

Yongchao Jia

List of Publications by Year in descending order

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69
papers

3,310
citations

126708

33
h-index

143772

57
g-index

75
all docs

75
docs citations

75
times ranked

2511
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing broadband spectral conversion in novel Ce ³⁺ ,Cr ³⁺ ,Ln ³⁺ (Ln = Yb, Nd, Er) tridoped near-infrared phosphors via multiple energy transfers. <i>Ceramics International</i> , 2021, 47, 3127-3135.	2.3	20
2	Characterization and simulation. , 2021, , 93-125.		1
3	Importance of Long-Range Channel Sr Displacements for the Narrow Emission in Sr ₂ Li ₂ Al ₂ O ₂ N ₂]:Eu ²⁺ Phosphor. <i>Advanced Optical Materials</i> , 2021, 9, 2100649.	3.6	10
4	The Abinitproject: Impact, environment and recent developments. <i>Computer Physics Communications</i> , 2020, 248, 107042.	3.0	369
5	ZnGa ²⁺ Al ³⁺ O ₄ :Mn ²⁺ ,Mn ⁴⁺ Thermochromic Phosphors: Valence State Control and Optical Temperature Sensing. <i>Inorganic Chemistry</i> , 2020, 59, 15969-15976.	1.9	54
6	Luminescence properties and energy transfer of novel Bi ³⁺ and Mn ²⁺ -co-activated Y ₃ Ga ₅ O ₁₂ single-component white light-emitting phosphor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12231-12239.	2.7	43
7	Site Occupation and Luminescence of Novel Orange-Red Ca ₃ M ₂ Ge ₃ O ₁₂ :Mn ²⁺ ,Mn ⁴⁺ (M) Tj 110784314	1.1	7
8	Enhancing Luminescence and Controlling the Mn Valence State of Gd ₃ Ga ₅ Al ³⁺ O ₁₂ :Mn ²⁺ Phosphors by the Design of the Garnet Structure. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7334-7344.	4.0	62
9	Design rule for the emission linewidth of Eu ²⁺ -activated phosphors. <i>Journal of Luminescence</i> , 2020, 224, 117250.	1.5	7
10	Interstitial Site Engineering for Creating Unusual Red Emission in La ₃ Si ₆ N ₁₁ :Ce ³⁺ . <i>Chemistry of Materials</i> , 2020, 32, 3631-3640.	3.2	35
11	Beyond the one-dimensional configuration coordinate model of photoluminescence. <i>Physical Review B</i> , 2019, 100, .	1.1	10
12	Synthesis, luminescence and application of novel europium, cerium and terbium-doped apatite phosphors. <i>CrystEngComm</i> , 2019, 21, 6226-6237.	1.3	24
13	Ab-initio study of oxygen vacancy stability in bulk and Cerium-doped lutetium oxyorthosilicate. <i>Journal of Luminescence</i> , 2018, 204, 499-505.	1.5	13
14	Ab initio study of luminescence in Ce-doped Lu ₂ Mn ₂ O ₇ : The role of oxygen vacancies on emission color and thermal quenching behavior. <i>Physical Review Materials</i> , 2018, 2, .	0.9	16
15	Assessment of First-Principles and Semiempirical Methodologies for Absorption and Emission Energies of Ce ³⁺ -Doped Luminescent Materials. <i>Advanced Optical Materials</i> , 2017, 5, 1600997.	3.6	35
16	First-principles study of the luminescence of Eu ²⁺ -doped phosphors. <i>Physical Review B</i> , 2017, 96, .	1.1	4
17	First-principles study of silicate nitride phosphors: Neutral excitation, Stokes shift, and luminescent center identification. <i>Physical Review B</i> , 2016, 93, .	1.1	49
18	Understanding Thermal Quenching of Photoluminescence in Oxynitride Phosphors from First Principles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4040-4047.	1.5	58

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19	Energy transfer studies of Ce ³⁺ –Mn ²⁺ and Ce ³⁺ –Tb ³⁺ in an emitting tunable Mg ₂ Al ₄ Si ₅ O ₁₈ :Ce ³⁺ /Mn ²⁺ /Tb ³⁺ phosphor. <i>Optical Materials</i> , 2015, 42, 62-66.	1.7	14
20	Sr ₃ GdNa(PO ₄) ₃ F:Eu ²⁺ , Mn ²⁺ : a potential color tunable phosphor for white LEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 90-97.	2.7	130
21	Crystal Structure and Luminescence Properties of Ca ₈ Mg ₃ Al ₂ Si ₇ O ₂₈ :Eu ²⁺ for WLEDs. <i>Advanced Optical Materials</i> , 2014, 2, 183-188.	3.6	120
22	Ce ³⁺ , Tb ³⁺ , Eu ³⁺ , Mn ²⁺ -doped and Codoped NaY ₉ (SiO ₄) ₆ O ₂ Phosphors: Luminescence, Energy Transfer, Tunable Color Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, R9-R13.	0.9	16
23	Novel synthesis and luminescence properties of t-LaVO ₄ :Eu ³⁺ micro cube. <i>CrystEngComm</i> , 2014, 16, 152-158.	1.3	21
24	Synthesis, Structure, and Luminescence Properties of K ₂ Ba ₇ Si ₁₆ O ₄₀ :Eu ²⁺ for White Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4649-4655.	1.5	68
25	Cerium-, terbium- and europium-activated CaScAlSiO ₆ as a full-color emitting phosphor. <i>Journal of Luminescence</i> , 2014, 147, 159-162.	1.5	9
26	Design of a luminescence pattern via altering the crystal structure and doping ions to create warm white LEDs. <i>Chemical Communications</i> , 2014, 50, 2635.	2.2	79
27	Facile large-scale synthesis of monodisperse RE ₃ (RE = Y, Ce, Nd, Sm-Lu) nano/microcrystals and luminescence properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7666.	2.7	12
28	A novel tunable Na ₂ Ba ₆ (Si ₂ O ₇)(SiO ₄) ₂ :Ce ³⁺ , Mn ²⁺ phosphor with excellent thermal stability for white light emitting diodes. <i>RSC Advances</i> , 2014, 4, 14074-14080.	1.7	11
29	Color tuning and energy transfer investigation in Na ₂ Ca ₄ Mg ₂ Si ₄ O ₁₅ :Eu ²⁺ , Mn ²⁺ phosphor and its potential application for UV-excited UV-WLEDs. <i>RSC Advances</i> , 2014, 4, 7588.	1.7	19
30	Structure and photoluminescence properties of novel Ca ₂ NaSiO ₄ F:Re (Re = Eu ²⁺ , Ce ³⁺ , Tb ³⁺) phosphors with energy transfer for white emitting LEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4304-4311.	2.7	37
31	Facile Fabrication of Single-Phase Multifunctional BaGdF ₅ Nanospheres as Drug Carriers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12761-12770.	4.0	25
32	Color tunable emission and energy transfer in Eu ²⁺ , Tb ³⁺ , or Mn ²⁺ -activated cordierite for near-UV white LEDs. <i>New Journal of Chemistry</i> , 2014, 38, 2884.	1.4	15
33	Ba ₂ GdF ₇ Nanocrystals: Solution-Based Synthesis, Growth Mechanism, and Luminescence Properties. <i>Crystal Growth and Design</i> , 2014, 14, 1819-1826.	1.4	22
34	A single-phase white-emitting Ca ₂ SrAl ₂ O ₆ :Ce ³⁺ , Li ⁺ , Mn ²⁺ phosphor with energy transfer for UV-excited WLEDs. <i>Dalton Transactions</i> , 2014, 43, 3202-3209.		55
35	Spectral tuning of the n-UV convertible oxynitride phosphor: orange color emitting realization via an energy transfer mechanism. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13810.	1.3	38
36	YF ₃ :Eu ³⁺ Micro-Single Crystals: Fine Morphological Tuning and Luminescence Properties. <i>Crystal Growth and Design</i> , 2013, 13, 3582-3587.	1.4	34

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37	Synthesis, structure and photoluminescence properties of europium-, terbium-, and thulium-doped $\text{Ca}_3\text{Bi}(\text{PO}_4)_3$ phosphors. <i>Dalton Transactions</i> , 2013, 42, 12395.	1.6	76
38	A novel orange-yellow-emitting $\text{Ba}_3\text{Lu}(\text{PO}_4)_3\text{:Eu}^{2+}, \text{Mn}^{2+}$ phosphor with energy transfer for UV-excited white LEDs. <i>Dalton Transactions</i> , 2013, 42, 941-947.	1.6	78
39	Tunable Blue-Green-Emitting $\text{Ba}_3\text{LaNa}(\text{PO}_4)_3\text{:F:Eu}^{2+}, \text{Tb}^{3+}$ Phosphor with Energy Transfer for Near-UV White LEDs. <i>Inorganic Chemistry</i> , 2013, 52, 10340-10346.	1.9	204
40	An orange-emitting phosphor via the efficient $\text{Ce}^{3+} \rightarrow \text{Mn}^{2+}$ and $\text{Eu}^{2+} \rightarrow \text{Mn}^{2+}$ energy transfers in $\text{La}_9.33(\text{SiO}_4)_6\text{O}_2$ for UV or near-UV LEDs. <i>New Journal of Chemistry</i> , 2013, 37, 3701.	1.4	26
41	Facile surfactant-free synthesis and luminescent properties of hierarchical europium-doped lutetium oxide phosphors. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 216-222.	5.0	19
42	Tysonite type $\text{Gd}_{1-x}\text{Ca}_x\text{F}_3$ solid solution: hydrothermal synthesis and luminescence properties. <i>CrystEngComm</i> , 2013, 15, 9930.	1.3	3
43	Utilizing Tb^{3+} as an energy transfer bridge to connect $\text{Eu}^{2+} \rightarrow \text{Sm}^{3+}$ luminescent centers: realization of efficient Sm^{3+} red emission under near-UV excitation. <i>Chemical Communications</i> , 2013, 49, 2664.	2.2	74
44	A potential single-phased emission-tunable silicate phosphor $\text{Ca}_3\text{Si}_2\text{O}_7\text{:Ce}^{3+}, \text{Eu}^{2+}$ excited by ultraviolet light for white light emitting diodes. <i>Optical Materials</i> , 2013, 35, 1013-1018.	1.7	42
45	Doping alkaline-earth: a strategy of stabilizing hexagonal GdF_3 at room temperature. <i>Dalton Transactions</i> , 2013, 42, 15482.	1.6	20
46	A direct warm-white-emitting $\text{Sr}_3\text{Sc}(\text{PO}_4)_3\text{:Eu}^{2+}, \text{Mn}^{2+}$ phosphor with tunable photoluminescence via efficient energy transfer. <i>Dalton Transactions</i> , 2013, 42, 5649.	1.6	61
47	Efficient sensitization of Mn^{2+} emission by Eu^{2+} in $\text{Ca}_{12}\text{Al}_{14}\text{O}_{33}\text{Cl}_2$ host under UV excitation. <i>RSC Advances</i> , 2013, 3, 16034.	1.7	35
48	Crystal structure and luminescent properties of a novel high efficiency blue-orange emitting $\text{NaCa}_2\text{LuSi}_2\text{O}_7\text{F}_2\text{:Ce}^{3+}, \text{Mn}^{2+}$ phosphor for ultraviolet light-emitting diodes. <i>Dalton Transactions</i> , 2013, 42, 13071.	1.6	33
49	Eu^{2+} & Mn^{2+} -Coactivated $\text{Ba}_3\text{Gd}(\text{PO}_4)_3$ Orange-Yellow-Emitting Phosphor with Tunable Color Tone for UV-Excited White LEDs. <i>ChemPhysChem</i> , 2013, 14, 192-197.	1.0	42
50	Inorganic-salt-induced morphological transformation and luminescent performance of GdF_3 nanostructures. <i>Dalton Transactions</i> , 2013, 42, 6902.	1.6	29
51	Tunable Color of $\text{Ce}^{3+}/\text{Tb}^{3+}/\text{Mn}^{2+}$ -Coactivated CaScAlSiO_6 via Energy Transfer: A Single-Component Red/White-Emitting Phosphor. <i>Inorganic Chemistry</i> , 2013, 52, 3007-3012.	1.9	165
52	Dendritic $\text{Y}_4\text{O}(\text{OH})_9\text{NO}_3\text{:Eu}^{3+}/\text{Y}_2\text{O}_3\text{:Eu}^{3+}$ hierarchical structures: controlled synthesis, growth mechanism, and luminescence properties. <i>CrystEngComm</i> , 2013, 15, 4844.	1.3	17
53	Monodisperse $\text{YVO}_4\text{:Eu}^{3+}$ submicrocrystals: controlled synthesis and luminescence properties. <i>CrystEngComm</i> , 2013, 15, 5776.	1.3	27
54	Realization of color hue tuning via efficient $\text{Tb}^{3+} \rightarrow \text{Mn}^{2+}$ energy transfer in $\text{Sr}_3\text{Tb}(\text{PO}_4)_3\text{:Mn}^{2+}$, a potential near-UV excited phosphor for white LEDs. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6057.	1.3	48

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55	Incorporating Tb ³⁺ and Mn ²⁺ into a high efficiency BaCa ₂ MgSi ₂ O ₈ :Eu ²⁺ phosphor and its luminescent properties. RSC Advances, 2013, 3, 20619.	1.7	7
56	Synthesis and photoluminescence properties of Ce ³⁺ and Eu ²⁺ -activated Ca ₇ Mg(SiO ₄) ₄ phosphors for solid state lighting. Physical Chemistry Chemical Physics, 2012, 14, 3537.	1.3	92
57	Mg _{1.5} Lu _{1.5} Al _{3.5} Si _{1.5} O ₁₂ :Ce ³⁺ ,Mn ²⁺ : A novel garnet phosphor with adjustable emission color for blue light-emitting diodes. RSC Advances, 2012, 2, 2678.	1.7	50
58	Warm-White-Emitting from Eu ²⁺ /Mn ²⁺ -Codoped Sr ₃ Lu(PO ₄) ₃ Phosphor with Tunable Color Tone and Correlated Color Temperature. Journal of Physical Chemistry C, 2012, 116, 1329-1334.	1.5	125
59	Color point tuning of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor via Mn ²⁺ Si ⁴⁺ incorporation for white light generation. Journal of Materials Chemistry, 2012, 22, 15146.	6.7	139
60	An obvious rolling process in the synthesis of Y ₂ O ₃ :Eu ³⁺ micro-urchins built from nanoscrolls. CrystEngComm, 2012, 14, 7195.	1.3	5
61	A tunable warm-white-light Sr ₃ Gd(PO ₄) ₃ :Eu ²⁺ ,Mn ²⁺ phosphor system for LED-based solid-state lighting. New Journal of Chemistry, 2012, 36, 168-172.	1.4	58
62	3D-hierarchical Lu ₂ O ₂ S:Eu ³⁺ micro/nano-structures: controlled synthesis and luminescence properties. CrystEngComm, 2012, 14, 6659.	1.3	44
63	Facile fabrication of Y ₄ (1,2-BDC) ₆ (H ₂ O) ₂ ·5H ₂ O:Eu ³⁺ ,Tb ³⁺ ultralong nanobelts and tunable luminescence properties. CrystEngComm, 2012, 14, 5830.	1.3	14
64	Color Point Tuning in Lu ₃ Mn ₅ Al ₅ Si ₁₂ O ₄₈ :Eu ²⁺ phosphor for White LEDs. ChemPhysChem, 2012, 13, 3383-3387.	1.5	10
65	From big to small: A general strategy of converting lanthanide coordination polymers to oxide and hydroxide nanoparticles. Inorganic Chemistry Communication, 2012, 20, 225-227.	1.8	2
66	Synthesis and tunable luminescence properties of monodispersed sphere-like CaWO ₄ and CaWO ₄ :Mo/Eu, Tb. Journal of Luminescence, 2012, 132, 362-367.	1.5	31
67	Facile synthesis and catalytic properties of CeO ₂ with tunable morphologies from thermal transformation of cerium benzendicarboxylate complexes. CrystEngComm, 2011, 13, 1786.	1.3	31
68	Synthesis and luminescent properties of NaLa(MoO ₄) ₂ :Eu ³⁺ shuttle-like nanorods composed of nanoparticles. CrystEngComm, 2011, 13, 4046.	1.3	33
69	Electronic structure and photoluminescence properties of Eu ²⁺ -activated Ca ₄ Si ₂ O ₇ F ₂ . Optical Materials, 2011, 33, 1803-1807.	1.7	24