eu^{3+} ion concentration induced 3D luminescence properties of novel red-emitting $\text{Ba}_4\text{La}_6(\text{SiO}_4)_2\text{O}:\text{Eu}^{3+}$ oxyapatite phosphors for versatile applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1039-1050.	2.7	63
80	Spectroscopic properties of $\text{Eu}^{3+}:\text{KLa}(\text{WO}_4)_2$ novel red phosphors. <i>Journal of Luminescence</i> , 2016, 170, 547-555.	1.5	51
81	Photoluminescence properties of $\text{Eu}^{3+}:\text{RbGd}(\text{WO}_4)_2$ red phosphors prepared by sol-gel method. <i>Journal of Luminescence</i> , 2016, 170, 825-834.	1.5	40
82	Sol-gel synthesis and photoluminescence analysis of $\text{Sm}^{3+}:\text{NaGd}(\text{WO}_4)_2$ phosphors. <i>Journal of Luminescence</i> , 2016, 170, 743-748.	1.5	48
83	Photoluminescence properties of novel Sm^{3+} and Dy^{3+} co-activated $\text{CsGd}(\text{WO}_4)_2$ phosphors. <i>Journal of Alloys and Compounds</i> , 2015, 637, 350-360.	2.8	32
84	Sol-gel synthesis and photoluminescence studies on colour tuneable $\text{Dy}^{3+}/\text{Tm}^{3+}$ co-doped $\text{NaGd}(\text{WO}_4)_2$ phosphor for white light emission. <i>Journal of Luminescence</i> , 2015, 157, 357-364.	1.5	32
85	Sol-gel synthesis and luminescent properties of $\text{Eu}^{3+}:\text{CsGd}(\text{WO}_4)_2$ red emitting phosphors. <i>Journal of Luminescence</i> , 2014, 146, 458-463.	1.5	21
86	Sol-gel synthesis and characterizations of crystalline $\text{NaGd}(\text{WO}_4)_2$ powder for anisotropic transparent ceramic laser application. <i>Optical Materials</i> , 2013, 35, 740-743.	1.7	37
87	Novel $\text{KGd}_{1-x}\text{Eu}_x\text{Bi}_y(\text{W}_{1-z}\text{Mo}_z\text{O}_4)_2$ nanocrystalline red phosphors for tricolor white LEDs. <i>Journal of Luminescence</i> , 2013, 134, 244-250.	1.5	25
88	Synthesis and characterization of monoclinic $\text{KGd}(\text{WO}_4)_2$ particles for non-cubic transparent ceramics. <i>Optical Materials</i> , 2013, 35, 753-756.	1.7	17
89	Investigation of structural and luminescent properties of Pr^{3+} activated $\text{CsGd}(\text{WO}_4)_2$ by sol-gel synthesis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 762-767.	1.7	15
90	Growth, vibrational and luminescence analysis of monoclinic $\text{KGd}(\text{W}_{1-x}\text{Pr}_x\text{O}_4)_2$ ($x=0.005, 0.02, 0.05$) single crystals. <i>Journal of Crystal Growth</i> , 2013, 362, 319-323.	0.7	9

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91	SiO ₂ /KGd(WO ₄) ₂ :Eu ³⁺ composite luminescent nanoparticles: Synthesis and characterization. Materials Chemistry and Physics, 2012, 135, 1115-1121.	2.0	19