

Yao Cheng

List of Publications by Year in descending order

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53
papers

2,812
citations

136950

32
h-index

175258

52
g-index

53
all docs

53
docs citations

53
times ranked

2588
citing authors

#	ARTICLE	IF	CITATIONS
1	Class Ceramic Phosphors: Towards Longâ€œLifetime Highâ€œPower White Lightâ€œEmittingâ€œDiode Applicationsâ€œA Review. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700344.	8.7	256
2	Strategy design for ratiometric luminescence thermometry: circumventing the limitation of thermally coupled levels. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7462-7478.	5.5	194
3	Evolution of Single Crystalline Dendrites from Nanoparticles through Oriented Attachment. <i>Journal of Physical Chemistry B</i> , 2005, 109, 794-798.	2.6	152
4	High-security-level multi-dimensional optical storage medium: nanostructured glass embedded with LiGa5O8: Mn ²⁺ with photostimulated luminescence. <i>Light: Science and Applications</i> , 2020, 9, 22.	16.6	152
5	Two-Step Self-Assembly of Nanodisks into Plate-Built Cylinders through Oriented Aggregation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11548-11551.	2.6	144
6	Nonâ€œRareâ€œEarth K ₂ XF ₇ :Mn ⁴⁺ (X = Ta, Nb): A Highlyâ€œEfficient Narrowâ€œBand Red Phosphor Enabling the Application in Wideâ€œColorâ€œGamut LCD. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700148.	8.7	120
7	A highly-distorted octahedron with a C _{2v} group symmetry inducing an ultra-intense zero phonon line in Mn ⁴⁺ -activated oxyfluoride Na ₂ WO ₂ F ₄ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 10524-10532.	5.5	120
8	Shape Control of Monodisperse CdS Nanocrystals:â€œ Hexagon and Pyramid. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9448-9451.	2.6	81
9	Broadening the valid temperature range of optical thermometry through dual-mode design. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11178-11183.	5.5	79
10	CsPbBr ₃ /EuPO ₄ dual-phase devitrified glass for highly sensitive self-calibrating optical thermometry. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9964-9971.	5.5	68
11	Reversible multi-mode modulations of optical behavior in photochromic-translucent Nd-doped K _{0.5} Na _{0.5} NbO ₃ ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2343-2352.	5.5	68
12	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
13	Stable CsPbBr ₃ â€œGlass Nanocomposite for Lowâ€œtendue Wideâ€œColorâ€œGamut Laserâ€œDriven Projection Display. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100044.	8.7	65
14	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
15	Size-dependent abnormal thermo-enhanced luminescence of ytterbium-doped nanoparticles. <i>Nanoscale</i> , 2017, 9, 13794-13799.	5.6	61
16	MnS Hierarchical Hollow Spheres with Novel Shell Structure. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24399-24402.	2.6	56
17	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
18	A Photostimulated BaSi ₂ O ₅ :Eu ²⁺ ,Nd ³⁺ Phosphorâ€œGlass for Erasableâ€œRewritable Optical Storage Medium. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900006.	8.7	55

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19	X-ray excited CsPb(Cl,Br) ₃ perovskite quantum dots-glass composite with long-lifetime. Journal of the European Ceramic Society, 2020, 40, 2234-2238.	5.7	55
20	pH value-dependant growth of Fe_2O_3 hierarchical nanostructures. Journal of Crystal Growth, 2006, 294, 353-357.	1.5	53
21	Stress-induced CsPbBr ₃ nanocrystallization on glass surface: Unexpected mechanoluminescence and applications. Nano Research, 2019, 12, 1049-1054.	10.4	50
22	Enhancing negative thermal quenching effect via low-valence doping in two-dimensional confined core-shell upconversion nanocrystals. Journal of Materials Chemistry C, 2018, 6, 11587-11592.	5.5	45
23	Plasmon-driven N_2 photofixation in pure water over $\text{MoO}_3 \times \text{H}_2\text{O}$ nanosheets under visible to NIR excitation. Journal of Materials Chemistry A, 2020, 8, 2827-2835.	10.3	44
24	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. Applied Catalysis B: Environmental, 2019, 240, 270-276.	20.2	43
25	Abnormal thermally enhanced upconversion luminescence of lanthanide-doped phosphors: proposed mechanisms and potential applications. Journal of Materials Chemistry C, 2021, 9, 2220-2230.	5.5	41
26	Smart white lighting and multi-mode optical modulations via photochromism in Dy-doped KNN-based transparent ceramics. Journal of the American Ceramic Society, 2021, 104, 903-916.	3.8	40
27	Patterned glass ceramic design for high-brightness high-color-quality laser-driven lightings. Journal of Advanced Ceramics, 2022, 11, 862-873.	17.4	40
28	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
29	Heating-induced abnormal increase in Yb^{3+} excited state lifetime and its potential application in lifetime luminescence nanothermometry. Inorganic Chemistry Frontiers, 2019, 6, 110-116.	6.0	38
30	$\text{SiAlON}:\text{Eu}^{2+}$ Phosphor-in-Glass Film: An Efficient Laser-Driven Color Converter for High-Brightness Wide-Corner Gamut Projection Displays. Laser and Photonics Reviews, 2021, 15, 2100317.	8.7	37
31	Toward High-Quality Laser-Driven Lightings: Chromaticity-Tunable Phosphor-in-Glass Film with Phosphor Pattern-Design. Laser and Photonics Reviews, 2022, 16, .	8.7	37
32	Dual-mode color tuning based on upconversion core/triple-shell nanostructure. Journal of Materials Chemistry C, 2019, 7, 3342-3350.	5.5	35
33	Towards ultra-high sensitive colorimetric nanothermometry: Constructing thermal coupling channel for electronically independent levels. Sensors and Actuators B: Chemical, 2018, 256, 498-503.	7.8	33
34	Synthesis and shape evolution of Fe_2O_3 nanophase through two-step oriented aggregation in solvothermal system. Journal of Crystal Growth, 2005, 284, 221-225.	1.5	31
35	Novel Nanocrystal Heterostructures: Crystallographic-Oriented Growth of SnO_2 Nanorods onto Fe_2O_3 Nano-hexahedron. Crystal Growth and Design, 2008, 8, 1727-1729.	3.0	30
36	Thermo-enhanced upconversion luminescence in inert-core/active-shell UCNPs: the inert core matters. Nanoscale, 2021, 13, 6569-6576.	5.6	30

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37	Design of Ratiometric Dual-Emitting Mechanoluminescence: Lanthanide/Transition-Metal Combination Strategy. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	30
38	Interfacial Defects Dictated In Situ Fabrication of Yolk-Shell Upconversion Nanoparticles by Electron-Beam Irradiation. <i>Advanced Science</i> , 2018, 5, 1800766.	11.2	23
39	Perceiving Linear-Velocity by Multiphoton Upconversion. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46379-46385.	8.0	22
40	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
41	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
42	Color-filtered phosphor-in-glass for LED-lit LCD with wide color gamut. <i>Ceramics International</i> , 2019, 45, 14432-14438.	4.8	16
43	Nanostructured NdF ₃ 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
44	Fabrication of Co ₃ O ₄ cubic nanoframes: Facet-preferential chemical etching of Fe ³⁺ ions to Co ₃ O ₄ nanocubes. <i>Materials Letters</i> , 2009, 63, 837-839.	2.6	14
45	Constructing highly sensitive ratiometric nanothermometers based on indirectly thermally coupled levels. <i>Chemical Communications</i> , 2021, 57, 9092-9095.	4.1	13
46	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
47	Boosting single-band red upconversion luminescence in colloidal NaErF ₄ nanocrystals: Effects of doping and inert shell. <i>Journal of Rare Earths</i> , 2019, 37, 573-579.	4.8	11
48	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
49	Pumping-controlled multicolor modulation of upconversion emission for dual-mode dynamic anti-counterfeiting. <i>Nanophotonics</i> , 2020, 9, 1519-1528.	6.0	10
50	A new class of battery-free, mechanically powered, piezoelectric Ca ₅ Ga ₆ O ₁₄ :Tb ³⁺ phosphors with self-recoverable luminescence. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9554-9562.	5.5	10
51	Laser-direct-writing of molecule-like Ag _m ^{x+} nanoclusters in transparent tellurite glass for 3D volumetric optical storage. <i>Nanoscale</i> , 2021, 13, 19663-19670.	5.6	7
52	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
53	Inflection in size-dependence of thermally enhanced up-conversion luminescence of UCNPs. <i>Inorganic Chemistry Frontiers</i> , 0, , .	6.0	1