

Mengmeng Jiao

List of Publications by Year in descending order

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40
papers

1,416
citations

331670

21
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

1240
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Blue-Green-Emitting Ba ₃ LaNa(PO ₄) ₃ F:Eu ²⁺ ,Tb ³⁺ Phosphor with Energy Transfer for Near-UV White LEDs. <i>Inorganic Chemistry</i> , 2013, 52, 10340-10346.	4.0	204
2	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.	5.5	130
3	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.	7.3	120
4	Synthesis, structure and photoluminescence properties of europium-, terbium-, and thulium-doped Ca ₃ Bi(PO ₄) ₃ phosphors. <i>Dalton Transactions</i> , 2013, 42, 12395.	3.3	76
5	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.	3.1	68
6	Broadband Yellowish-Green Emitting Ba ₄ Gd ₃ Na ₃ (PO ₄) ₆ F ₂ :Eu ²⁺ Phosphor: Structure Refinement, Energy Transfer, and Thermal Stability. <i>Inorganic Chemistry</i> , 2016, 55, 6107-6113.	4.0	59
7	Generation of orange and green emissions in Ca ₂ GdZr ₂ (AlO ₄) ₃ :Ce ³⁺ , Mn ²⁺ , Tb ³⁺ garnets via energy transfer with Mn ²⁺ and Tb ³⁺ as acceptors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2334-2340.	5.5	58
8	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.	3.3	55
9	Optical properties and energy transfer of a novel KSc ₂ (PO ₄) ₃ :Ce ³⁺ /Eu ²⁺ /Tb ³⁺ phosphor for white light emitting diodes. <i>Dalton Transactions</i> , 2015, 44, 4080-4087.	3.3	45
10	Electronic structure and photoluminescence properties of single component white emitting Sr ₃ LuNa(PO ₄) ₃ F:Eu ²⁺ ,Mn ²⁺ phosphor for WLEDs. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4435-4443.	5.5	39
11	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.	5.5	37
12	Efficient green phosphor realized by Ce ³⁺ →Tb ³⁺ energy transfer in Li ₃ Sc ₂ (PO ₄) ₃ for ultraviolet white light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26995-27002.	2.8	36
13	Efficient sensitization of Mn ²⁺ emission by Eu ²⁺ in Ca ₁₂ Al ₁₄ O ₃₃ Cl ₂ host under UV excitation. <i>RSC Advances</i> , 2013, 3, 16034.	3.6	35
14	Enhancing Photoluminescence Performance of SrSi ₂ O ₂ N ₂ :Eu ²⁺ Phosphors by Re (Re = La, Gd, Y, Dy,) Tj ETQq0.0 0 rgBT /Overlock 9060-9065.	4.0	35
15	YF ₃ :Eu ³⁺ Micro-Single Crystals: Fine Morphological Tuning and Luminescence Properties. <i>Crystal Growth and Design</i> , 2013, 13, 3582-3587.	3.0	34
16	The structures and luminescence properties of Sr ₄ Gd ₃ Na ₃ (PO ₄) ₆ F ₂ :Ce ³⁺ ,Tb ³⁺ green phosphors with zero-thermal quenching of Tb ³⁺ for WLEDs. <i>Dalton Transactions</i> , 2020, 49, 667-674.	3.3	34
17	Novel Two-Step Topotactic Transformation Synthetic Route Towards Monodisperse LnOF:Re, ³⁺ (Ln = Y, Pr“Lu) Nanocrystals with Down/Upconversion Luminescence Properties. <i>Advanced Optical Materials</i> , 2015, 3, 583-592.	7.3	32
18	An intense NIR emission from Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ :Mn ⁴⁺ ,Yb ³⁺ via energy transfer for solar spectral converters. <i>Dalton Transactions</i> , 2016, 45, 466-468.	3.3	32

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19	Topotactic Transformation Route to Monodisperse $\text{NaYF}_4:\text{Ln}^{3+}$ Microcrystals with Luminescence Properties. <i>Inorganic Chemistry</i> , 2016, 55, 1912-1919.	4.0	28
20	Monodisperse $\text{YVO}_4:\text{Eu}^{3+}$ submicrocrystals: controlled synthesis and luminescence properties. <i>CrystEngComm</i> , 2013, 15, 5776.	2.6	27
21	Novel synthesis and luminescence properties of $\text{t-LaVO}_4:\text{Eu}^{3+}$ micro cube. <i>CrystEngComm</i> , 2014, 16, 152-158.	2.6	21
22	Color tuning and energy transfer investigation in $\text{Na}_2\text{Ca}_4\text{Mg}_2\text{Si}_4\text{O}_{15}:\text{Eu}^{2+}, \text{Mn}^{2+}$ phosphor and its potential application for UV-excited UV-WLEDs. <i>RSC Advances</i> , 2014, 4, 7588.	3.6	19
23	Modification of SnO_2 with Phosphorus-Containing Lewis Acid for High-Performance Planar Perovskite Solar Cells with Negligible Hysteresis. <i>Solar Rrl</i> , 2022, 6, .	5.8	17
24	Cation substitution induced novel gehlenite $\text{Ca}_2\text{GaAlSiO}_7:\text{Eu}^{2+}/\text{Ce}^{3+}$ phosphor with green/blue emission for UV-WLEDs. <i>RSC Advances</i> , 2017, 7, 28647-28654.	3.6	16
25	Temperature and Wavelength Dependence of Energy Transfer Process Between Quantized States and Surface States in CdSe Quantum Dots. <i>Nanoscale Research Letters</i> , 2017, 12, 222.	5.7	15
26	Potential color tunable $\text{Sr}_3\text{LaNa}(\text{PO}_4)_3\text{F}:\text{Eu}^{2+}/\text{Tb}^{3+}/\text{Mn}^{2+}$ phosphor induced by $\text{Eu}^{2+} \rightarrow \text{Tb}^{3+}$ and $\text{Tb}^{3+} \rightarrow \text{Mn}^{2+}$ energy transfer for WLEDs. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24566-24573.	2.8	15
27	Photoluminescence properties and energy transfer of high thermal stable $\text{Na}_2\text{GdPO}_4\text{F}_2:\text{RE}$ (RE = Sm^{3+}), <i>Tj ETQq1</i> 1.0.784314.rgBT /O	3.1	15
28	Tunable electroluminescence from an n-ZnO/p-GaN heterojunction with a CsPbBr_3 interlayer grown by pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12240-12246.	5.5	14
29	Two-step ion-exchange synthetic strategy for obtaining monodisperse $\text{NaYF}_4:\text{Ln}^{3+}$ nanostructures with multicolor luminescence properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1091-1098.	5.5	13
30	Facile large-scale synthesis of monodisperse REF_3 (RE = Y, Ce, Nd, Sm-Lu) nano/microcrystals and luminescence properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7666.	5.5	12
31	Color tunable $\text{Ba}_3\text{Lu}(\text{PO}_4)_3:\text{Tb}^{3+}, \text{Mn}^{2+}$ phosphor via $\text{Tb}^{3+} \rightarrow \text{Mn}^{2+}$ energy transfer for white LEDs. <i>Ceramics International</i> , 2018, 44, 15243-15248.	4.8	12
32	Luminescence property improvement and controllable color regulation of a novel Bi^{3+} doped $\text{Ca}_2\text{Ta}_2\text{O}_7$ green phosphor through charge compensation engineering and energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 25886-25895.	2.8	12
33	A novel tunable $\text{Na}_2\text{Ba}_6(\text{Si}_2\text{O}_7)(\text{SiO}_4)_2:\text{Ce}^{3+}, \text{Mn}^{2+}$ phosphor with excellent thermal stability for white light emitting diodes. <i>RSC Advances</i> , 2014, 4, 14074-14080.	3.6	11
34	Synthesis, Structure, and Photoluminescence Properties of Novel $\text{KBaSc}_2(\text{PO}_4)_3:\text{Ce}^{3+}/\text{Eu}^{2+}/\text{Tb}^{3+}$ Phosphors for White-Light-Emitting Diodes. <i>ChemPhysChem</i> , 2015, 16, 2663-2669.	2.1	10
35	Luminescence Properties of $\text{Ca}_2\text{Ga}_2\text{SiO}_7:\text{RE}$ Phosphors for UV White-Light-Emitting Diodes. <i>ChemPhysChem</i> , 2015, 16, 817-824.	2.1	10
36	Design of a defect-induced orange persistent luminescence phosphor $\text{BaZnGeO}_4:\text{Bi}^{3+}$. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2128-2139.	3.8	7

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37	Crystal structures, tunable emission and energy transfer of a novel GdAl ₁₂ O ₁₈ N:Eu ²⁺ , Tb ³⁺ oxynitride phosphor. <i>New Journal of Chemistry</i> , 2016, 40, 2637-2643.	2.8	4
38	Revealing photoluminescence mechanisms of single CsPbBr ₃ /Cs ₄ PbBr ₆ core/shell perovskite nanocrystals. <i>RSC Advances</i> , 2021, 11, 30465-30471.	3.6	4
39	Tysonite type Gd _{1-x} Ca _y F _{3-y} solid solution: hydrothermal synthesis and luminescence properties. <i>CrystEngComm</i> , 2013, 15, 9930.	2.6	3
40	Synthesis and Study of Optical Characteristics of TiO ₂ /CdS Hybrid Sphere Structures. <i>Nanoscale Research Letters</i> , 2018, 13, 80.	5.7	2