

Shucaï Gan

List of Publications by Year in descending order

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81
papers

2,404
citations

186265

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all docs

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docs citations

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times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscale Hierarchical Three-Dimensional Flowerlike TiO ₂ /PANI Composite: Synthesis, Characterization, and Its Remarkable Photocatalytic Activity on Organic Dyes under UV-Light and Sunlight Irradiation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18343-18355.	3.1	130
2	Hierarchical Hollow Structure ZnO: Synthesis, Characterization, and Highly Efficient Adsorption/Photocatalysis toward Congo Red. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3131-3139.	3.7	111
3	Preparation of porous 3D Ce-doped ZnO microflowers with enhanced photocatalytic performance. <i>RSC Advances</i> , 2015, 5, 59887-59894.	3.6	103
4	Influence of Nd ³⁺ substitution on the microstructure and electromagnetic properties of barium W-type hexaferrite. <i>Journal of Alloys and Compounds</i> , 2010, 490, 552-556.	5.5	100
5	Facile synthesis of Ag/ZnO micro-flowers and their improved ultraviolet and visible light photocatalytic activity. <i>New Journal of Chemistry</i> , 2016, 40, 1587-1594.	2.8	97
6	Phase Diagram of [Amim]Cl + Salt Aqueous Biphasic Systems and Its Application for [Amim]Cl Recovery. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2470-2473.	1.9	88
7	Hydrothermal synthesis and luminescent properties of NaLa(MoO ₄) ₂ :Dy ³⁺ phosphor. <i>Journal of Solid State Chemistry</i> , 2012, 191, 175-180.	2.9	73
8	Synthesis and luminescent properties of high brightness MLa(WO ₄) ₂ :Eu ³⁺ (M=Li, Na, K) and NaRE(WO ₄) ₂ :Eu ³⁺ (RE=Gd, Y, Lu) red phosphors. <i>Journal of Luminescence</i> , 2013, 143, 14-20.	3.1	71
9	Effect of different rare-earth elements substitution on microstructure and microwave absorbing properties of Ba _{0.9} RE _{0.1} Co ₂ Fe ₁₆ O ₂₇ (RE=La, Nd, Sm) particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1209-1213.	2.3	60
10	Synthesis and luminescent properties of high brightness MRE(MoO ₄) ₂ :Eu ³⁺ (M=Li, Na, K; RE=Gd, Y, Lu) red phosphors for white LEDs. <i>Solid State Sciences</i> , 2014, 29, 58-65.	3.2	58
11	Tunable luminescence properties of NaLa(MoO ₄) ₂ :Ce ³⁺ , Tb ³⁺ phosphors for near UV-excited white light-emitting-diodes. <i>Journal of Alloys and Compounds</i> , 2012, 513, 145-149.	5.5	52
12	Structural, dielectric and magnetic properties of Nd-doped Co ₂ Z-type hexaferrites. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4290-4294.	5.5	49
13	Hydrothermal synthesis of hierarchical micron flower-like γ -AlOOH and γ -Al ₂ O ₃ superstructures from oil shale ash. <i>Powder Technology</i> , 2012, 215-216, 54-58.	4.2	47
14	Hydrothermal synthesis and luminescent properties of NaLa(MoO ₄) ₂ :Eu ³⁺ , Tb ³⁺ phosphors. <i>Journal of Alloys and Compounds</i> , 2013, 550, 1-8.	5.5	46
15	Luminescence properties and charge compensation of Sr ₃ Al ₂ O ₆ doped with Ce ³⁺ and alkali metal ions. <i>Materials Chemistry and Physics</i> , 2010, 124, 1094-1099.	4.0	44
16	Microwave synthesis and luminescent properties of YVO ₄ :Ln ³⁺ (Ln=Eu, Dy and Sm) phosphors with different morphologies. <i>Journal of Alloys and Compounds</i> , 2015, 653, 126-134.	5.5	44
17	Facile synthesis and luminescent properties of LaPO ₄ : Eu ³⁺ , Sm ³⁺ nanorods via a designed two-step hydrothermal method. <i>Materials Chemistry and Physics</i> , 2012, 133, 263-268.	4.0	43
18	Tunable luminescence and energy transfer properties of K ₂ Sr ₄ (BO ₃) ₃ :Dy ³⁺ , Eu ³⁺ phosphors for near-UV warm-white LEDs. <i>Journal of Luminescence</i> , 2016, 173, 171-176.	3.1	43

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19	Photoluminescence and energy transfer studies on Eu ²⁺ and Ce ³⁺ co-doped SrCaSiO ₄ for white light-emitting-diodes. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6635-6639.	5.5	41
20	Tunable luminescence properties of the novel Tm ³⁺ - and Dy ³⁺ -codoped LiLa(MoO ₄) _x (WO ₄) _{2-2x} phosphors for white light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 7049-7057.	3.6	40
21	Two-step hydrothermal synthesis of novel hierarchical Co ₃ O ₄ /Bi ₂ O ₂ CO ₃ p-n heterojunction composite photocatalyst with enhanced visible light photocatalytic activity. <i>Applied Surface Science</i> , 2017, 400, 365-374.	6.1	39
22	Preparation of nano-sized γ -Al ₂ O ₃ from oil shale ash. <i>Energy</i> , 2010, 35, 45-49.	8.8	35
23	Self-assembled 3D sphere-like SrMoO ₄ and SrMoO ₄ :Ln ³⁺ (Ln = Eu, Sm, Tb, Dy) microarchitectures: Facile sonochemical synthesis and optical properties. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1736-1744.	8.2	35
24	Preparation and luminescent properties of CaAl ₂ O ₄ :Eu ³⁺ ,R ⁺ (R=Li, Na, K) phosphors. <i>Journal of Rare Earths</i> , 2010, 28, 22-25.	4.8	34
25	Green light emission by Ce ³⁺ and Tb ³⁺ co-doped Sr ₃ MgSi ₂ O ₈ phosphors for potential application in ultraviolet whitelight-emitting diodes. <i>Optics and Laser Technology</i> , 2012, 44, 2306-2311.	4.6	33
26	Hydrothermal synthesis, characterization, and color-tunable luminescence properties of Bi ₂ Mo ₆ :Eu ³⁺ phosphors. <i>RSC Advances</i> , 2015, 5, 29346-29352.	3.6	32
27	Luminescent properties of Sr ₂ Al ₂ Si ₇ :Ce ³⁺ ,Eu ²⁺ phosphors for near UV-excited white light-emitting diodes. <i>Materials Letters</i> , 2011, 65, 3418-3420.	2.6	30
28	Sesbania gum-based magnetic carbonaceous nanocomposites: Facile fabrication and adsorption behavior. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 163-171.	4.7	30
29	Facile hydrothermal synthesis and luminescent properties of Sm ³⁺ /Eu ³⁺ codoped GdPO ₄ phosphors. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 355-363.	4.0	29
30	Shape controllable synthesis and multicolour fluorescence of lanthanide doped Vernier yttrium oxyfluoride. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3928-3934.	5.5	26
31	White light-emitting properties of NaGdF ₄ nanotubes through Tb ³⁺ , Eu ³⁺ doping. <i>CrystEngComm</i> , 2015, 17, 7754-7761.	2.6	26
32	Controlled synthesis of different multilayer architectures of GdBO ₃ :Eu ³⁺ phosphors and shape-dependent luminescence properties. <i>Applied Surface Science</i> , 2015, 330, 270-279.	6.1	25
33	Enhanced of Tb ³⁺ emission in K ₂ Sr ₄ (BO ₃) ₃ :Dy ³⁺ , Tb ³⁺ phosphors via energy transfer from Dy ³⁺ . <i>Journal of Alloys and Compounds</i> , 2015, 651, 679-684.	5.5	24
34	Surface oxygen vacancy induced solar light activity enhancement of a CdWO ₄ /Bi ₂ O ₂ CO ₃ core-shell heterostructure photocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14431-14441.	2.8	24
35	Facile synthesis and luminescence properties of highly uniform YF ₃ :Ln ³⁺ (Ln=Eu, Tb, Ce, Dy) nanocrystals in ionic liquids. <i>Powder Technology</i> , 2011, 214, 211-217.	4.2	23
36	Monodisperse and hollow structured Y ₂ O ₃ :Ln ³⁺ (Ln = Eu, Dy, Er, Tm) nanospheres: A facile synthesis and multicolor-tunable luminescence properties. <i>Journal of Alloys and Compounds</i> , 2014, 617, 498-504.	5.5	23

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37	Photoluminescence properties of Tb ³⁺ and Ce ³⁺ co-doped Sr ₂ MgSi ₂ O ₇ phosphors for solid-state lighting. <i>Journal of Rare Earths</i> , 2015, 33, 366-370.	4.8	22
38	PEG-assisted hydrothermal synthesis and photoluminescence of CdMoO ₄ :Tb ³⁺ green phosphor. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 79, 14-22.	4.0	22
39	Hydrothermal synthesis and luminescent properties of color-tunable Dy ³⁺ doped and Eu ³⁺ /Tb ³⁺ co-doped MMoO ₄ (M=Ca, Sr, Ba) phosphors. <i>Physica B: Condensed Matter</i> , 2015, 458, 8-17.	2.7	22
40	Facile hydrothermal synthesis and multicolor-tunable luminescence of YPO ₄ :Ln ³⁺ (Ln = Eu, Tb). <i>RSC Advances</i> , 2016, 6, 98208-98215.	3.6	22
41	3D Metallic Ti@Ni _{0.85} Se with Triple Hierarchy as High Efficiency Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 2271-2277.	6.8	22
42	Morphology control and multicolor-tunable luminescence of YOF:Ln ³⁺ (Ln = Eu, Tb, Dy). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	2.8	21
43	Surfactant assisted synthesis of the YVO ₄ :Ln ³⁺ (Ln = Eu, Dy, Sm) phosphors and shape-dependent luminescence properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 502, 139-146.	4.7	21
44	Electromagnetic properties and microwave absorption enhancement of Ba _{0.85} RE _{0.15} Co ₂ Fe ₁₆ O ₂₇ -polyaniline composites: RE = Gd, Tb, Ho. <i>Colloid and Polymer Science</i> , 2014, 292, 2173-2183.	2.9	20
45	Ultrasound-assisted precipitation synthesis of PbMoO ₄ and PbMoO ₄ :Eu ³⁺ nanocrystals and photoluminescence properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 314, 35-41.	3.9	19
46	Tunable luminescence and energy transfer properties of GdPO ₄ :Tb ³⁺ , Eu ³⁺ nanocrystals for warm-white LEDs. <i>Optical Materials</i> , 2018, 85, 71-78.	3.6	19
47	Hydrothermal Synthesis of SrMoO ₄ :Eu ³⁺ , Sm ³⁺ Phosphors and Their Enhanced Luminescent Properties Through Energy Transfer. <i>Journal of Electronic Materials</i> , 2014, 43, 2588-2596.	2.2	18
48	Controlled synthesis and luminescent properties of different morphologies GdBO ₃ :Eu ³⁺ phosphors self-assembled of nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 472, 109-116.	4.7	18
49	Rapid, morphology-controllable synthesis of GdOF:Ln ³⁺ (Ln = Eu, Tb) crystals with multicolor-tunable luminescence properties. <i>New Journal of Chemistry</i> , 2016, 40, 1792-1798.	2.8	18
50	Morphology-controllable synthesis of LaOF:Ln ³⁺ (Ln = Eu, Tb) crystals with multicolor luminescence properties. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 273-280.	9.4	17
51	Facile synthesis and color-tunable properties of monodisperse β -NaYF ₄ :Ln ³⁺ (Ln = Eu, Tb, Tm, Sm, Ho) microtubes. <i>Dalton Transactions</i> , 2018, 47, 1294-1302.	3.3	17
52	Extraction of alumina powders from the oil shale ash by hydrometallurgical technology. <i>Powder Technology</i> , 2011, 207, 343-347.	4.2	16
53	Synthesis of hydrophobic alumina aerogel with surface modification from oil shale ash. <i>Powder Technology</i> , 2013, 249, 220-224.	4.2	16
54	Photoluminescence properties and energy transfer in Ce ³⁺ /Dy ³⁺ co-doped Sr ₃ MgSi ₂ O ₈ phosphors for potential application in ultraviolet white light emitting diodes. <i>Luminescence</i> , 2013, 28, 679-684.	2.9	16

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55	Formation mechanism and optical properties of CdMoO ₄ and CdMoO ₄ :Ln ³⁺ (Ln = Pr, Sm, Eu, Dy, Ho and Er) microspheres synthesized via a facile sonochemical route. <i>RSC Advances</i> , 2014, 4, 38455-38465.	3.6	16
56	Controlled formation of a flower-like CdWO ₄ @BiOCl@Bi ₂ WO ₆ ternary hybrid photocatalyst with enhanced photocatalytic activity through one-pot hydrothermal reaction. <i>New Journal of Chemistry</i> , 2018, 42, 9236-9243.	2.8	16
57	Polyaniline containing W-type hexaferrite composites for microwave absorption in high-frequency applications. <i>Journal of Polymer Research</i> , 2015, 22, 1.	2.4	15
58	Synthesis and luminescent properties of ellipsoid-like YBO ₃ :Ln ³⁺ (Ln=Eu, Tb). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 463, 1-7.	4.7	14
59	Facile controlled synthesis different morphologies of LuBO ₃ :Ln ³⁺ (Ln=Eu, Tb) phosphors and tunable luminescent properties. <i>Journal of Alloys and Compounds</i> , 2015, 646, 632-638.	5.5	14
60	A novel synthetic route towards monodisperse LaOF:Ln ³⁺ (Ln = Eu, Tb) hollow spheres with multicolor luminescence properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21485-21491.	2.8	14
61	A novel color-tunable phosphor, Na ₅ Gd ₉ F ₃₂ :Ln ³⁺ (Ln) Tj ETQq1 1 0.784314 rgB / Dalton Transactions, 2018, 47, 9795-9803.	3.3	14
62	Azeotropic distillation-assisted preparation of nanoscale gamma-alumina powder from waste oil shale ash. <i>Chemical Engineering Journal</i> , 2010, 157, 67-72.	12.7	13
63	Highly bright multicolour emission through energy migration in core/shell nanotubes. <i>Dalton Transactions</i> , 2015, 44, 6645-6654.	3.3	13
64	Novel synthesis route to uniform nanosheet Bi ₂ O ₂ CO ₃ :Eu ³⁺ crystals with luminescence properties. <i>Applied Surface Science</i> , 2015, 357, 255-261.	6.1	13
65	Synthesis and Properties Investigation of Non-equivalent Substituted W-Type Hexaferrite. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 411-420.	1.8	11
66	Solvent directed morphologies and enhanced luminescent properties of BaWO ₄ :Tm ³⁺ , Dy ³⁺ for white light emitting diodes. <i>Solid State Sciences</i> , 2018, 79, 85-92.	3.2	10
67	A novel synthesis route to monodisperse Na ₅ Lu ₉ F ₃₂ :Tb ³⁺ phosphors with superior thermal stability. <i>Journal of Luminescence</i> , 2018, 204, 533-538.	3.1	10
68	Solvothermal synthesis and luminescent properties of highly uniform LuF ₃ :Ln ³⁺ (Ln=Eu, Tb, Dy) nanocrystals from ionic liquids. <i>Applied Surface Science</i> , 2014, 307, 393-400.	6.1	9
69	Monodisperse Na _{0.39} Y _{0.61} F _{2.35} :Ln ³⁺ (Ln=Dy, Tb, Eu) and NaYF ₄ nano-/micromaterials: Controllable morphology, porous structure, tunable multicolor and energy transfer. <i>Journal of Luminescence</i> , 2019, 207, 397-407.	3.1	8
70	Application of Oxidized Cornstarch as a Nonphosphoric Detergent Builder. <i>Journal of Surfactants and Detergents</i> , 2012, 15, 393-398.	2.1	7
71	Synthesis and luminescence properties of a novel phosphor Ca _{2-x} Si _{1-x} PxO ₄ :Eu ²⁺ for near UV-excited white-light-emitting diodes. <i>Journal of Rare Earths</i> , 2013, 31, 871-877.	4.8	7
72	Phase transition, morphology transformation and highly enhanced luminescence properties of YOF:Eu ³⁺ crystals by Gd ³⁺ doping. <i>New Journal of Chemistry</i> , 2015, 39, 7019-7025.	2.8	7

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73	Two-step synthetic route towards monodisperse vernier yttrium oxyfluoride with multicolour fluorescence. <i>Journal of Alloys and Compounds</i> , 2018, 739, 972-978.	5.5	7
74	Synthesis and Luminescent Characteristics of Ce ³⁺ -Activated Borosilicate Blue-Emitting Phosphors for LEDs. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-5.	1.3	6
75	Chemical conversion synthesis of mesoporous LuPO ₄ : Ln ³⁺ (Ln = Eu, Tb, Dy, Sm) phosphors and tunable luminescent properties. <i>Journal of Luminescence</i> , 2018, 203, 525-532.	3.1	6
76	A facile route to the controlled synthesis of $\hat{1}^2$ -NaLuF ₄ :Ln ³⁺ (Ln = Eu, Tb, Dy, Sm, Tm, Ho) phosphors and their tunable luminescence properties. <i>CrystEngComm</i> , 2018, 20, 4763-4770.	2.6	5
77	A novel synthetic route towards monodisperse yttrium hydroxide fluoride by anion exchange and luminescence properties. <i>Optics and Laser Technology</i> , 2019, 111, 372-379.	4.6	5
78	Size and morphology-controlled synthesis of vernier yttrium oxyfluoride towards enhanced photoluminescence and white light emission. <i>New Journal of Chemistry</i> , 2018, 42, 11351-11357.	2.8	4
79	Two-step synthesis of hole structure bastnasite (RECO ₃ F RE = Ce, La, Pr, Nd) sub-microcrystals with tunable luminescence properties. <i>Dalton Transactions</i> , 2018, 47, 15061-15070.	3.3	3
80	Two interpenetrating 3D frameworks based on 12-connected pentanuclear Co ₅ clusters. <i>Journal of Molecular Structure</i> , 2015, 1091, 159-162.	3.6	2
81	Low temperature one-step synthesis of poly(barbituric acid) functionalized magnetic nanoparticles for removal of heavy metal ions. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	1