

# Mengmeng Jiao

## List of Publications by Year in descending order

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40  
papers

1,416  
citations

331670

21  
h-index

315739

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g-index

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all docs

40  
docs citations

40  
times ranked

1240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a defect-induced orange persistent luminescence phosphor BaZnGeO <sub>4</sub> :Bi <sup>3+</sup> . Journal of the American Ceramic Society, 2022, 105, 2128-2139.	3.8	7
2	Modification of SnO <sub>2</sub> with Phosphorus-containing Lewis Acid for High-performance Planar Perovskite Solar Cells with Negligible Hysteresis. Solar Rrl, 2022, 6, .	5.8	17
3	Revealing photoluminescence mechanisms of single CsPbBr <sub>3</sub> /Cs <sub>4</sub> PbBr <sub>6</sub> core/shell perovskite nanocrystals. RSC Advances, 2021, 11, 30465-30471.	3.6	4
4	Luminescence property improvement and controllable color regulation of a novel Bi <sup>3+</sup> doped Ca <sub>2</sub> Ta <sub>2</sub> O <sub>7</sub> green phosphor through charge compensation engineering and energy transfer. Physical Chemistry Chemical Physics, 2021, 23, 25886-25895.	2.8	12
5	The structures and luminescence properties of Sr <sub>4</sub> Gd <sub>3</sub> Na <sub>3</sub> (PO <sub>4</sub> ) <sub>6</sub> F <sub>2</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> green phosphors with zero-thermal quenching of Tb <sup>3+</sup> for WLEDs. Dalton Transactions, 2020, 49, 667-674.	3.3	34
6	Tunable electroluminescence from an n-ZnO/p-GaN heterojunction with a CsPbBr <sub>3</sub> interlayer grown by pulsed laser deposition. Journal of Materials Chemistry C, 2020, 8, 12240-12246.	5.5	14
7	Photoluminescence properties and energy transfer of high thermal stable Na <sub>2</sub> GdPO <sub>4</sub> F <sub>2</sub> :RE (RE = Sm <sup>3+</sup> ), Tj ETQq1 1 0.784314 rgBT /Qv	3.1	15
8	Synthesis and Study of Optical Characteristics of TiO <sub>2</sub> /CdS Hybrid Sphere Structures. Nanoscale Research Letters, 2018, 13, 80.	5.7	2
9	Electronic structure and photoluminescence properties of single component white emitting Sr <sub>3</sub> LuNa(PO <sub>4</sub> ) <sub>3</sub> F:Eu <sup>2+</sup> ,Mn <sup>2+</sup> phosphor for WLEDs. Journal of Materials Chemistry C, 2018, 6, 4435-4443.	5.5	39
10	Efficient green phosphor realized by Ce <sup>3+</sup> →Tb <sup>3+</sup> energy transfer in Li <sub>3</sub> Sc <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> for ultraviolet white light-emitting diodes. Physical Chemistry Chemical Physics, 2018, 20, 26995-27002.	2.8	36
11	Color tunable Ba <sub>3</sub> Lu(PO <sub>4</sub> ) <sub>3</sub> :Tb <sup>3+</sup> ,Mn <sup>2+</sup> phosphor via Tb <sup>3+</sup> →Mn <sup>2+</sup> energy transfer for white LEDs. Ceramics International, 2018, 44, 15243-15248.	4.8	12
12	Cation substitution induced novel gehlenite Ca <sub>2</sub> GaAlSiO <sub>7</sub> :Eu <sup>2+</sup> /Ce <sup>3+</sup> phosphor with green/blue emission for UV-WLEDs. RSC Advances, 2017, 7, 28647-28654.	3.6	16
13	Temperature and Wavelength Dependence of Energy Transfer Process Between Quantized States and Surface States in CdSe Quantum Dots. Nanoscale Research Letters, 2017, 12, 222.	5.7	15
14	Potential color tunable Sr <sub>3</sub> LaNa(PO <sub>4</sub> ) <sub>3</sub> F:Eu <sup>2+</sup> /Tb <sup>3+</sup> /Mn <sup>2+</sup> phosphor induced by Eu <sup>2+</sup> →Tb <sup>3+</sup> and Tb <sup>3+</sup> →Mn <sup>2+</sup> energy transfer for WLEDs. Physical Chemistry Chemical Physics, 2017, 19, 24566-24573.	2.8	15
15	Broadband Yellowish-Green Emitting Ba <sub>4</sub> Gd <sub>3</sub> Na <sub>3</sub> (PO <sub>4</sub> ) <sub>6</sub> F <sub>2</sub> :Eu <sup>2+</sup> Phosphor: Structure Refinement, Energy Transfer, and Thermal Stability. Inorganic Chemistry, 2016, 55, 6107-6113.	4.0	59
16	Topotactic Transformation Route to Monodisperse $\beta$ -NaYF <sub>4</sub> :Ln <sup>3+</sup> Microcrystals with Luminescence Properties. Inorganic Chemistry, 2016, 55, 1912-1919.	4.0	28
17	Crystal structures, tunable emission and energy transfer of a novel GdAl <sub>12</sub> O <sub>18</sub> N:Eu <sup>2+</sup> ,Tb <sup>3+</sup> oxynitride phosphor. New Journal of Chemistry, 2016, 40, 2637-2643.	2.8	4
18	An intense NIR emission from Ca <sub>14</sub> Al <sub>10</sub> Zn <sub>6</sub> O <sub>35</sub> :Mn <sup>4+</sup> ,Yb <sup>3+</sup> via energy transfer for solar spectral converters. Dalton Transactions, 2016, 45, 466-468.	3.3	32

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19	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
20	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
21	Novel Two-Step Topotactic Transformation Synthetic Route Towards Monodisperse $\text{LnOF:Re}^{3+}$ ( $\text{Ln} = \text{Y, Pr}^{\text{III}}, \text{Lu}$ ) Nanocrystals with Down/Upconversion Luminescence Properties. <i>Advanced Optical Materials</i> , 2015, 3, 583-592.	7.3	32
22	Optical properties and energy transfer of a novel $\text{KSrSc}_2(\text{PO}_4)_3:\text{Ce}^{3+}/\text{Eu}^{2+}/\text{Tb}^{3+}$ phosphor for white light emitting diodes. <i>Dalton Transactions</i> , 2015, 44, 4080-4087.	3.3	45
23	Generation of orange and green emissions in $\text{Ca}_2\text{GdZr}_2(\text{AlO}_4)_3:\text{Ce}^{3+}$ , $\text{Mn}^{2+}$ , $\text{Tb}^{3+}$ garnets via energy transfer with $\text{Mn}^{2+}$ and $\text{Tb}^{3+}$ as acceptors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2334-2340.	5.5	58
24	Enhancing Photoluminescence Performance of $\text{SrSi}_2\text{O}_2\text{N}_2:\text{Eu}^{2+}$ Phosphors by Re ( $\text{Re} = \text{La, Gd, Y, Dy}$ ). <i>TJ ETQq</i> 0.0 0 rgBT/Overlock 9060-9065.	4.0	35
25	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
26	$\text{Sr}_3\text{GdNa}(\text{PO}_4)_3:\text{F:Eu}^{2+}, \text{Mn}^{2+}$ : a potential color tunable phosphor for white LEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 90-97.	5.5	130
27	Crystal Structure and Luminescence Properties of $\text{Ca}_8\text{Mg}_3\text{Al}_2\text{Si}_7\text{O}_{28}:\text{Eu}^{2+}$ for WLEDs. <i>Advanced Optical Materials</i> , 2014, 2, 183-188.	7.3	120
28	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
29	Synthesis, Structure, and Luminescence Properties of $\text{K}_2\text{Ba}_7\text{Si}_{16}\text{O}_{40}:\text{Eu}^{2+}$ for White Light Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4649-4655.	3.1	68
30	Facile large-scale synthesis of monodisperse $\text{REF}_3$ ( $\text{RE} = \text{Y, Ce, Nd, Sm-Lu}$ ) nano/microcrystals and luminescence properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7666.	5.5	12
31	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
32	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
33	Structure and photoluminescence properties of novel $\text{Ca}_2\text{NaSiO}_4\text{F:Re}$ ( $\text{Re} = \text{Eu}^{2+}, \text{Ce}^{3+}, \text{Tb}^{3+}$ ) phosphors with energy transfer for white emitting LEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4304-4311.	5.5	37
34	A single-phase white-emitting $\text{Ca}_2\text{SrAl}_2\text{O}_6:\text{Ce}^{3+}, \text{Li}^{+}, \text{Mn}^{2+}$ phosphor with energy transfer for UV-excited WLEDs. <i>Dalton Transactions</i> , 2014, 43, 3202-3209.	3.3	55
35	$\text{YF}_3:\text{Eu}^{3+}$ Micro-Single Crystals: Fine Morphological Tuning and Luminescence Properties. <i>Crystal Growth and Design</i> , 2013, 13, 3582-3587.	3.0	34
36	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.	3.3	76

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37	Tunable Blue-Green-Emitting Ba <sub>3</sub> LaNa(PO <sub>4</sub> ) <sub>3</sub> F:Eu <sup>2+</sup> ,Tb <sup>3+</sup> Phosphor with Energy Transfer for Near-UV White LEDs. <i>Inorganic Chemistry</i> , 2013, 52, 10340-10346.	4.0	204
38	Tysonite type Gd <sub>1-x</sub> Ca <sub>y</sub> F <sub>3-x</sub> solid solution: hydrothermal synthesis and luminescence properties. <i>CrystEngComm</i> , 2013, 15, 9930.	2.6	3
39	Efficient sensitization of Mn <sup>2+</sup> emission by Eu <sup>2+</sup> in Ca <sub>12</sub> Al <sub>14</sub> O <sub>33</sub> Cl <sub>2</sub> host under UV excitation. <i>RSC Advances</i> , 2013, 3, 16034.	3.6	35
40	Monodisperse YVO <sub>4</sub> :Eu <sup>3+</sup> submicrocrystals: controlled synthesis and luminescence properties. <i>CrystEngComm</i> , 2013, 15, 5776.	2.6	27