Jianxin Shi

List of Publications by Year
in descending order

114 papers	5,543 citations	71102 41 h-index	88630 70 g-index
114 all docs	114 docs citations	114 times ranked	3617 citing authors

#	Article	IF	Citations
1	Mn²⁺and Mn⁴⁺red phosphors: synthesis, luminescence and applications in WLEDs. A review. Journal of Materials Chemistry C, 2018, 6, 2652-2671.	5.5	511
2	Advanced red phosphors for white light-emitting diodes. Journal of Materials Chemistry C, 2016, 4, 8611-8623.	5.5	382
3	A novel blue-emitting phosphor LiSrPO4:Eu2+ for white LEDs. Journal of Solid State Chemistry, 2006, 179, 2356-2360.	2.9	238
4	Tunable Luminescence and Ce³⁺ â† Tb³⁺ â† Eu³⁺ Energy Transfer of Broadband-Excited and Narrow Line Red Emitting Y₂SiO₅:Ce³⁺, Tb³⁺, Eu³⁺ Phosphor. Journal of Physical Chemistry C, 2014, 118, 7591-7598.	3.1	211
5	K₂Ln(PO₄)(WO₄):Tb³⁺,Eu³⁺ (Ln = Y, Gd) Tj ETQq1 1 0.784314 rgBT / Journal of Materials Chemistry C, 2015, 3, 2107-2114.	5.5	175
6	Layered Structure Produced Nonconcentration Quenching in a Novel Eu³⁺-Doped Phosphor. ACS Applied Materials & Interfaces, 2018, 10, 41479-41486.	8.0	133
7	Synthesis and Electronic Properties of New Photoluminescent Platinum-Containing Polyynes with 9,9-Dihexylfluorene and 9-Butylcarbazole Units. Macromolecules, 2002, 35, 3506-3513.	4.8	123
8	White Light Emission and Enhanced Color Stability in a Single-Component Host. ACS Applied Materials & Interfaces, 2018, 10, 18066-18072.	8.0	117
9	A novel multi-center activated single-component white light-emitting phosphor for deep UV chip-based high color-rendering WLEDs. Chemical Engineering Journal, 2020, 390, 124601.	12.7	116
10	Binuclear Gold(I) and Mercury(II) Derivatives of Diethynylfluorenes. Organometallics, 2001, 20, 5446-5454.	2.3	107
11	A novel narrow-line red emitting Na2Y2B2O7:Ce3+,Tb3+,Eu3+ phosphor with high efficiency activated by terbium chain for near-UV white LEDs. Dalton Transactions, 2013, 42, 16621.	3.3	93
12	Triplet Emission in Soluble Mercury(II) Polyyne Polymers. Angewandte Chemie - International Edition, 2003, 42, 4064-4068.	13.8	87
13	Synthesis of magnetic nickel spinel ferrite nanospheres by a reverse emulsion-assisted hydrothermal process. Journal of Solid State Chemistry, 2009, 182, 2135-2140.	2.9	79
14	Visible-Light Excitable Europium(III) Complexes with 2,7-Positional Substituted Carbazole Group-Containing Ligands. Inorganic Chemistry, 2009, 48, 11382-11387.	4.0	77
15	A novel red emitting phosphor Ca2SnO4: Eu3+. Journal of Solid State Chemistry, 2005, 178, 917-920.	2.9	75
16	A bright and moisture-resistant red-emitting Lu₃Al₅O₁₂:Mn⁴⁺,Mg²⁺ garnet phosphor for high-quality phosphor-converted white LEDs. Journal of Materials Chemistry C, 2017, 5, 8828-8835.	5.5	75
17	Spatial Extent of the Singlet and Triplet Excitons in Luminescent Angular-Shaped Transition-Metal Diynes and Polyynes Comprising Non-Ï€-Conjugated Group 16 Main Group Elements. Chemistry - A European Journal, 2006, 12, 2550-2563.	3.3	73
18	Harvesting of Organic Triplet Emissions in Metal Diynes and Polyynes of Group 10â^'12 Transition Elements Containing the Conjugation-Interrupting Diphenylfluorene Unit. Macromolecules, 2004, 37, 4496-4504.	4.8	72

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19	Luminescence properties and energy transfer of YGa_{1.5}Al_{1.5}(BO₃)₄:Tb³⁺,Eu³⁺ as a multi-colour emitting phosphor for WLEDs. Journal of Materials Chemistry C, 2017, 5, 6294-6299.	5.5	71
20	Delayed Concentration Quenching of Luminescence Caused by Eu³⁺-Induced Phase Transition in LaSc₃(BO₃)₄. Chemistry of Materials, 2020, 32, 6958-6967.	6.7	71
21	Luminescence enhancement and energy transfers of Ce³⁺ and Sm³⁺ in CaSrSiO₄ phosphor. Journal of Materials Chemistry C, 2018, 6, 7612-7618.	5.5	65
22	Nanosized LiSrPO4:Eu2+ phosphor with blue-emission synthesized by the solâ€“gel method. Materials Chemistry and Physics, 2007, 103, 415-418.	4.0	64
23	Efficient energy transfer and luminescence properties of Ca₃Y(GaO)₃(BO₃)₄:Tb³⁺,Eu³⁺as a green-to-red colour tunable phosphor under near-UV excitation. Dalton Transactions, 2017, 46, 1885-1891.	3.3	64
24	Eu³⁺-Activated Sr₃ZnTa₂O₉ single-component white light phosphors: emission intensity enhancement and color rendering improvement. Journal of Materials Chemistry C, 2019, 7, 2596-2603.	5.5	63
25	A novel approach for preparation of Y2O3:Eu3+ nanoparticles by microemulsionâ€“microwave heating. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 103, 57-61.	3.5	62
26	Energy transfer and luminescent properties of Ca₈MgLu(PO₄)₇:Tb³⁺/Eu³⁺ as a green-to-red color tunable phosphor under NUV excitation. RSC Advances, 2015, 5, 59830-59836.	3.6	60
27	Standard White-Emitting Ca₈MgY(PO₄)₇:Eu²⁺,Mn²⁺Phosphor for White-Light-Emitting LEDs. ECS Journal of Solid State Science and Technology, 2013, 2, R178-R185.	1.8	59
28	Photoluminescent two-dimensional coordination polymers constructed with octanuclear silver(i) clusters or silver(i) ions. New Journal of Chemistry, 2002, 26, 814-816.	2.8	57
29	Studies of Terbium Bridge: Saturation Phenomenon, Significance of Sensitizer and Mechanisms of Energy Transfer, and Luminescence Quenching. ACS Applied Materials & Interfaces, 2014, 6, 10792-10801.	8.0	57
30	Oligo(fluorenyleneethynylenegermylene)s and their metallopolymers. Chemical Communications, 2004, , 2420.	4.1	55
31	Sr3.5Mg0.5Si3O8Cl4: Eu2+ bluishâ€“green-emitting phosphor for NUV-based LED. Materials Letters, 2009, 63, 852-854.	2.6	55
32	A novel pure red phosphor Ca8MgLu(PO4)7:Eu3+ for near ultraviolet white light-emitting diodes. Ceramics International, 2015, 41, 9610-9614.	4.8	55
33	Crystal structure and photoluminescence tuning of novel single-phase Ca₈ZnLu(PO₄)₇:Eu²⁺,Mn²⁺ phosphors for near-UV converted white light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 8374-8382.	5.5	52
34	Synthesis, structures and optical spectroscopy of photoluminescent platinum-linked poly(silylacetylenes). Dalton Transactions RSC, 2002, , 4587-4594.	2.3	49
35	Synthesis, vacuum ultraviolet and near ultraviolet-excited luminescent properties of GdCaAl3O7: RE3+ (RE=Eu, Tb). Journal of Solid State Chemistry, 2005, 178, 3004-3009.	2.9	48
36	Intense red-emitting phosphors for LED solid-state lighting. Materials Research Bulletin, 2007, 42, 1669-1673.	5.2	48

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37	Singleâ€Crystal Red Phosphors and Their Coreâ€“Shell Structure for Improved Waterâ€Resistance for Laser Diodes Applications. Angewandte Chemie - International Edition, 2021, 60, 3940-3945.	13.8	46
38	Concentration quenching of Eu2+ in a thermal-stable yellow phosphor Ca2BO3Cl:Eu2+ for LED application. Journal of Luminescence, 2012, 132, 914-918.	3.1	45
39	Synthesis and luminescent properties of SrAl2O4:Eu2+ green-emitting phosphor for white LEDs. Materials Letters, 2006, 60, 3499-3501.	2.6	43
40	A strong red-emitting carbazole based europium(iii) complex excited by blue light. Dalton Transactions, 2010, 39, 8919.	3.3	43
41	Near UV-based LED fabricated with Ba5SiO4(F,Cl)6:Eu2+ as blue- and green-emitting phosphor. Optical Materials, 2009, 32, 75-78.	3.6	41
42	Synthesis, Structures and Luminescent Properties ofÎ*f*-Alkynyl Complexes of Orthomercuriated Schiff Bases. European Journal of Inorganic Chemistry, 2004, 2004, 2066-2077.	2.0	40
43	A new luminescent material, Sr2SnO4:Eu3+. Journal of Alloys and Compounds, 2006, 415, 213-215.	5.5	40
44	Synthesis, spectroscopy, structures and photophysics of metal alkynyl complexes and polymers containing functionalized carbazole spacers. Journal of Organometallic Chemistry, 2006, 691, 4028-4041.	1.8	38
45	Synthesis and photoluminescence of Eu3+- or Tb3+-doped Mg2SiO4 nanoparticles prepared by a combined novel approach. Journal of Luminescence, 2006, 118, 257-264.	3.1	37
46	A novel green emitting phosphor Ca1.5Y1.5Al3.5Si1.5O12:Tb3+. Materials Chemistry and Physics, 2006, 100, 372-374.	4.0	35
47	The potential red emitting Gd2â^'yEuy (WO4)3â^'x(MoO4)x phosphors for UV InGaN-based light-emitting diode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 140, 69-72.	3.5	35
48	Morphology-controllable synthesis of tetragonal LaVO₄nanostructures. CrystEngComm, 2010, 12, 1079-1085.	2.6	35
49	Red phosphor SrY2O4:Eu3+ synthesized by the solâ€“gel method. Journal of Luminescence, 2005, 113, 285-290.	3.1	34
50	Synthesis and light-emitting properties of platinum-containing oligoynes and polyynes derived from oligo(fluorenyleneethynylenesilylene)s. Journal of Polymer Science Part A, 2006, 44, 4804-4824.	2.3	34
51	An Efficient Europium(III) Organic Complex as Red Phosphor Applied in LED. Journal of the Electrochemical Society, 2009, 156, E46.	2.9	34
52	Luminescent properties of Sr2MgSi2O7:Eu2+ as blue phosphor for NUV light-emitting diodes. Powder Technology, 2010, 204, 263-267.	4.2	34
53	Eu2+-activated Ba2Mg(BO3)2 yellow-emitting phosphors for near ultraviolet-based light-emitting diodes. Physica B: Condensed Matter, 2011, 406, 2616-2620.	2.7	32
54	LiSrBO3:Eu2+: A novel broad-band red phosphor under the excitation of a blue light. Materials Letters, 2012, 79, 100-102.	2.6	32

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55	Luminescence and energy transfer of a color tunable phosphor Tb3+, Eu3+ co-doped KCaY(PO4)2. Materials Letters, 2014, 137, 32-35.	2.6	32
56	Synthesis and luminescent properties of phosphor. Journal of Physics and Chemistry of Solids, 2007, 68, 1471-1475.	4.0	31
57	Luminescent properties of Ba3Gd(BO3) 3:Eu3+ phosphor for white LED applications. Journal of Rare Earths, 2009, 27, 54-57.	4.8	30
58	Ca₃Lu(AlO)₃(BO₃)₄â€‰:â€‰Sm³⁺: a novel red-emitting phosphor with high colour purity for NUV-based warm white LEDs. RSC Advances, 2018, 8, 40693-40700.	3.6	29
59	A novel blue magnesium strontium aluminate-based phosphor for PDP application. Solid State Communications, 2005, 134, 809-813.	1.9	28
60	A novel green emitting phosphor Ca2GeO4:Tb3+. Materials Research Bulletin, 2006, 41, 867-872.	5.2	28
61	Exploring 9-arylcarbazole moiety as the building block for the synthesis of photoluminescent group 10â€“12 heavy metal diynes and polyynes with high-energy triplet states. Journal of Polymer Science Part A, 2006, 44, 5588-5607.	2.3	27
62	Dibarium Magnesium Diphosphate Yellow Phosphor Applied in InGaN-based LEDs. Chemistry Letters, 2007, 36, 410-411.	1.3	27
63	A terbium-sensitized Eu3+-activated deep-red-emitting phosphor for plant growth LED application. Journal of Alloys and Compounds, 2021, 885, 160966.	5.5	27
64	Synthesis, Optical Properties, and Photoluminescence of Organometallic Acetylide Polymers of Platinum Functionalized with Si and Ge-Bridged Bis(3,6-Diethynyl-9-butylcarbazole). Journal of Inorganic and Organometallic Polymers and Materials, 2007, 17, 189-200.	3.7	26
65	An efficient luminescent bonding-type Eu-containing copolymer as a red-emitting phosphor for fabrication of LED. Synthetic Metals, 2011, 161, 748-752.	3.9	26
66	Improving thermal stability of novel single-component white-light emitting phosphor Ca8MgLu(PO4)7:Tm3+, Dy3+ by back-energy-transfer. Journal of Luminescence, 2020, 227, 117516.	3.1	26
67	Bright Green Emitting CaYAlO₄:Tb³⁺,Ce³⁺ Phosphor: Energy Transfer and 3Dâ€Printing Artwork. Advanced Optical Materials, 2020, 8, 2000523.	7.3	26
68	Energy transfer and luminescent properties of a green-to-red color tunable Tb 3+ , Eu 3+ co-doped K 2 Y(WO 4)(PO 4) phosphor. Materials Research Bulletin, 2014, 60, 300-307.	5.2	25
69	Luminescence properties of novel Eu3+ doped NaCaBO3 red phosphors. Ceramics International, 2014, 40, 14537-14541.	4.8	25
70	Efficient Luminescence Enhancement of Mg₂TiO₄:Mn⁴⁺ Red Phosphor by Incorporating Plasmonic Ag@SiO₂ Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 21004-21009.	8.0	25
71	Comparative investigation on synthesis and luminescence of Sr4Al14O25:Eu2+ applied in InGaN LEDs. Journal of Alloys and Compounds, 2008, 458, 134-137.	5.5	24
72	Synthesis and luminescent properties of GdSrAl3O7:Tb3+ phosphor under VUV/UV excitation. Journal of Alloys and Compounds, 2008, 463, 302-305.	5.5	24

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73	Luminescent properties of green- or red-emitting Eu2+-doped Sr3Al2O6 for LED. Journal of Luminescence, 2011, 131, 2463-2467.	3.1	24
74	Structure and photoluminescence properties of Na2Y2B2O7:Ce3+,Tb3+ phosphors for solid-state lighting application. Journal of Solid State Chemistry, 2014, 213, 65-71.	2.9	24
75	Sr3La(PO4)3:Eu2+,Mn2+: A single-phased color-tunable phosphor and its energy transfer behavior. Journal of Luminescence, 2015, 157, 352-356.	3.1	24
76	Synthesis and luminescent properties of Sr4Al14O25:Eu2+ blueâ€“green emitting phosphor for white light-emitting diodes (LEDs). Journal of Materials Science: Materials in Electronics, 2008, 19, 339-342.	2.2	22
77	Effect of Different Alkyl Groups at the N-Position on the Luminescence of Carbazole-Based Î²-Diketonate Europium(III) Complexes. Journal of Physical Chemistry A, 2009, 113, 12885-12890.	2.5	22
78	An efficient bonding-type Eu-containing copolymer as red phosphor applied in LED. Inorganic Chemistry Communication, 2011, 14, 1065-1068.	3.9	22
79	Photoluminescence properties of color-tunable novel Na2Ca4(PO4)2SiO4:Ce3+, Tb3+ near ultraviolet convertible phosphors. Materials Letters, 2014, 125, 63-66.	2.6	21
80	A novel Mn⁴⁺-activated fluoride red phosphor Cs₃₀(Nb₂O₂F₉)₉(OH)₃Â·H₂O:Mn<sup>4+ with good waterproof stability for WLEDs. Journal of Materials Chemistry C, 2022, 10, 7049-7057.	5.5	21
81	A novel approach for preparation of Zn2SiO4:Tb nanoparticles by sol-gel-microwave heating. Journal of Materials Science, 2005, 40, 6007-6010.	3.7	20
82	A novel red phosphor Na2Ca4Mg2Si4O15:Eu3+ for plasma display panels. Materials Research Bulletin, 2008, 43, 2295-2299.	5.2	20
83	A novel red phosphor: Ca2GeO4:Eu3+. Journal of Rare Earths, 2010, 28, 519-522.	4.8	20
84	A luminescent quadruple stranded dinuclear Eu(III) complex based on 2,8-bis(4â€²,4â€²,4â€²-trifluoro-1â€²,3â€²-dioxobutyl)-dibenzothiophene for light-emitting diodes. Inorganic Chemistry Communication, 2009, 12, 506-508.	3.9	18
85	The UV and VUV luminescence properties of the phosphor Mg2GeO4:Tb3+. Materials Letters, 2010, 64, 1034-1036.	2.6	18
86	Improved thermal stability of luminescence by anion modification in Na2Y(MoO4)(PO4):Tb3+,Eu3+ red-emitting phosphors. Journal of Alloys and Compounds, 2020, 837, 155438.	5.5	18
87	Synthesis and photoluminescence properties of SrLu2O4:Eu3+ superfine phosphor. Materials Research Bulletin, 2005, 40, 1832-1838.	5.2	17
88	Comparative Study on Photoluminescent Properties of CaGdAlO4: Eu3+ Phosphors Synthesized with Three Methods. Journal of Rare Earths, 2006, 24, 138-142.	4.8	17
89	Structural modulation induced intensity enhancement of full color spectra: a case of Ba₃ZnTa_{2â^'x}Nb_xO₉:Eu³⁺ phosphors. Journal of Materials Chemistry C, 2020, 8, 6715-6723.	5.5	15
90	Singleâ€Crystal Red Phosphors and Their Coreâ€“Shell Structure for Improved Waterâ€Resistance for Laser Diodes Applications. Angewandte Chemie, 2021, 133, 3986-3991.	2.0	14

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91	Discovery of a new phosphorviaaliovalent cation substitution: DFT predictions, phase transition and luminescence properties for lighting and anti-counterfeiting applications. Journal of Materials Chemistry C, 2021, 9, 1622-1631.	5.5	14
92	Synthesis and luminescence of a novel conjugated europium complex with 6-paramethylaniline carbonyl 2-pyridine carboxylate. Journal of Alloys and Compounds, 2003, 352, 143-147.	5.5	13
93	A novel green phosphor GdCaAlO4:Tb3+ for PDP application. Journal of Luminescence, 2008, 128, 1262-1266.	3.1	13
94	A highly luminescent dinuclear Eu(III) complex based on 4,4â€²-bis (4â€³,4â€³,4â€³-trifluoro-1â€³,3â€³-dioxobutyl)-o-terphenyl for light-emitting diodes. Materials Chemistry and Physics, 2009, 116, 654-657.	4.3	13
95	A luminescent dinuclear Eu(III) complex based on 2,8-bis(4â€²,4â€²,4â€²,-trifluoro-1â€²,3â€²-dioxobutyl)-dibenzothiophene for light-emitting diodes. Journal of Luminescence, 2010, 130, 855-858.	3.1	13
96	Superfine Sr2CeO4 powder with blue-emission prepared by microemulsion method. Materials Letters, 2005, 59, 948-952.	2.6	12
97	Luminescent Dinuclear Eu(III) Organic Complex as a Red-Emitting Phosphor for Fabrication of LEDs. Electrochemical and Solid-State Letters, 2009, 12, B61.	2.2	12
98	New multinuclear europium(III) complexes as phosphors applied in fabrication of near UV-based light-emitting diodes. Inorganic Chemistry Communication, 2010, 13, 145-148.	3.9	12
99	Na2Tb0.5(MoO4)(PO4):0.5Eu3+: A red-emitting phosphor with both high thermal stability and high colour purity. Optical Materials, 2019, 97, 109376.	3.6	12
100	A novel red phosphor Mg2GeO4 doped with Eu3+ for PDP applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 127, 276-279.	3.5	11
101	TAG:Ce3+Phosphors Prepared by a Novel Sol-combustion Method for Application in InGaN-based White LEDs. Chemistry Letters, 2007, 36, 760-761.	1.3	11
102	A novel europium(III)â€“imidazolâ€“diketonateâ€“phenanthroline complex as a red phosphor applied in LED. Inorganic Chemistry Communication, 2011, 14, 1183-1185.	3.9	11
103	Luminescence properties of color-tunable zinc-codoped alikali earth sulfide phosphor for LED application. Materials Letters, 2012, 76, 113-116.	2.6	11
104	Broad-band emission of A₃Bâ€²Bâ€²â€²₂O₉ complex perovskites (A = Ba, Sr;) Tj ETQq0 0 0 rgBT Chemistry C, 2018, 6, 12566-12574.	5.5	11
105	Luminescent properties and energy transfer of orange-emitting phosphor Ca10Na(PO4)7: Eu2+, Mn2+ for NUV LEDs. Materials Research Bulletin, 2014, 57, 1-5.	5.2	10
106	Strong near-infrared photoluminescence in erbium/ytterbium codoped porous silicon. Applied Physics Letters, 2005, 86, 212505.	3.3	8
107	(Ca_{0.8}Mg_{0.2}Cl₂/SiO₂):Eu²⁺: a violet-blue emitting phosphor with a low UV content for UV-LED based phototherapy illuminators. New Journal of Chemistry, 2019, 43, 3921-3926.	2.8	8
108	An efficient 2-linked carbazolyl Î²-diketonate europium(III) complex as red phosphor applied in LED. Applied Physics B: Lasers and Optics, 2010, 99, 757-762.	2.2	7

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109	Au/SiO2 nanoparticles in TiO2:Sm3+ films for improved fluorescence sensing of oxygen. Journal of Materials Chemistry C, 2017, 5, 11958-11964.	5.5	7
110	Structure model and synthesis of NdCl3-FeCl3-graphite intercalation compounds. Science in China Series B: Chemistry, 2000, 43, 547-554.	0.8	5
111	Preparation and characterization of Gd2O3:Eu3+ rods by surfactant assembliesâ€"microwave heating. Optik, 2010, 121, 1516-1519.	2.9	5
112	Hexagonal Î²-Na(Y,Yb)F₄ based core/shell nanorods: epitaxial growth, enhanced and tailored up-conversion emission. RSC Advances, 2017, 7, 19205-19210.	3.6	3
113	Photoluminescent Properties of SrTiO3:Pr, Al Nanophosphors Synthesized by Microemulsion?Microwave Heating. Journal of the American Ceramic Society, 2007, 90, 070926022312004-???.	3.8	1
114	An approach for preparation of porous silicon/rare earth hybrid â€" Immersion method. Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 970-972.	1.0	0