

Yao Cheng

List of Publications by Year in descending order

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papers

2,812
citations

136950

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all docs

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docs citations

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times ranked

2588
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Ratiometric Dual-Emitting Mechanoluminescence: Lanthanide/Transition-Metal Combination Strategy. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	30
2	Toward High-Quality Laser-Driven Lightings: Chromaticity-Tunable Phosphor-in-Glass Film with Phosphor Pattern-Design. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	37
3	Patterned glass ceramic design for high-brightness high-color-quality laser-driven lightings. <i>Journal of Advanced Ceramics</i> , 2022, 11, 862-873.	17.4	40
4	A new class of battery-free, mechanically powered, piezoelectric $\text{Ca}_5\text{Ga}_6\text{O}_{14}:\text{Tb}^{3+}$ phosphors with self-recoverable luminescence. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9554-9562.	5.5	10
5	Smart white lighting and multi-mode optical modulations via photochromism in Dy-doped KNN-based transparent ceramics. <i>Journal of the American Ceramic Society</i> , 2021, 104, 903-916.	3.8	40
6	Thermo-enhanced upconversion luminescence in inert-core/active-shell UCNPs: the inert core matters. <i>Nanoscale</i> , 2021, 13, 6569-6576.	5.6	30
7	Stable CsPbBr_3 -Glass Nanocomposite for Low-cost Wide-Color-Gamut Laser-Driven Projection Display. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100044.	8.7	65
8	$\beta\text{-SiAlON}:\text{Eu}^{2+}$ Phosphor-in-Glass Film: An Efficient Laser-Driven Color Converter for High-Brightness Wide-Color-Gamut Projection Displays. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100317.	8.7	37
9	Constructing highly sensitive ratiometric nanothermometers based on indirectly thermally coupled levels. <i>Chemical Communications</i> , 2021, 57, 9092-9095.	4.1	13
10	Abnormal thermally enhanced upconversion luminescence of lanthanide-doped phosphors: proposed mechanisms and potential applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2220-2230.	5.5	41
11	Laser-direct-writing of molecule-like Ag_m^{n+} nanoclusters in transparent tellurite glass for 3D volumetric optical storage. <i>Nanoscale</i> , 2021, 13, 19663-19670.	5.6	7
12	Plasmon-driven N_2 photofixation in pure water over MoO_3 nanosheets under visible to NIR excitation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2827-2835.	10.3	44
13	X-ray excited $\text{CsPb}(\text{Cl},\text{Br})_3$ perovskite quantum dots-glass composite with long-lifetime. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2234-2238.	5.7	55
14	Reversible multi-mode modulations of optical behavior in photochromic-translucent Nd-doped $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2343-2352.	5.5	68
15	Glass-limited Yb/Er:NaLuF ₄ nanocrystals: reversible hexagonal-to-cubic phase transition and anti-counterfeiting. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16151-16159.	5.5	20
16	A solid-state colorimetric fluorescence Pb^{2+} -sensing scheme: mechanically-driven CsPbBr_3 nanocrystallization in glass. <i>Nanoscale</i> , 2020, 12, 8801-8808.	5.6	22
17	Utilizing Au-CuS heterodimer to intensify upconversion emission of NaGdF ₄ :Yb/Er nanocrystals. <i>Journal of Materials Science</i> , 2020, 55, 6891-6902.	3.7	10
18	High-security-level multi-dimensional optical storage medium: nanostructured glass embedded with LiGa ₅ O ₈ : Mn ²⁺ with photostimulated luminescence. <i>Light: Science and Applications</i> , 2020, 9, 22.	16.6	152

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19	Pumping-controlled multicolor modulation of upconversion emission for dual-mode dynamic anti-counterfeiting. <i>Nanophotonics</i> , 2020, 9, 1519-1528.	6.0	10
20	CsPb(Br,I)3 embedded glass: Fabrication, tunable luminescence, improved stability and wide-color gamut LCD application. <i>Chemical Engineering Journal</i> , 2019, 378, 122255.	12.7	65
21	Perceiving Linear-Velocity by Multiphoton Upconversion. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46379-46385.	8.0	22
22	Nanostructured NdF3 glass ceramic: An efficient bandpass color filter for wide-color-gamut white LED. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2155-2160.	5.7	15
23	Boosting single-band red upconversion luminescence in colloidal NaErF4 nanocrystals: Effects of doping and inert shell. <i>Journal of Rare Earths</i> , 2019, 37, 573-579.	4.8	11
24	Color-filtered phosphor-in-glass for LED-lit LCD with wide color gamut. <i>Ceramics International</i> , 2019, 45, 14432-14438.	4.8	16
25	High Density Static Charges Governed Surface Activation for Long-Range Motion and Subsequent Growth of Au Nanocrystals. <i>Nanomaterials</i> , 2019, 9, 328.	4.1	1
26	Stress-induced CsPbBr3 nanocrystallization on glass surface: Unexpected mechanoluminescence and applications. <i>Nano Research</i> , 2019, 12, 1049-1054.	10.4	50
27	A Photostimulated BaSi ₂ O ₅ :Eu ²⁺ ,Nd ³⁺ Phosphor-in-Glass for Erasable-Rewritable Optical Storage Medium. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900006.	8.7	55
28	Dual-mode color tuning based on upconversion core/triple-shell nanostructure. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3342-3350.	5.5	35
29	The synergistic role of double vacancies within AgGaS ₂ nanocrystals in carrier separation and transfer for efficient photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2019, 9, 5838-5844.	4.1	12
30	Synergistic effect of the rearranged sulfur vacancies and sulfur interstitials for 13-fold enhanced photocatalytic H ₂ production over defective Zn ₂ In ₂ S ₅ nanosheets. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 270-276.	20.2	43
31	Heating-induced abnormal increase in Yb ³⁺ excited state lifetime and its potential application in lifetime luminescence nanothermometry. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 110-116.	6.0	38
32	A novel high-sensitive upconversion thermometry strategy: Utilizing synergistic effect of dual-wavelength lasers excitation to manipulate electron thermal distribution. <i>Sensors and Actuators B: Chemical</i> , 2019, 278, 165-171.	7.8	62
33	Glass Ceramic Phosphors: Towards Long-Lifetime High-Power White Light-Emitting Diode Applications. A Review. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700344.	8.7	256
34	Towards ultra-high sensitive colorimetric nanothermometry: Constructing thermal coupling channel for electronically independent levels. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 498-503.	7.8	33
35	Sn ²⁺ /Mn ²⁺ codoped strontium phosphate (Sr ₂ P ₂ O ₇) phosphor for high temperature optical thermometry. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1546-1552.	5.5	56
36	Enhancing negative thermal quenching effect via low-valence doping in two-dimensional confined core-shell upconversion nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11587-11592.	5.5	45

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37	Broadening the valid temperature range of optical thermometry through dual-mode design. Journal of Materials Chemistry C, 2018, 6, 11178-11183.	5.5	79
38	Narrow-band red-emitting $\text{KZnF}_3:\text{Mn}^{4+}$ fluoroperovskites: insights into electronic/vibronic transition and thermal quenching behavior. Journal of Materials Chemistry C, 2018, 6, 10845-10854.	5.5	39
39	Strategy design for ratiometric luminescence thermometry: circumventing the limitation of thermally coupled levels. Journal of Materials Chemistry C, 2018, 6, 7462-7478.	5.5	194
40	Interfacial Defects Dictated In Situ Fabrication of Yolk-Shell Upconversion Nanoparticles by Electron-Beam Irradiation. Advanced Science, 2018, 5, 1800766.	11.2	23
41	$\text{CsPbBr}_3/\text{EuPO}_4$ dual-phase devitrified glass for highly sensitive self-calibrating optical thermometry. Journal of Materials Chemistry C, 2018, 6, 9964-9971.	5.5	68
42	Non-Rare-Earth $\text{K}_2\text{XF}_7:\text{Mn}^{4+}$ ($X = \text{Ta}, \text{Nb}$): A Highly Efficient Narrow-Band Red Phosphor Enabling the Application in Wide-Color Gamut LCD. Laser and Photonics Reviews, 2017, 11, 1700148.	8.7	120
43	Size-dependent abnormal thermo-enhanced luminescence of ytterbium-doped nanoparticles. Nanoscale, 2017, 9, 13794-13799.	5.6	61
44	A highly-distorted octahedron with a C_{2v} group symmetry inducing an ultra-intense zero phonon line in Mn^{4+} -activated oxyfluoride $\text{Na}_2\text{WO}_2\text{F}_4$. Journal of Materials Chemistry C, 2017, 5, 10524-10532.	5.5	120
45	Fabrication of Co_3O_4 cubic nanoframes: Facet-preferential chemical etching of Fe^{3+} ions to Co_3O_4 nanocubes. Materials Letters, 2009, 63, 837-839.	2.6	14
46	Novel Nanocrystal Heterostructures: Crystallographic-Oriented Growth of SnO_2 Nanorods onto $\gamma\text{-Fe}_2\text{O}_3$ Nanohexahedron. Crystal Growth and Design, 2008, 8, 1727-1729.	3.0	30
47	Shape Control of Monodisperse CdS Nanocrystals: A Hexagon and Pyramid. Journal of Physical Chemistry B, 2006, 110, 9448-9451.	2.6	81
48	pH value-dependant growth of $\gamma\text{-Fe}_2\text{O}_3$ hierarchical nanostructures. Journal of Crystal Growth, 2006, 294, 353-357.	1.5	53
49	MnS Hierarchical Hollow Spheres with Novel Shell Structure. Journal of Physical Chemistry B, 2006, 110, 24399-24402.	2.6	56
50	Synthesis and shape evolution of $\gamma\text{-Fe}_2\text{O}_3$ nanophase through two-step oriented aggregation in solvothermal system. Journal of Crystal Growth, 2005, 284, 221-225.	1.5	31
51	Evolution of Single Crystalline Dendrites from Nanoparticles through Oriented Attachment. Journal of Physical Chemistry B, 2005, 109, 794-798.	2.6	152
52	Two-Step Self-Assembly of Nanodisks into Plate-Built Cylinders through Oriented Aggregation. Journal of Physical Chemistry B, 2005, 109, 11548-11551.	2.6	144
53	Inflection in size-dependence of thermally enhanced up-conversion luminescence of UCNPs. Inorganic Chemistry Frontiers, 0, , .	6.0	1