

Jiasong Zhong

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Efficient luminescence lifetime thermometry with enhanced Mn ⁴⁺ -activated BaLaCa _{1-x} Mg _x SbO ₆ red phosphors. <i>Chemical Engineering Journal</i> , 2022, 430, 132923.	12.7	35
2	Suppression of charge imbalance via Li ⁺ -Mn ⁴⁺ co-incorporated Sr ₂ YSbO ₆ red phosphors for warm w-LEDs. <i>Materials Today Chemistry</i> , 2022, 23, 100744.	3.5	15
3	Rapid Hydroxyl Radical Generation on (001)-Facet-Exposed Ultrathin Anatase TiO ₂ Nanosheets for Enhanced Photocatalytic Lignocellulose-to-H ₂ Conversion. <i>ACS Catalysis</i> , 2022, 12, 2118-2125.	11.2	60
4	Synergistic luminescent thermometer using co-doped Ca ₂ GdSbO ₆ :Mn ⁴⁺ /(Eu ³⁺ or Sm ³⁺) phosphors. <i>Dalton Transactions</i> , 2022, 51, 4685-4694.	3.3	34
5	In Situ Transformation of Metal-Organic Frameworks into Hollow Nickel-Cobalt Double Hydroxide Arrays for Efficient Water Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 738-745.	4.0	5
6	A Novel Visible-Light-Responsive Semiconductor ScTaO _{4-x} N _x for Photocatalytic Oxygen and Hydrogen Evolution Reactions. <i>ChemCatChem</i> , 2021, 13, 180-184.	3.7	8
7	A General Strategy for Antimony-Based Alloy Nanocomposite Embedded in Swiss-Cheese-Like Nitrogen-Doped Porous Carbon for Energy Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2009433.	14.9	62
8	Visible-light-responsive Z-scheme system for photocatalytic lignocellulose-to-H ₂ conversion. <i>Chemical Communications</i> , 2021, 57, 9898-9901.	4.1	12
9	Construction of hierarchical CoP@Ni ₂ P core-shell nanoarrays for efficient electrocatalytic hydrogen evolution in alkaline solution. <i>RSC Advances</i> , 2021, 11, 22467-22472.	3.6	10
10	Advances in Halide Perovskite Memristor from Lead-Based to Lead-Free Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17141-17157.	8.0	64
11	The excellent luminous efficiency and high thermal stability of phosphor-in-glass for high-power laser. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	6
12	Identifying the role of interface chemical bonds in activating charge transfer for enhanced photocatalytic nitrogen fixation of Ni ₂ P-black phosphorus photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120274.	20.2	62
13	Enhanced luminescence properties of Ca _{1+x} Sr _{2-x} Al ₂ O ₆ :Eu ³⁺ (0 ≤ x ≤ 1) red phosphors based on composition modulation. <i>RSC Advances</i> , 2021, 11, 12981-12989.	3.6	4
14	LiYF ₄ -nanocrystal-embedded glass ceramics for upconversion: glass crystallization, optical thermometry and spectral conversion. <i>RSC Advances</i> , 2021, 11, 2066-2073.	3.6	9
15	Dual-phase glass ceramics for dual-modal optical thermometry through a spatial isolation strategy. <i>Dalton Transactions</i> , 2021, 50, 16223-16232.	3.3	8
16	Local Structure Modulation-Induced Highly Efficient Red-Emitting Ba ₂ Gd _{1-x} Y _x NbO ₆ :Mn ⁴⁺ Phosphors for Warm WLEDs. <i>Inorganic Chemistry</i> , 2021, 60, 17398-17406.	4.0	28
17	Metal-free broad-spectrum PTCDA/g-C ₃ N ₄ Z-scheme photocatalysts for enhanced photocatalytic water oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118179.	20.2	89
18	Single band of red upconversion emission in Ce-based glass ceramics for light manipulation. <i>Journal of Luminescence</i> , 2020, 227, 117527.	3.1	4

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19	In Situ-Grown Island-Shaped Hollow Graphene on TaON with Spatially Separated Active Sites Achieving Enhanced Visible-Light CO ₂ Reduction. ACS Catalysis, 2020, 10, 15083-15091.	11.2	51
20	Bi ₂ Se ₃ @C Rod-like Architecture with Outstanding Electrochemical Properties in Lithium/Potassium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11073-11081.	5.1	61
21	Anomalous photoluminescence from a K ₂ LilnF ₆ :Mn ⁴⁺ phosphor. Journal of Materials Chemistry C, 2020, 8, 8085-8090.	5.5	20
22	A double perovskite-based red-emitting phosphor with robust thermal stability for warm WLEDs. Ceramics International, 2020, 46, 19328-19334.	4.8	17
23	CoS ₂ @N-doped carbon core-shell nanorod array grown on Ni foam for enhanced electrocatalytic water oxidation. Journal of Materials Chemistry A, 2020, 8, 6795-6803.	10.3	75
24	Graphene-Like Matrix Composites with Fe ₂ O ₃ and Co ₃ O ₄ as Cathode Materials for Lithium-Sulfur Batteries. ACS Applied Nano Materials, 2020, 3, 1382-1390.	5.0	21
25	Encapsulating MnSe Nanoparticles Inside 3D Hierarchical Carbon Frameworks with Lithium Storage Boosted by in Situ Electrochemical Phase Transformation. ACS Applied Materials & Interfaces, 2019, 11, 33022-33032.	8.0	40
26	Highly efficient red-emitting Ca ₂ YSbO ₆ :Eu ³⁺ double perovskite phosphors for warm WLEDs. RSC Advances, 2019, 9, 20742-20748.	3.6	30
27	Ta ₃ N ₅ nanorods encapsulated into 3D hydrangea-like MoS ₂ for enhanced photocatalytic hydrogen evolution under visible light irradiation. Dalton Transactions, 2019, 48, 13176-13183.	3.3	27
28	Simultaneous Tailoring of Dual-Phase Fluoride Precipitation and Dopant Distribution in Glass to Control Upconverting Luminescence. ACS Applied Materials & Interfaces, 2019, 11, 30053-30064.	8.0	21
29	Promoting photoluminescence quantum yields of glass-stabilized CsPbX ₃ (X = Cl, Br, I) perovskite quantum dots through fluorine doping. Nanoscale, 2019, 11, 17216-17221.	5.6	127
30	Schottky junction effect enhanced plasmonic photocatalysis by TaON@Ni NP heterostructures. Chemical Communications, 2019, 55, 11754-11757.	4.1	52
31	Yb ³⁺ /Ln ³⁺ /Mn ⁴⁺ (Ln = Er, Ho, and Tm) doped Na ₃ ZrF ₇ phosphors: oil-water interface cation exchange synthesis, dual-modal luminescence and anti-counterfeiting. Journal of Materials Chemistry C, 2019, 7, 1321-1329.	5.5	50
32	Optimizing and adjusting the photoluminescence of Mn ⁴⁺ -doped fluoride phosphors via forming composite particles. Dalton Transactions, 2019, 48, 711-717.	3.3	20
33	Chlorine-additive-promoted incorporation of Mn ²⁺ dopants into CsPbCl ₃ perovskite nanocrystals. Nanoscale, 2019, 11, 12465-12470.	5.6	36
34	Novel cyan-emitting KBaScSi ₂ O ₇ :Eu ²⁺ phosphors with ultrahigh quantum efficiency and excellent thermal stability for WLEDs. Journal of the American Ceramic Society, 2019, 102, 7376-7385.	3.8	37
35	Upconversion Luminescence in Yb/Ln (Ln = Er, Tm) Doped Oxyhalide Glasses Containing CsPbBr ₃ Perovskite Nanocrystals. Journal of the European Ceramic Society, 2019, 39, 4275-4282.	5.7	41
36	Upconversion of transparent glass ceramics containing ¹² -NaYF ₄ :Yb ³⁺ , Er ³⁺ nanocrystals for optical thermometry. RSC Advances, 2019, 9, 7948-7954.	3.6	32

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37	Grinding Synthesis of APbX ₃ (A = MA, FA, Cs; X = Cl, Br, I) Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2019, 11, 10059-10067.	8.0	67
38	A novel rare-earth free red-emitting Li ₃ Mg ₂ SbO ₆ :Mn ⁴⁺ phosphor-in-glass for warm w-LEDs: Synthesis, structure, and luminescence properties. Journal of Alloys and Compounds, 2019, 773, 413-422.	5.5	75
39	Phase-transition-induced giant enhancement of red emission in Mn ⁴⁺ -doped fluoride elpasolite phosphors. Journal of Materials Chemistry C, 2018, 6, 3951-3960.	5.5	56
40	Efficient rare-earth free red-emitting Ca ₂ YSbO ₆ :Mn ⁴⁺ ,M(M = Tj ETQq0 0 0 rgBT /Overlock 10 Tf light-emitting diodes. Dalton Transactions, 2018, 47, 6528-6537.	3.3	100
41	Highly efficient rare-earth-free deep red emitting phosphor La ₂ Li _{1-x} Sb _{1-x} O ₆ :Mn ⁴⁺ ,Mg ²⁺ : application in high-power warm w-LEDs. Journal of Materials Chemistry C, 2018, 6, 13305-13315.	5.5	56
42	Robust CsPbX ₃ (X = Cl, Br, and I) perovskite quantum dot embedded glasses: nanocrystallization, improved stability and visible full-spectral tunable emissions. Journal of Materials Chemistry C, 2018, 6, 12864-12870.	5.5	148
43	Fast Room-Temperature Cation Exchange Synthesis of Mn-Doped CsPbCl ₃ Nanocrystals Driven by Dynamic Halogen Exchange. ACS Applied Materials & Interfaces, 2018, 10, 39872-39878.	8.0	57
44	Enhanced luminescence of a Ba ₂ GdSbO ₆ :Mn ⁴⁺ red phosphor via cation doping for warm white light-emitting diodes. Dalton Transactions, 2018, 47, 8248-8256.	3.3	118
45	A review on nanostructured glass ceramics for promising application in optical thermometry. Journal of Alloys and Compounds, 2018, 763, 34-48.	5.5	250
46	Tunable Optical Properties and Enhanced Thermal Quenching of Non-Rare-Earth Double-Perovskite (Ba _{1-x} Sr _x) ₂ YSbO ₆ :Mn ⁴⁺ Red Phosphors Based on Composition Modulation. Inorganic Chemistry, 2018, 57, 8978-8987.	4.0	124
47	In Situ Crystallization Synthesis of CsPbBr ₃ Perovskite Quantum Dot-Embedded Glasses with Improved Stability for Solid-State Lighting and Random Upconverted Lasing. ACS Applied Materials & Interfaces, 2018, 10, 18918-18926.	8.0	307
48	Reverse synthesis of CsPb _x Mn _{1-x} (Cl/Br) ₃ perovskite quantum dots from CsMnCl ₃ precursors through cation exchange. Journal of Materials Chemistry C, 2018, 6, 5908-5915.	5.5	20
49	Mn-Doped CsPbCl ₃ perovskite nanocrystals: solvothermal synthesis, dual-color luminescence and improved stability. Journal of Materials Chemistry C, 2018, 6, 8990-8998.	5.5	85
50	CsPbX ₃ (X = Br, I) perovskite quantum dot embedded low-melting phosphosilicate glasses: controllable crystallization, thermal stability and tunable emissions. Journal of Materials Chemistry C, 2018, 6, 6832-6839.	5.5	134
51	Color tunable dual-phase transparent glass ceramics for warm white light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 738-746.	5.5	75
52	Construction of a Noble-Metal-Free Photocatalytic H ₂ Evolution System Using MoS ₂ /Reduced Graphene Oxide Catalyst and Zinc Porphyrin Photosensitizer. Journal of Physical Chemistry C, 2017, 121, 24452-24462.	3.1	81
53	Ln ³⁺ -Sensitized Mn ⁴⁺ near-infrared upconverting luminescence and dual-modal temperature sensing. Journal of Materials Chemistry C, 2017, 5, 9619-9628.	5.5	91
54	Interface engineering of a noble-metal-free 2D MoS ₂ /Cu-ZnIn ₂ S ₄ photocatalyst for enhanced photocatalytic H ₂ production. Journal of Materials Chemistry A, 2017, 5, 15771-15779.	10.3	185

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55	Mn ⁴⁺ ,Li ⁺ co-doped SrMgAl ₁₀ O ₁₇ phosphor-in-glass: application in high-power warm w-LEDs. Dalton Transactions, 2017, 46, 9959-9968.	3.3	42
56	Study on the iron oxide/glass nanocomposite materials: fabrication, microstructure and ultrafast nonlinear optical properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 17735-17743.	2.2	3
57	A review on Mn ⁴⁺ activators in solids for warm white light-emitting diodes. RSC Advances, 2016, 6, 86285-86296.	3.6	225
58	Persistent and photo-stimulated luminescence in Ce ³⁺ /Cr ³⁺ activated Y ₃ Al ₂ Ga ₃ O ₁₂ phosphors and transparent phosphor-in-glass. Journal of Materials Chemistry C, 2016, 4, 11457-11464.	5.5	51
59	Large-scale room-temperature synthesis and optical properties of perovskite-related Cs ₄ PbBr ₆ fluorophores. Journal of Materials Chemistry C, 2016, 4, 10646-10653.	5.5	183
60	Enhanced luminescence of Mn ⁴⁺ :Y ₃ Al ₅ O ₁₂ red phosphor via impurity doping. Journal of Materials Chemistry C, 2016, 4, 1704-1712.	5.5	177
61	New Eu ³⁺ -activated perovskite La _{0.5} Na _{0.5} TiO ₃ phosphors in glass for warm white light emitting diodes. Dalton Transactions, 2016, 45, 4762-4770.	3.3	99
62	Simultaneous morphology manipulation and upconversion luminescence enhancement of λ^2 -NaYF ₄ :Yb ³⁺ /Er ³⁺ microcrystals by simply tuning the KF dosage. Scientific Reports, 2015, 5, 12745.	3.3	133
63	Hydrothermal Synthesis of Novel K ₂ YbF ₅ :Er ³⁺ /Y ³⁺ Microcrystals with Tunable Red-Green Upconversion Luminescence. Journal of Materials Science, 2015, 50, 6779-6785.	3.7	11
64	Bulk glass ceramics containing Yb ³⁺ /Er ³⁺ : λ^2 -NaGdF ₄ nanocrystals: Phase-separation-controlled crystallization, optical spectroscopy and upconverted temperature sensing behavior. Journal of Alloys and Compounds, 2015, 638, 21-28.	5.5	155
65	Tuning into blue and red: europium single-doped nano-glass-ceramics for potential application in photosynthesis. Journal of Materials Chemistry C, 2015, 3, 3141-3149.	5.5	52
66	Achieving efficient Tb ³⁺ dual-mode luminescence via Gd-sublattice-mediated energy migration in a NaGdF ₄ core-shell nanoarchitecture. Journal of Materials Chemistry C, 2015, 3, 5372-5376.	5.5	60
67	Garnet-based Li ₆ CaLa ₂ Sb ₂ O ₁₂ :Eu ³⁺ red phosphors: a potential color-converting material for warm white light-emitting diodes. Journal of Materials Chemistry C, 2015, 3, 4500-4510.	5.5	137
68	KF-mediated controlled-synthesis of potassium ytterbium fluorides (doped with Er ³⁺) with phase-dependent upconversion luminescence. CrystEngComm, 2015, 17, 7182-7190.	2.6	12
69	Effectively Improved Field Emission Properties of Multiwalled Carbon Nanotubes/Graphenes Composite Field Emitter by Covering on the Si Pyramidal Structure. IEEE Transactions on Electron Devices, 2015, 62, 4305-4312.	3.0	10
70	Dual-Phase Glass Ceramic: Structure, Dual-Modal Luminescence, and Temperature Sensing Behaviors. ACS Applied Materials & Interfaces, 2015, 7, 19484-19493.	8.0	248
71	Advances in transparent glass-ceramic phosphors for white light-emitting diodes—A review. Journal of the European Ceramic Society, 2015, 35, 859-869.	5.7	474