Zhendong Hao

List of Publications by Year
in descending order

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112 papers	4,905 citations	109264 35 h-index	106281 65 g-index
117 all docs	117 docs citations	117 times ranked	3219 citing authors

#	Article	IF	Citations
1	Green upconversion luminescence of Er3+ and Yb3+ codoped Gd2Mo4O15 for optical temperature sensing. Journal of Alloys and Compounds, 2022, 895, 162516.	2.8	10
2	Cr3+-doped broadband near infrared diopside phosphor for NIR pc-LED. Materials Research Bulletin, 2022, 149, 111725.	2.7	29
3	Cr3+ and Nd3+ co-activated garnet phosphor for NIR super broadband pc-LED application. Materials Research Bulletin, 2022, 151, 111797.	2.7	12
4	Highly efficient and thermally robust cyan-green phosphor-in-glass films for high-brightness laser lighting. Journal of Materials Chemistry C, 2021, 9, 12342-12352.	2.7	16
5	Phosphor-SiO2 composite films suitable for white laser lighting with excellent color rendering. Journal of the European Ceramic Society, 2020, 40, 2439-2444.	2.8	51
6	Enhancing IR to NIR upconversion emission in Er3+-sensitized phosphors by adding Yb3+ as a highly efficient NIR-emitting center for photovoltaic applications. CrystEngComm, 2020, 22, 229-236.	1.3	7
7	Comment on â€œZero-thermal-quenching and photoluminescence tuning with assistance of carriers from defect cluster trapsâ€•by Chen et al., J. Mater. Chem. C, 2018, 6, 10687â€“10692. Journal of Materials Chemistry C, 2020, 8, 1151-1152.	2.7	3
8	Multi-peaked broad-band red phosphor Y3Si6N11:Pr3+ for white LEDs and temperature sensing. Dalton Transactions, 2020, 49, 17779-17785.	1.6	7
9	On the luminescence of Ti⁴⁺ and Eu³⁺ in monoclinic ZrO₂: high performance optical thermometry derived from energy transfer. Journal of Materials Chemistry C, 2020, 8, 4518-4533.	2.7	29
10	Efficient Super Broadband NIR Ca₂LuZr₂Al₃O₁₂:Cr³⁺,Yb³⁺ Garnet Phosphor for pcâ€LED Light Source toward NIR Spectroscopy Applications. Advanced Optical Materials, 2020, 8, 1901684.	3.6	175
11	Laserâ€quality Tm:(Lu_{0.8}Sc_{0.2})₂O₃ mixed sesquioxide ceramics shaped by gelcasting of wellâ€dispersed nanopowders. Journal of the American Ceramic Society, 2019, 102, 4919-4928.	1.9	15
12	Cr³⁺â€Doped Broadband NIR Garnet Phosphor with Enhanced Luminescence and its Application in NIR Spectroscopy. Advanced Optical Materials, 2019, 7, 1900185.	3.6	257
13	Observation of a red Ce3+ center in SrLu2O4:Ce3+ phosphor and its potential application in temperature sensing. Dalton Transactions, 2019, 48, 5263-5270.	1.6	22
14	Efficient Visible-to-NIR Spectral Conversion for Polycrystalline Si Solar Cells and Revisiting the Energy Transfer Mechanism from Ce³⁺ to Yb³⁺ in Lu₃Al₅O₁₂ Host. Inorganic Chemistry, 2019, 58, 234-242.	1.9	10
15	An efficient blue phosphor Ba 2 Lu 5 B 5 O 17 :Ce 3+ stabilized by La 2 O 3 : Photoluminescence properties and potential use in white LEDs. Dyes and Pigments, 2018, 154, 121-127.	2.0	30
16	Er³⁺/Yb³⁺ codoped phosphor Ba₃Y₄O₉ with intense red upconversion emission and optical temperature sensing behavior. Journal of Materials Chemistry C, 2018, 6, 3459-3467.	2.7	99
17	A high efficiency broad-band near-infrared Ca₂LuZr₂Al₃O₁₂:Cr³⁺ garnet phosphor for blue LED chips. Journal of Materials Chemistry C, 2018, 6, 4967-4976.	2.7	244
18	A novel upconversion luminescent material: Li + - or Mg 2+ -codoped Bi 3.84 W 0.16 O 6.24 :Tm 3+ , Yb 3+ phosphors and their temperature sensing properties. Dyes and Pigments, 2018, 151, 287-295.	2.0	39

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19	An efficient green phosphor of Ce³⁺ and Tb³⁺-codoped Ba₂Lu₅B₅O₁₇ and a model for elucidating the high thermal stability of the green emission. Journal of Materials Chemistry C, 2018, 6, 5984-5991.	2.7	39
20	Highly efficient upconversion emission of Er³⁺ in Î´-Sc₄Zr₃O₁₂ and broad-range temperature sensing. Physical Chemistry Chemical Physics, 2018, 20, 14461-14468.	1.3	20
21	Dye-embedded YAG:Ce³⁺@SiO₂composite phosphors toward warm wLEDs through radiative energy transfer: preparation, characterization and luminescence properties. Nanoscale, 2018, 10, 22237-22251.	2.8	25
22	Two Ce3+ centers induced broadband emission in Y3Si6N11:Ce3+ yellow phosphor. Dalton Transactions, 2018, 47, 16723-16728.	1.6	11
23	A highly efficient and thermally stable green phosphor (Lu₂SrAl₄SiO₁₂:Ce³⁺) for full-spectrum white LEDs. Journal of Materials Chemistry C, 2018, 6, 12159-12163.	2.7	73
24	Efficient Blue-emitting Phosphor SrLu2O4:Ce3+ with High Thermal Stability for Near Ultraviolet (~400â€‰nm) LED-Chip based White LEDs. Scientific Reports, 2018, 8, 10463.	1.6	27
25	Investigation of the Energy-Transfer Mechanism in Ho³⁺- and Yb³⁺-Codoped Lu₂O₃ Phosphor with Efficient Near-Infrared Downconversion. Inorganic Chemistry, 2017, 56, 1498-1503.	1.9	22
26	Cooperative Upconversion Luminescence Properties of Yb³⁺ and Tb³⁺ Heavily Codoped Silicate Garnet Obtained by Multiple Chemical Unit Cosubstitution. Journal of Physical Chemistry C, 2017, 121, 2998-3006.	1.5	15
27	The dominant role of excitation diffusion in energy transfer upconversion of Lu2O3: Tm3+, Yb3+. Journal of Alloys and Compounds, 2017, 704, 206-211.	2.8	7
28	Observation and photoluminescence properties of two Er3+ centers in CaSc2O4:Er3+, Yb3+ upconverting phosphor. Journal of Alloys and Compounds, 2017, 708, 827-833.	2.8	9
29	Enhanced emission of Tm3+:3F4Âà†'Â3H6 transition by backward energy transfer from Yb3+ in Y2O3 for mid-infrared applications. Journal of Alloys and Compounds, 2017, 722, 48-53.	2.8	8
30	Eff icient energy back transfer from Ce 3+ 5d state to Pr 3+ 1 D 2 level in Lu 3 Al 5 O 12 upon Pr 3+ 4f5d excitation. Journal of Luminescence, 2017, 186, 170-174.	1.5	10
31	Near-infrared quantum cutting and energy transfer mechanism in Lu2O3: Tm3+/Yb3+ phosphor for high-efficiency photovoltaics. Journal of Materials Science: Materials in Electronics, 2017, 28, 8017-8022.	1.1	6
32	Synthesis and photoluminescence properties of Eu 2+ activated CaO ceramic powders for near-ultraviolet chip based white light emitting diodes. Optical Materials, 2017, 71, 1-4.	1.7	6
33	Highly Efficient Green-Emitting Phosphors Ba₂Y₅B₅O₁₇ with Low Thermal Quenching Due to Fast Energy Transfer from Ce³⁺ to Tb³⁺. Inorganic Chemistry, 2017, 56, 4538-4544.	1.9	93
34	Simultaneously tuning the emission color and improving thermal stability via energy transfer in apatite-type phosphors. Journal of Materials Chemistry C, 2017, 5, 11910-11919.	2.7	55
35	Enhanced âˆ¼2 Î¼m Emission of Tm³⁺ in Lu₂O₃ by Addition of a Trace Amount of Er³⁺. Inorganic Chemistry, 2017, 56, 13062-13069.	1.9	3
36	Inhomogeneous-Broadening-Induced Intense Upconversion Luminescence in Tm3+ and Yb3+ Codoped Lu2O3â€“ZrO2 Disordered Crystals. Inorganic Chemistry, 2017, 56, 12291-12296.	1.9	4

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37	The Inductive Effect of Neighboring Cations in Tuning Luminescence Properties of the Solid Solution Phosphors. Inorganic Chemistry, 2017, 56, 9938-9945.	1.9	20
38	Enhanced 3H4-3F4 nonradiative relaxation of Tm3+ through energy transfer to Yb3+ and efficient back transfer in lowly Tm3+ doped Lu1.6Sc0.4O3:Tm3+, Yb3+. Journal of Alloys and Compounds, 2017, 696, 627-631.	2.8	7
39	Photoluminescence properties of a novel red-emitting phosphor Eu 3+ activated scandium molybdate for white light emitting diodes. Materials Research Bulletin, 2016, 83, 290-293.	2.7	27
40	Low-Concentration Eu²⁺-Doped SrAlSi₄N₇: Ce³⁺ Yellow Phosphor for wLEDs with Improved Color-Rendering Index. Inorganic Chemistry, 2016, 55, 9736-9741.	1.9	30
41	Site distortion in Li2SrSiO4: Influence on Pr3+ emission and application in wLED. Journal of Luminescence, 2016, 180, 158-162.	1.5	14
42	Red emission generation through highly efficient energy transfer from Ce³⁺ to Mn²⁺ in CaO for warm white LEDs. Dalton Transactions, 2016, 45, 1539-1545.	1.6	33
43	Intense Upconversion Luminescence of CaSc2O4:Ho3+/Yb3+from Large Absorption Cross Section and Energy-Transfer Rate of Yb3+. ChemPhysChem, 2015, 16, 1366-1369.	1.0	11
44	Observation of efficient population of the red-emitting state from the green state by non-multiphonon relaxation in the Er3+â€“Yb3+ system. Light: Science and Applications, 2015, 4, e239-e239.	7.7	185
45	Blue-Emitting K₂Al₂B₂O₇:Eu²⁺ Phosphor with High Thermal Stability and High Color Purity for Near-UV-Pumped White Light-Emitting Diodes. Inorganic Chemistry, 2015, 54, 3189-3195.	1.9	137
46	Efficient Near-Infrared Downconversion and Energy Transfer Mechanism of Ce³⁺/Yb³⁺ Codoped Calcium Scandate Phosphor. Inorganic Chemistry, 2015, 54, 4806-4810.	1.9	49
47	Importance of Suppression of Yb³⁺ De-Excitation to Upconversion Enhancement in Î²-NaYF₄: Yb³⁺/Er³⁺@Î²-NaYF₄ Sandwiched Structure Nanocrystals. Inorganic Chemistry, 2015, 54, 3921-3928.	1.9	29
48	Decrease in particle size and enhancement of upconversion emission through Y³⁺ions doping in hexagonal NaLuF₄:Yb³⁺/Er³⁺nanocrystals. CrystEngComm, 2015, 17, 3103-3109.	1.3	40
49	Zinc titanium glycolate acetate hydrate and its transformation to zinc titanate microrods: synthesis, characterization and photocatalytic properties. RSC Advances, 2015, 5, 88590-88601.	1.7	16
50	Solvothermal synthesis and upconversion properties of about 10 nm orthorhombic LuF3: Yb3+, Er3+ rectangular nanocrystals. Journal of Colloid and Interface Science, 2015, 459, 224-229.	5.0	21
51	Luminescence Properties of Tb³⁺, Eu³⁺, Tm³⁺ Co-Doped Na₅La(MoO₄)₄ for White Light-Emitting Diode. Journal of Nanoscience and Nanotechnology, 2014, 14, 3683-3686.	0.9	10
52	Efficient and tuneable photoluminescent boehmite hybrid nanoplates lacking metal activator centres for single-phase white LEDs. Nature Communications, 2014, 5, 5702.	5.8	146
53	An intense blue-emitting phosphor for near-ultraviolet pumped white-light-emitting diodes: Ce3+-activated Î²-Ca2SiO4. Journal of Luminescence, 2014, 152, 40-43.	1.5	29
54	Synthesis and photoluminescence properties of Eu2+ doped Sr9Sc(PO4)7 phosphors for white light-emitting diodes. Ceramics International, 2014, 40, 5421-5423.	2.3	18

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55	Photostimulated luminescence of Sr3Al2O5Cl2:Eu2+, Tm3+ with a large energy storage capacity. Journal of Luminescence, 2014, 145, 657-660.	1.5	11
56	Cooperative downconversion and near infrared luminescence of Tm3+/Yb3+ codoped Calcium Scandate phosphor. Journal of Alloys and Compounds, 2014, 583, 96-99.	2.8	39
57	Red emission of additional Pr^3+ and adjusting effect of additional Mg^2+ in Ca_3Sc_2Si_3O_12:Ce^3+, Mn^2+ phosphor. Optics Letters, 2014, 39, 2691.	1.7	6
58	Transition to cubic phase and enhancement of green upconversion emission by adding La3+ ions in hexagonal NaLuF4:Yb3+/Er3+ nanocrystals. CrystEngComm, 2014, 16, 2499.	1.3	26
59	Towards efficient solid-state photoluminescence based on carbon-nanodots and starch composites. Nanoscale, 2014, 6, 13076-13081.	2.8	193
60	The energy transfer mechanism in Pr3+and Yb3+codoped Î²-NaLuF4nanocrystals. Physical Chemistry Chemical Physics, 2014, 16, 9289-9293.	1.3	20
61	Yellow-Emitting Sr9Sc(PO4)7:Eu2+, Mn2+Phosphor with Energy Transfer for Potential Application in White Light-Emitting Diodes. European Journal of Inorganic Chemistry, 2014, 2014, 870-874.	1.0	36
62	New orangeâ€“red phosphor Sr9Sc(PO4)7:Eu3+ for NUV-LEDs application. Journal of Alloys and Compounds, 2014, 587, 493-496.	2.8	54
63	The energy transfer and effect of doped Mg²⁺ in Ca₃Sc₂Si₃O₁₂:Ce³⁺, Pr³⁺ phosphor for white LEDs. Dalton Transactions, 2014, 43, 4146-4150.	1.6	27
64	Optical properties and energy transfers of Ce3+ and Mn2+ in Ba9Sc2(SiO4)6. Journal of Luminescence, 2014, 146, 321-324.	1.5	17
65	Luminescence and energy transfer mechanism in Sr9Sc(PO4)7: Ce3+, Mn2+ phosphor. Journal of Luminescence, 2014, 148, 60-63.	1.5	20
66	Luminescence and energy transfer in Ca3Sc2Si3O12:Ce3+,Mn2+ white LED phosphors. Journal of Luminescence, 2013, 133, 21-24.	1.5	84
67	New Yellow-Emitting Nitride Phosphor SrAlSi₄N₇:Ce³⁺ and Important Role of Excessive AlN in Material Synthesis. ACS Applied Materials & Interfaces, 2013, 5, 12839-12846.	4.0	87
68	Hydrothermal synthesis and upconversion luminescence properties of Î²-NaGdF 4 :Yb 3+ /Tm 3+ and Î²-NaGdF 4 :Yb 3+ /Ho 3+ submicron crystals with regular morphologies. Journal of Colloid and Interface Science, 2013, 392, 206-212.	5.0	39
69	Enhanced orange-red emission by using Mo codoped in Ba2CaWO6: Eu3+, Li+ phosphor under near UV excitation. Journal of Luminescence, 2013, 134, 191-194.	1.5	21
70	Synthesis, morphology, and upconversion luminescence of Tm3+/Yb3+ codoped bulk and submicro-rod CaSc2O4 phosphors. Inorganic Chemistry Communication, 2013, 38, 119-122.	1.8	8
71	Enhanced Ce3+ photoluminescence by Li+ co-doping in CaO phosphor and its use in blue-pumped white LEDs. Journal of Luminescence, 2013, 140, 78-81.	1.5	28
72	Preparation and photoluminescence properties of single-phase Ca2SiO3Cl2:Eu2+ bluish-green emitting phosphor. Materials Letters, 2013, 93, 272-274.	1.3	10

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73	Formation condition of red Ce^3+ in Ca_3Sc_2Si_3O_12:Ce^3+, N^3â^' as a full-color-emitting light-emitting diode phosphor. Optics Letters, 2013, 38, 884.	1.7	10
74	Strongly enhancing photostimulated luminescence by doping Tm^3+ in Sr_3SiO_5: Eu^2+. Optics Letters, 2013, 38, 148.	1.7	34
75	Upconversion properties and dynamics study in Tm3+ and Yb3+ codoped CaSc2O4 oxide material. Journal of Applied Physics, 2013, 113, .	1.1	35
76	Spectroscopic Properties and Upconversion Studies in Ho³⁺/Yb³⁺ Coâ€doped Calcium Scandate with Spectrally Pure Green emission. ChemPhysChem, 2013, 14, 4114-4120.	1.0	22
77	Dual Color Emissions of Sr_{2â^'x}Ca_xP₂O₇: Eu²⁺, Mn²⁺for near UV Excitation. Journal of the Electrochemical Society, 2012, 159, F56-F61.	1.3	9
78	Interionic Energy Transfer in Y₃Al₅O₁₂: Ce³⁺, Pr³⁺, Cr³⁺Phosphor. Journal of the Electrochemical Society, 2012, 159, F68-F72.	1.3	22
79	Intense upconversion luminescence and origin study in Tm3+/Yb3+ codoped calcium scandate. Applied Physics Letters, 2012, 101, .	1.5	44
80	Blue emission of Sr2â^'xCaxP2O7:Eu2+ for near UV excitation. Journal of Alloys and Compounds, 2012, 515, 39-43.	2.8	21
81	Luminescence investigation and thermal stability study of Eu2+ and Eu2+â€“Mn2+ codoped (Ba,Sr)Mg2Al6Si9O30 phosphor. Journal of Alloys and Compounds, 2012, 513, 430-435.	2.8	23
82	Yellow-emitting (Ca2Lu1â^'xCex)(ScMg)Si3O12 phosphor and its application for white LEDs. Materials Research Bulletin, 2012, 47, 1149-1152.	2.7	21
83	Photoluminescence properties of CaO:Ce3+,Na+, a non-garnet yellow-emitting phosphor under blue light excitation. Materials Letters, 2012, 68, 443-445.	1.3	15
84	A new dual-emission phosphor Ca4Si2O7F2:Ce3+, Mn2+ with energy transfer for near-UV LEDs. Materials Letters, 2012, 77, 45-47.	1.3	24
85	Crystal structure and luminescence properties of Lu3+ and Mg2+ incorporated silicate garnet [Ca3â^'(x+0.06)LuxCe0.06](Sc2â^'yMgy)Si3O12. Journal of Luminescence, 2012, 132, 1257-1260.	1.5	17
86	Spectral tuning and energy transfer in a potential fluorescent lamp phosphor BaMg2Al6Si9O30:Eu2+. Journal of Luminescence, 2012, 132, 2439-2442.	1.5	11
87	A new emission band of Eu2+ and its efficient energy transfer to Mn2+ in Sr2Mg3P4O15:Mn2+, Eu2+. Chemical Communications, 2011, 47, 12376.	2.2	36
88	Tunable Full-Color Emitting BaMg₂Al₆Si₉O₃₀:Eu²⁺, Tb³⁺, Mn²⁺ Phosphors Based on Energy Transfer. Inorganic Chemistry, 2011, 50, 7846-7851.	1.9	197
89	Tunable full-color-emitting Ca3Sc2Si3O12:Ce3+, Mn2+ phosphor via charge compensation and energy transfer. Chemical Communications, 2011, 47, 10677.	2.2	225
90	Crystal structure and luminescence properties of (Ca_{2.94â^'x}Lu_xCe_{0.06})(Sc_{2â^'y}Mg_y)Si₃O₁₂ phosphors for white LEDs with excellent colour rendering and high luminous efficiency. Journal Physics D: Applied Physics, 2011, 44, 075402.	1.3	23

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91	Generating yellow and red emissions by co-doping Mn2+ to substitute for Ca2+ and Sc3+ sites in Ca3Sc2Si3O12:Ce3+ green emitting phosphor for white LED applications. Journal of Materials Chemistry, 2011, 21, 16379.	6.7	100
92	Synthesis and luminescence properties of clew-like CaMoO4:Sm3+, Eu3+. Journal of Alloys and Compounds, 2011, 509, L348-L351.	2.8	48
93	Generation of broadband emission by incorporating N3â^' into Ca3Sc2Si3O12â€‰:â€‰Ce3+ garnet for high rendering white LEDs. Journal of Materials Chemistry, 2011, 21, 6354.	6.7	94
94	Color control and white light generation of upconversion luminescence by operating dopant concentrations and pump densities in Yb3+, Er3+ and Tm3+ tri-doped Lu2O3 nanocrystals. Journal of Materials Chemistry, 2011, 21, 2895.	6.7	90
95	Dynamical processes of energy transfer in red emitting phosphor CaMoO4:Sm3+, Eu3+. Optical Materials, 2011, 33, 1591-1594.	1.7	33
96	Near UV and blue-based LED fabricated with Ca8Zn(SiO4)4Cl2:Eu2+ as green-emitting phosphor. Optical Materials, 2011, 34, 261-264.	1.7	11
97	CaSc2O4:Eu3+: A tunable full-color emitting phosphor for white light emitting diodes. Optical Materials, 2011, 33, 355-358.	1.7	62
98	Ca3Al2(SiO4)3â^'Î´Cl4Î´:Eu2+, Mn2+: A potential phosphor with energy transfer for near-UV pumped white-LEDs. Optical Materials, 2011, 33, 1262-1265.	1.7	16
99	Energy transfer in Y3Al5O12:Ce3+, Pr3+ and CaMoO4:Sm3+, Eu3+ phosphors. Journal of Luminescence, 2011, 131, 429-432.	1.5	33
100	Intense green/yellow emission in Ca8Zn(SiO4)4Cl2:Eu2+, Mn2+ through energy transfer for blue-LED lighting. Journal of Luminescence, 2011, 131, 2387-2390.	1.5	12
101	Eu[sup 2+]-Activated Ca[sub 8]Zn(SiO[sub 4])[sub 4]Cl[sub 2]: An Intense Green Emitting Phosphor for Blue Light Emitting Diodes. Journal of the Electrochemical Society, 2011, 158, H124.	1.3	13
102	Enhanced phosphorescence in N contained Ba2SiO4:Eu2+ for X-ray and cathode ray tubes. Optical Materials, 2010, 32, 1042-1045.	1.7	22
103	Long-Lasting Phosphorescence in BaSi[sub 2]O[sub 2]N[sub 2]:Eu[sup 2+] and Ba[sub 2]SiO[sub 4]:Eu[sup 2+] Phases for X-Ray and Cathode Ray Tubes. Journal of the Electrochemical Society, 2010, 157, H178.	1.3	14
104	Interionic energy transfer in Y3Al5O12:Ce3+, Pr3+ phosphor. Journal of Applied Physics, 2010, 108, .	1.1	66
105	Enriching red emission of Y_3Al_5O_12: Ce^3+ by codoping Pr^3+ and Cr^3+ for improving color rendering of white LEDs. Optics Express, 2010, 18, 25177.	1.7	81
106	Color tunable phosphorescence in KY3F10:Tb3+ for x-ray or cathode-ray tubes. Journal of Applied Physics, 2009, 106, .	1.1	38
107	Effect of retrapping on photostimulated luminescence in Sr3SiO5:Eu2+, Dy3+ phosphor. Journal of Applied Physics, 2009, 105, .	1.1	35
108	Blue-Green-Emitting Phosphor CaSc[sub 2]O[sub 4]:Tb[sup 3+]: Tunable Luminescence Manipulated by Cross-Relaxation. Journal of the Electrochemical Society, 2009, 156, H193.	1.3	74

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109	Phase dependent photoluminescence and energy transfer in Ca2P2O7: Eu2+, Mn2+ phosphors for white LEDs. Journal of Luminescence, 2008, 128, 941-944.	1.5	32
110	Luminescence and Energy Transfer in Eu[sup 2+] and Mn[sup 2+] Co-doped Ca[sub 2]P[sub 2]O[sub 7] for White Light-Emitting Diodes. Journal of the Electrochemical Society, 2008, 155, H606.	1.3	25
111	Intense violet-blue emitting (CaCl2/SiO2)â€‰:â€‰Eu2+phosphor powders for applications in UV-LED based phototherapy illuminators. Journal Physics D: Applied Physics, 2008, 41, 182001.	1.3	18
112	White light emitting diode by using Î±-Ca2P2O7:Eu2+, Mn2+ phosphor. Applied Physics Letters, 2007, 90, 261113.	1.5	159