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	The Abinitproject: Impact, environment and recent developments. Computer Physics Communications, 2020, 248, 107042.	3.0	369
2	Tunable Blue-Green-Emitting Ba₃LaNa(PO₄)₃F:Eu²⁺,Tb³⁺ Phosphor with Energy Transfer for Near-UV White LEDs. Inorganic Chemistry, 2013, 52, 10340-10346.	1.9	204
3	Tunable Color of Ce³⁺/Tb³⁺/Mn²⁺-Coactivated CaScAlSiO₆ via Energy Transfer: A Single-Component Red/White-Emitting Phosphor. Inorganic Chemistry, 2013, 52, 3007-3012.	1.9	165
4	Color point tuning of Y3Al5O12â€‰:â€‰Ce3+ phosphor via Mn2+â€“Si4+ incorporation for white light generation. Journal of Materials Chemistry, 2012, 22, 15146.	6.7	139
5	Sr₃GdNa(PO₄)₃F:Eu²⁺,Mn²⁺: a potential color tunable phosphor for white LEDs. Journal of Materials Chemistry C, 2014, 2, 90-97.	2.7	130
6	Warm-White-Emitting from Eu²⁺/Mn²⁺-Codoped Sr₃Lu(PO₄)₃ Phosphor with Tunable Color Tone and Correlated Color Temperature. Journal of Physical Chemistry C, 2012, 116, 1329-1334.	1.5	125
7	Crystal Structure and Luminescence Properties of Ca₈Mg₃Al₂Si₇O₂₈:Eu²⁺ for WLEDs. Advanced Optical Materials, 2014, 2, 183-188.	3.6	120
8	Synthesis and photoluminescence properties of Ce3+ and Eu2+-activated Ca7Mg(SiO4)4 phosphors for solid state lighting. Physical Chemistry Chemical Physics, 2012, 14, 3537.	1.3	92
9	Design of a luminescence pattern via altering the crystal structure and doping ions to create warm white LEDs. Chemical Communications, 2014, 50, 2635.	2.2	79
10	A novel orange-yellow-emitting Ba₃Lu(PO₄)₃:Eu²⁺,Mn²⁺phosphor with energy transfer for UV-excited white LEDs. Dalton Transactions, 2013, 42, 941-947.	1.6	78
11	Synthesis, structure and photoluminescence properties of europium-, terbium-, and thulium-doped Ca3Bi(PO4)3 phosphors. Dalton Transactions, 2013, 42, 12395.	1.6	76
12	Utilizing Tb3+ as an energy transfer bridge to connect Eu2+â€“Sm3+ luminescent centers: realization of efficient Sm3+ red emission under near-UV excitation. Chemical Communications, 2013, 49, 2664.	2.2	74
13	Site Occupation and Luminescence of Novel Orange-Red Ca₃M₂Ge₃O₁₂:Mn²⁺,Mn⁴⁺ (M) Tj ET Qq1 1 0.784314 rg	1.2	70
14	Synthesis, Structure, and Luminescence Properties of K₂Ba₇Si₁₆O₄₀:Eu²⁺ for White Light Emitting Diodes. Journal of Physical Chemistry C, 2014, 118, 4649-4655.	1.5	68
15	Enhancing Luminescence and Controlling the Mn Valence State of Gd₃Ga_{5â€“<i>x</i>â€“Î´}Al_{<i>x</i>â€“<i>y</i>+Î´}O₁₂:<i>y</i>Mn Phosphors by the Design of the Garnet Structure. ACS Applied Materials & Interfaces, 2020, 12, 7334-7344.	4.0	62
16	A direct warm-white-emitting Sr3Sc(PO4)3:Eu2+, Mn2+ phosphor with tunable photoluminescence via efficient energy transfer. Dalton Transactions, 2013, 42, 5649.	1.6	61
17	A tunable warm-white-light Sr₃Gd(PO₄)₃:Eu²⁺,Mn²⁺phosphor system for LED-based solid-state lighting. New Journal of Chemistry, 2012, 36, 168-172.	1.4	58
18	Understanding Thermal Quenching of Photoluminescence in Oxynitride Phosphors from First Principles. Journal of Physical Chemistry C, 2016, 120, 4040-4047.	1.5	58

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19	A single-phase white-emitting Ca₂SrAl₂O₆:Ce³⁺,Li⁺,Mn²⁺phosphor with energy transfer for UV-excited WLEDs. Dalton Transactions, 2014, 43, 3202-3209.	1.6	55
20	ZnGa_{2â€“y}Al_yO₄:Mn²⁺,Mn⁴⁺ Thermochromic Phosphors: Valence State Control and Optical Temperature Sensing. Inorganic Chemistry, 2020, 59, 15969-15976.	1.9	54
21	Mg1.5Lu1.5Al3.5Si1.5O12:Ce3+,Mn2+: A novel garnet phosphor with adjustable emission color for blue light-emitting diodes. RSC Advances, 2012, 2, 2678.	1.7	50
22	First-principles study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mi>Ce</mml:mi></mml:mrow><m silicate nitride phosphors: Neutral excitation, Stokes shift, and luminescent center identification. Physical Review B, 2016, 93, .	1.1	49
23	Realization of color hue tuning via efficient Tb3+â€“Mn2+ energy transfer in Sr3Tb(PO4)3:Mn2+, a potential near-UV excited phosphor for white LEDs. Physical Chemistry Chemical Physics, 2013, 15, 6057.	1.3	48
24	3D-hierarchical Lu2O2S:Eu3+ micro/nano-structures: controlled synthesis and luminescence properties. CrystEngComm, 2012, 14, 6659.	1.3	44
25	First-principles study of the luminescence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Eu</mml:mi></mml:mrow><mml:mrow><m -doped phosphors. Physical Review B, 2017, 96, .	1.1	44
26	Luminescence properties and energy transfer of novel Bi³⁺ and Mn²⁺-co-activated Y₃Ga₅O₁₂ single-component white light-emitting phosphor. Journal of Materials Chemistry C, 2020, 8, 12231-12239.	2.7	43
27	A potential single-phased emission-tunable silicate phosphor Ca3Si2O7:Ce3+,Eu2+ excited by ultraviolet light for white light emitting diodes. Optical Materials, 2013, 35, 1013-1018.	1.7	42
28	Eu²⁺ & Mn²⁺â€Coactivated Ba₃Gd(PO₄)₃ Orangeâ€Yellowâ€Emitting Phosphor with Tunable Color Tone for UVâ€Excited White LEDs. ChemPhysChem, 2013, 14, 192-197.	1.0	42
29	Spectral tuning of the n-UV convertible oxynitride phosphor: orange color emitting realization via an energy transfer mechanism. Physical Chemistry Chemical Physics, 2013, 15, 13810.	1.3	38
30	Structure and photoluminescence properties of novel Ca2NaSiO4F:Re (Re = Eu2+, Ce3+, Tb3+) phosphors with energy transfer for white emitting LEDs. Journal of Materials Chemistry C, 2014, 2, 4304-4311.	2.7	37
31	Efficient sensitization of Mn2+ emission by Eu2+ in Ca12Al14O33Cl2 host under UV excitation. RSC Advances, 2013, 3, 16034.	1.7	35
32	Assessment of Firstâ€Principles and Semiempirical Methodologies for Absorption and Emission Energies of Ce³⁺â€Doped Luminescent Materials. Advanced Optical Materials, 2017, 5, 1600997.	3.6	35
33	Interstitial Site Engineering for Creating Unusual Red Emission in La₃Si₆N₁₁:Ce³⁺. Chemistry of Materials, 2020, 32, 3631-3640.	3.2	35
34	YF₃:Eu³⁺ Micro-Single Crystals: Fine Morphological Tuning and Luminescence Properties. Crystal Growth and Design, 2013, 13, 3582-3587.	1.4	34
35	Synthesis and luminescent properties of NaLa(MoO4)2:Eu3+ shuttle-like nanorods composed of nanoparticles. CrystEngComm, 2011, 13, 4046.	1.3	33
36	Crystal structure and luminescent properties of a novel high efficiency blue-orange emitting NaCa2LuSi2O7F2:Ce3+,Mn2+ phosphor for ultraviolet light-emitting diodes. Dalton Transactions, 2013, 42, 13071.	1.6	33

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37	Facile synthesis and catalytic properties of CeO2 with tunable morphologies from thermal transformation of cerium benzendicarboxylate complexes. CrystEngComm, 2011, 13, 1786.	1.3	31
38	Synthesis and tunable luminescence properties of monodispersed sphere-like CaWO4 and CaWO4:Mo/Eu, Tb. Journal of Luminescence, 2012, 132, 362-367.	1.5	31
39	Inorganic-salt-induced morphological transformation and luminescent performance of GdF3 nanostructures. Dalton Transactions, 2013, 42, 6902.	1.6	29
40	Monodisperse YVO4:Eu3+ submicrocrystals: controlled synthesis and luminescence properties. CrystEngComm, 2013, 15, 5776.	1.3	27
41	An orange-emitting phosphor via the efficient Ce3+â€“Mn2+ and Eu2+â€“Mn2+ energy transfers in La9.33(SiO4)6O2 for UV or near-UV LEDs. New Journal of Chemistry, 2013, 37, 3701.	1.4	26
42	Facile Fabrication of Single-Phase Multifunctional BaGdF₅ Nanospheres as Drug Carriers. ACS Applied Materials & Interfaces, 2014, 6, 12761-12770.	4.0	25
43	Electronic structure and photoluminescence properties of Eu2+-activated Ca4Si2O7F2. Optical Materials, 2011, 33, 1803-1807.	1.7	24
44	Synthesis, luminescence and application of novel europium, cerium and terbium-doped apatite phosphors. CrystEngComm, 2019, 21, 6226-6237.	1.3	24
45	Ba₂GdF₇ Nanocrystals: Solution-Based Synthesis, Growth Mechanism, and Luminescence Properties. Crystal Growth and Design, 2014, 14, 1819-1826.	1.4	22
46	Novel synthesis and luminescence properties of t-LaVO₄:Eu³⁺micro cube. CrystEngComm, 2014, 16, 152-158.	1.3	21
47	Doping alkaline-earth: a strategy of stabilizing hexagonal GdF3 at room temperature. Dalton Transactions, 2013, 42, 15482.	1.6	20
48	Realizing broadband spectral conversion in novel Ce3+,Cr3+,Ln3+ (Ln = Yb, Nd, Er) tridoped near-infrared phosphors via multiple energy transfers. Ceramics International, 2021, 47, 3127-3135.	2.3	20
49	Facile surfactant-free synthesis and luminescent properties of hierarchical europium-doped lutetium oxide phosphors. Journal of Colloid and Interface Science, 2013, 394, 216-222.	5.0	19
50	Color tuning and energy transfer investigation in Na2Ca4Mg2Si4O15:Eu2+, Mn2+ phosphor and its potential application for UV-excited UV-WLEDs. RSC Advances, 2014, 4, 7588.	1.7	19
51	Dendritic Y4O(OH)9NO3:Eu3+/Y2O3:Eu3+ hierarchical structures: controlled synthesis, growth mechanism, and luminescence properties. CrystEngComm, 2013, 15, 4844.	1.3	17
52	Ce³⁺,Tb³⁺,Eu³⁺,Mn²⁺-doped and Codoped NaY₉(SiO₄)₆O₂Phosphors: Luminescence, Energy Transfer, Tunable Color Properties. ECS Journal of Solid State Science and Technology, 2014, 3, R9-R13.	0.9	16
53	Ab initio study of luminescence in Ce-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Lu</mml:mi><mml:mn>2</mml:mn></mml:mn></mml: : The role of oxygen vacancies on emission color and thermal quenching behavior. Physical Review Materials, 2018, 2, .	0.9	16
54	Color tunable emission and energy transfer in Eu2+, Tb3+, or Mn2+-activated cordierite for near-UV white LEDs. New Journal of Chemistry, 2014, 38, 2884.	1.4	15

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55	Facile fabrication of Y4(1,2-BDC)6(H2O)2Â·5H2O:Eu3+,Tb3+ ultralong nanobelts and tunable luminescence properties. CrystEngComm, 2012, 14, 5830.	1.3	14
56	Energy transfer studies of Ce3+â€“Mn2+ and Ce3+â€“Tb3+ in an emitting tunable Mg2Al4Si5O18:Ce3+/Mn2+/Tb3+ phosphor. Optical Materials, 2015, 42, 62-66.	1.7	14
57	Ab-initio study of oxygen vacancy stability in bulk and Cerium-doped lutetium oxyorthosilicate. Journal of Luminescence, 2018, 204, 499-505.	1.5	13
58	Facile large-scale synthesis of monodisperse REF₃(RE = Y, Ce, Nd, Sm-Lu) nano/microcrystals and luminescence properties. Journal of Materials Chemistry C, 2014, 2, 7666.	2.7	12
59	A novel tunable Na2Ba6(Si2O7)(SiO4)2:Ce3+,Mn2+ phosphor with excellent thermal stability for white light emitting diodes. RSC Advances, 2014, 4, 14074-14080.	1.7	11
60	Beyond the one-dimensional configuration coordinate model of photoluminescence. Physical Review B, 2019, 100, .	1.1	10
61	Importance of Longâ€Range Channel Sr Displacements for the Narrow Emission in Sr[Li₂Al₂O₂N₂]:Eu²⁺Phosphor. Advanced Optical Materials, 2021, 9, 2100649.	3.6	10
62	Cerium-, terbium- and europium-activated CaScAlSiO6 as a full-color emitting phosphor. Journal of Luminescence, 2014, 147, 159-162.	1.5	9
63	Color Point Tuning in Lu_{3â^'xâ^'y}Mn_xAl_{5â^'x}Si_xO₁₂:y for White LEDs. ChemPhysChem, 2012, 13, 3383-3387.	1.5	8
64	Incorporating Tb3+ and Mn2+ into a high efficiency BaCa2MgSi2O8:Eu2+ phosphor and its luminescent properties. RSC Advances, 2013, 3, 20619.	1.7	7
65	Design rule for the emission linewidth of Eu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1136" altimg="si27.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>-activated phosphors. Journal of Luminescence, 2020, 224, 117258.	1.5	7
66	An obvious rolling process in the synthesis of Y2O3:Eu3+ micro-urchins built from nanoscrolls. CrystEngComm, 2012, 14, 7195.	1.3	5
67	Tysonite type Gd1â^'yCayF3â^'y solid solution: hydrothermal synthesis and luminescence properties. CrystEngComm, 2013, 15, 9930.	1.3	3
68	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
69	Characterization and simulation. , 2021, , 93-125.		1