

Wen Xu

List of Publications by Year in descending order

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132
papers

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50170

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times ranked

7268
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping Lanthanide into Perovskite Nanocrystals: Highly Improved and Expanded Optical Properties. <i>Nano Letters</i> , 2017, 17, 8005-8011.	4.5	672
2	Cerium and Ytterbium Codoped Halide Perovskite Quantum Dots: A Novel and Efficient Downconverter for Improving the Performance of Silicon Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1704149.	11.1	389
3	Ratiometric photoluminescence sensing based on $\text{Ti}_3\text{C}_2\text{MXene}$ quantum dots as an intracellular pH sensor. <i>Nanoscale</i> , 2018, 10, 1111-1118.	2.8	241
4	Local Field Modulation Induced Three-Order Upconversion Enhancement: Combining Surface Plasmon Effect and Photonic Crystal Effect. <i>Advanced Materials</i> , 2016, 28, 2518-2525.	11.1	240
5	Unraveling the Impact of Gold(I)-Thiolate Motifs on the Aggregation-Induced Emission of Gold Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9934-9939.	7.2	196
6	Highly Efficient $\text{LiYF}_4:\text{Yb}^{3+}, \text{Er}^{3+}$ Upconversion Single Crystal under Solar Cell Spectrum Excitation and Photovoltaic Application. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9071-9079.	4.0	151
7	Observation of Considerable Upconversion Enhancement Induced by Cu_2S Plasmon Nanoparticles. <i>ACS Nano</i> , 2016, 10, 5169-5179.	7.3	149
8	ZnO/SnO_2 nanotubes surface engineered by Ag nanoparticles: synthesis, characterization, and highly enhanced HCHO gas sensing properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2174.	2.7	137
9	Temperature-dependent upconversion luminescence and dynamics of $\text{NaYF}_4:\text{Yb}^{3+}/\text{Er}^{3+}$ nanocrystals: influence of particle size and crystalline phase. <i>Dalton Transactions</i> , 2014, 43, 6139-6147.	1.6	135
10	Large Upconversion Enhancement in the Au/Ag Alloy/ $\text{NaYF}_4:\text{Yb}^{3+}, \text{Tm}^{3+}/\text{Er}^{3+}$ Composite Films, and Fingerprint Identification. <i>Advanced Functional Materials</i> , 2015, 25, 5462-5471.	7.8	135
11	A novel upconversion, fluorescence resonance energy transfer biosensor (FRET) for sensitive detection of lead ions in human serum. <i>Nanoscale</i> , 2014, 6, 12573-12579.	2.8	127
12	Samarium-Doped Metal Halide Perovskite Nanocrystals for Single-Component Electroluminescent White Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 2131-2139.	8.8	124
13	Bright Blue Light Emission of Ni^{2+} Ion-Doped CsPbCl_3 Perovskite Quantum Dots Enabling Efficient Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14195-14202.	4.0	118
14	Europium-Doped Lead-Free $\text{Cs}_3\text{Bi}_2\text{Br}_9$ Perovskite Quantum Dots and Ultrasensitive Cu^{2+} Detection. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8397-8404.	3.2	114
15	Plasmonic Photonic Crystals Induced Two-Order Fluorescence Enhancement of Blue Perovskite Nanocrystals and Its Application for High-Performance Flexible Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1804429.	7.8	106
16	Upconversion manipulation by local electromagnetic field. <i>Nano Today</i> , 2017, 17, 54-78.	6.2	103
17	Ti_3C_2 MXene quantum dots/ TiO_2 inverse opal heterojunction electrode platform for superior photoelectrochemical biosensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 131-137.	4.0	101
18	Considerably enhanced exciton emission of CsPbCl_3 perovskite quantum dots by the introduction of potassium and lanthanide ions. <i>Nanoscale</i> , 2018, 10, 14067-14072.	2.8	100

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19	Impact of Host Composition, Codoping, or Tridoping on Quantum-Cutting Emission of Ytterbium in Halide Perovskite Quantum Dots and Solar Cell Applications. <i>Nano Letters</i> , 2019, 19, 6904-6913.	4.5	100
20	Dual Interfacial Modification Engineering with 2D MXene Quantum Dots and Copper Sulphide Nanocrystals Enabled High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2003295.	7.8	100
21	Remarkable enhancement of upconversion fluorescence and confocal imaging of PMMA Opal/NaYF ₄ :Yb ³⁺ , Tm ³⁺ /Er ³⁺ nanocrystals. <i>Chemical Communications</i> , 2013, 49, 3781.	2.2	89
22	A novel strategy for improving upconversion luminescence of NaYF ₄ :Yb, Er nanocrystals by coupling with hybrids of silver plasmon nanostructures and poly(methyl methacrylate) photonic crystals. <i>Nano Research</i> , 2013, 6, 795-807.	5.8	84
23	Synergistic Upconversion Enhancement Induced by Multiple Physical Effects and an Angle-Dependent Anticounterfeit Application. <i>Chemistry of Materials</i> , 2017, 29, 6799-6809.	3.2	81
24	NaYF ₄ :Yb,Tm nanocrystals and TiO ₂ inverse opal composite films: a novel device for upconversion enhancement and solid-based sensing of avidin. <i>Nanoscale</i> , 2014, 6, 5859-5870.	2.8	79
25	Controllable Synthesis and Size-Dependent Luminescent Properties of YVO ₄ :Eu ³⁺ Nanospheres and Microspheres. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14018-14024.	1.5	78
26	Impurity Ions Codoped Cesium Lead Halide Perovskite Nanocrystals with Bright White Light Emission toward Ultraviolet-White Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39040-39048.	4.0	78
27	Phase transition, size control and color tuning of NaREF ₄ :Yb ³⁺ , Er ³⁺ (RE = Y, Lu) nanocrystals. <i>Nanoscale</i> , 2013, 5, 3412.	2.8	77
28	Highly stable and water-soluble monodisperse CsPbX ₃ /SiO ₂ nanocomposites for white-LED and cells imaging. <i>Nanotechnology</i> , 2018, 29, 345703.	1.3	76
29	All-inorganic perovskite quantum dot/TiO ₂ inverse opal electrode platform: stable and efficient photoelectrochemical sensing of dopamine under visible irradiation. <i>Nanoscale</i> , 2018, 10, 10505-10513.	2.8	73
30	Extremely efficient quantum-cutting Cr ³⁺ , Ce ³⁺ , Yb ³⁺ tridoped perovskite quantum dots for highly enhancing the ultraviolet response of Silicon photodetectors with external quantum efficiency exceeding 70%. <i>Nano Energy</i> , 2020, 78, 105278.	8.2	73
31	Plasmon-Enhanced Upconversion Luminescence on Vertically Aligned Gold Nanorod Monolayer Supercrystals. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11667-11674.	4.0	71
32	Semiconductor plasmon enhanced monolayer upconversion nanoparticles for high performance narrowband near-infrared photodetection. <i>Nano Energy</i> , 2019, 61, 211-220.	8.2	71
33	Modulation of upconversion luminescence in Er ³⁺ , Yb ³⁺ -codoped lanthanide oxyfluoride (YOF, GdOF). <i>TJ ETQq1 1 0.784314 rgBT /Over</i>	2.7	70
34	Semiconductor plasmon-sensitized broadband upconversion and its enhancement effect on the power conversion efficiency of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16559-16567.	5.2	70
35	Noninvasive temperature monitoring for dual-modal tumor therapy based on lanthanide-doped up-conversion nanocomposites. <i>Biomaterials</i> , 2019, 201, 42-52.	5.7	67
36	A novel approach for designing efficient broadband photodetectors expanding from deep ultraviolet to near infrared. <i>Light: Science and Applications</i> , 2022, 11, 91.	7.7	61

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37	Huge upconversion luminescence enhancement by a cascade optical field modulation strategy facilitating selective multispectral narrow-band near-infrared photodetection. <i>Light: Science and Applications</i> , 2020, 9, 184.	7.7	60
38	Ultra-broad plasma resonance enhanced multicolor emissions in an assembled Ag/NaYF ₄ :Yb,Er nano-film. <i>Nanoscale</i> , 2012, 4, 6971.	2.8	59
39	Semiconductor Plasmon Induced Up-Conversion Enhancement in mCu ₂ S@SiO ₂ @Y ₂ O ₃ :Yb ³⁺ /Er ³⁺ Core-Shell Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35226-35233.	5.9	59
40	YVO ₄ :Eu ³⁺ ,Bi ³⁺ UV to visible conversion nano-films used for organic photovoltaic solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 12331.	6.7	57
41	An air-stable artificial synapse based on a lead-free double perovskite Cs ₂ AgBiBr ₆ film for neuromorphic computing. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5706-5712.	2.7	56
42	Incorporating of Lanthanides Ions into Perovskite Film for Efficient and Stable Perovskite Solar Cells. <i>Small</i> , 2020, 16, e2001770.	5.2	55
43	Chiral electronic transitions of YVO ₄ :Eu ³⁺ nanoparticles in cellulose based photonic materials with circularly polarized excitation. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3384-3390.	2.7	54
44	Localized surface plasmon resonances in self-doped copper chalcogenide binary nanocrystals and their emerging applications. <i>Nano Today</i> , 2020, 33, 100892.	6.2	53
45	Broad White Light and Infrared Emission Bands in YVO ₄ :Yb ³⁺ ,Ln ³⁺ (Ln ³⁺ = Tj ETQq1 1 0.784314 rgBT /Over 1.1 51)	1.1	51
46	Ag-SiO ₂ -Er ₂ O ₃ Nanocomposites: Highly Effective Upconversion Luminescence at High Power Excitation and High Temperature. <i>Scientific Reports</i> , 2015, 4, 5087.	1.6	49
47	Yb ₂ O ₃ /Au Upconversion Nanocomposites with Broad-Band Excitation for Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3258-3265.	1.5	46
48	Super-intense white upconversion emission of Yb ₂ O ₃ polycrystals and its application on luminescence converter of dye-sensitized solar cells. <i>Optics Letters</i> , 2013, 38, 3340.	1.7	45
49	Paper-based upconversion fluorescence resonance energy transfer biosensor for sensitive detection of multiple cancer biomarkers. <i>Scientific Reports</i> , 2016, 6, 23406.	1.6	45
50	Influence of Concentration Effect and Au Coating on Photoluminescence Properties of YVO ₄ :Eu ³⁺ Nanoparticle Colloids. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9975-9980.	1.5	42
51	Inhibited Long-Scale Energy Transfer in Dysprosium Doped Yttrium Vanadate Inverse Opal. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2297-2302.	1.5	42
52	320-fold luminescence enhancement of [Ru(dpp) ₃]Cl ₂ dispersed on PMMA opal photonic crystals and highly improved oxygen sensing performance. <i>Light: Science and Applications</i> , 2014, 3, e209-e209.	7.7	42
53	High brightness blue light-emitting diodes based on CsPb(Cl/Br) ₃ perovskite QDs with phenethylammonium chloride passivation. <i>Nanoscale</i> , 2020, 12, 11728-11734.	2.8	42
54	Upconversion ladder enabled super-sensitive narrowband near-infrared photodetectors based on rare earth doped fluorine perovskite nanocrystals. <i>Nano Energy</i> , 2020, 76, 105103.	8.2	40

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55	A novel upconversion luminescence derived photoelectrochemical immunoassay: ultrasensitive detection to alpha-fetoprotein. <i>Nanoscale</i> , 2017, 9, 16357-16364.	2.8	39
56	The up-conversion luminescent properties and silver-modified luminescent enhancement of YVO ₄ :Yb ³⁺ , Er ³⁺ NPs. <i>Dalton Transactions</i> , 2012, 41, 13525.	1.6	38
57	Fluorescence resonance energy transfer between NaYF ₄ :Yb,Tm upconversion nanoparticles and gold nanorods: Near-infrared responsive biosensor for streptavidin. <i>Journal of Luminescence</i> , 2014, 147, 278-283.	1.5	38
58	Highly improved upconversion luminescence in NaGd(WO ₄) ₂ :Yb ³⁺ /Tm ³⁺ inverse opal photonic crystals. <i>Nanoscale</i> , 2015, 7, 1363-1373.	2.8	37
59	Controlled size and morphology, and phase transition of YF ₃ :Yb ³⁺ ,Er ³⁺ and YOF:Yb ³⁺ ,Er ³⁺ nanocrystals for fine color tuning. <i>Journal of Materials Chemistry C</i> , 2016, 4, 331-339.	2.7	37
60	Two-dimensional Ti ₃ C ₂ MXene-based nanostructures for emerging optoelectronic applications. <i>Materials Horizons</i> , 2021, 8, 2929-2963.	6.4	37
61	Highly sensitive and selective detection of mercury ions based on up-conversion FRET from NaYF ₄ :Yb ³⁺ /Er ³⁺ nanophosphors to CdTe quantum dots. <i>RSC Advances</i> , 2015, 5, 99099-99106.	1.7	36
62	Enhancing the exciton emission of CsPbCl ₃ perovskite quantum dots by incorporation of Rb ⁺ ions. <i>Materials Research Bulletin</i> , 2019, 112, 142-146.	2.7	36
63	Unraveling the Impact of Gold(I) Thiolate Motifs on the Aggregation-Induced Emission of Gold Nanoclusters. <i>Angewandte Chemie</i> , 2020, 132, 10020-10025.	1.6	36
64	NaYF ₄ :Yb ³⁺ ,Tm ³⁺ inverse opal photonic crystals and NaYF ₄ :Yb ³⁺ ,Tm ³⁺ /TiO ₂ composites: synthesis, highly improved upconversion properties and NIR photoelectric response. <i>Journal of Materials Chemistry C</i> , 2016, 4, 659-662.	2.7	35
65	Tunable silica shell and its modification on photoluminescent properties of Y ₂ O ₃ :Eu ³⁺ @SiO ₂ nanocomposites. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	34
66	Nd ₂ O ₃ /Au nanocomposites: upconversion broadband emission and enhancement under near-infrared light excitation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5857-5863.	2.7	34
67	Upconversion luminescence enhancement of Yb ³⁺ , Nd ³⁺ sensitized NaYF ₄ core-shell nanocrystals on Ag grating films. <i>Chemical Communications</i> , 2015, 51, 1502-1505.	2.2	34
68	Artificial Synapse Based on Organic-Inorganic Hybrid Perovskite with Electric and Optical Modulation. <i>Advanced Electronic Materials</i> , 2021, 7, 2100291.	2.6	34
69	Fabrication of Au-Ag nanocage@NaYF ₄ @NaYF ₄ :Yb,Er Core-Shell Hybrid and its Tunable Upconversion Enhancement. <i>Scientific Reports</i> , 2017, 7, 41079.	1.6	33
70	Remarkable Enhancement of Upconversion Luminescence on Cap-Ag/PMMA Ordered Platform and Trademark Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37128-37135.	4.0	33
71	Bright red YCl ₃ -promoted CsPbI ₃ perovskite nanorods towards efficient light-emitting diode. <i>Nano Energy</i> , 2021, 81, 105615.	8.2	33
72	Mn ²⁺ ions doped lead-free zero-dimensional K ₃ SbCl ₆ perovskite nanocrystals towards white light emitting diodes. <i>Chemical Engineering Journal</i> , 2021, 413, 127415.	6.6	33

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73	Self-assembly, highly modified spontaneous emission and energy transfer properties of LaPO ₄ :Ce ³⁺ , Tb ³⁺ inverse opals. Dalton Transactions, 2013, 42, 8049.	1.6	32
74	Broadband Plasmonic Antenna Enhanced Upconversion and Its Application in Flexible Fingerprint Identification. Advanced Optical Materials, 2018, 6, 1701119.	3.6	32
75	Size-dependent downconversion near-infrared emission of NaYF ₄ :Yb ³⁺ ,Er ³⁺ nanoparticles. Journal of Materials Chemistry C, 2017, 5, 2451-2458.	2.7	31
76	Downconversion from visible to near infrared through multi-wavelength excitation in Er ³⁺ /Yb ³⁺ co-doped NaYF ₄ nanocrystals. Journal of Applied Physics, 2011, 110, .	1.1	29
77	Broadband Ultraviolet Photodetectors Based on Cerium Doped Lead-Free Cs ₃ MnBr ₅ Metal Halide Nanocrystals. ACS Sustainable Chemistry and Engineering, 2021, 9, 4980-4987.	3.2	29
78	Highly modified spontaneous emissions in YVO ₄ :Eu ³⁺ inverse opal and refractive index sensing application. Applied Physics Letters, 2012, 100, 081104.	1.5	28
79	Phonon-modulated upconversion luminescence properties in some Er ³⁺ and Yb ³⁺ co-activated oxides. Journal of Materials Chemistry C, 2014, 2, 4642.	2.7	28
80	Chiral nematic mesoporous films of Y ₂ O ₃ :Eu ³⁺ with tunable optical properties and modulated photoluminescence. Journal of Materials Chemistry C, 2014, 2, 9189-9195.	2.7	28
81	Remarkable enhancement of upconversion luminescence on 2-D anodic aluminum oxide photonic crystals. Nanoscale, 2016, 8, 10004-10009.	2.8	28
82	Self-powered UV photodetectors based on CsPbCl ₃ nanowires enabled by the synergistic effect of acetate and lanthanide ion passivation. Chemical Engineering Journal, 2021, 426, 131310.	6.6	28
83	Self-assembly and modified luminescence properties of NaY(MoO ₄) ₂ :Tb ³⁺ , Eu ³⁺ inverse opals. Dalton Transactions, 2014, 43, 13293.	1.6	26
84	Double Stopband Bilayer Photonic Crystal Based Upconversion Fluorescence PSA Sensor. Sensors and Actuators B: Chemical, 2021, 326, 128816.	4.0	26
85	Observation of Ultrabroad Infrared Emission Bands in Er ₂ O ₃ , Pr ₂ O ₃ , Nd ₂ O ₃ , and Sm ₂ O ₃ Polycrystals. Applied Physics Express, 2012, 5, 102701.	1.1	24
86	Remarkable fluorescence enhancement in YVO ₄ :Eu ³⁺ @Ag nano-hybrids induced by interface effect. RSC Advances, 2012, 2, 2047.	1.7	23
87	Efficient chromium ion passivated CsPbCl ₃ :Mn perovskite quantum dots for photon energy conversion in perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 12323-12329.	2.7	23
88	Plasmonic gold nanorods decorated Ti ₃ C ₂ MXene quantum dots-interspersed nanosheet for full-spectrum photoelectrochemical water splitting. Chemical Engineering Journal, 2021, 426, 130818.	6.6	23
89	Photoluminescence enhancement of carbon dots induced by hybrids of photonic crystals and gold-silver alloy nanoparticles. Journal of Materials Chemistry C, 2018, 6, 147-152.	2.7	22
90	In situ preparation of two-dimensional ytterbium ions doped all-inorganic perovskite nanosheets for high-performance visual dual-bands photodetectors. Nano Energy, 2022, 93, 106815.	8.2	22

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91	Observation of upconversion white light and ultrabroad infrared emission in YbAC:Ln ³⁺ (Ln = Nd, Sm, Tb, Er). Applied Physics Express, 2015, 8, 072602.	1.1	21
92	Cesium tin halide perovskite quantum dots as an organic photoluminescence probe for lead ion. Journal of Luminescence, 2019, 216, 116711.	1.5	21
93	Ce6-C6-TPZ co-loaded albumin nanoparticles for synergistic combined PDT-chemotherapy of cancer. Journal of Materials Chemistry B, 2019, 7, 5797-5807.	2.9	21
94	Aluminum-doped lead-free double perovskite Cs ₂ AgBiCl ₆ nanocrystals with ultrahigh stability towards white light emitting diodes. Materials Research Bulletin, 2022, 147, 111645.	2.7	21
95	Inhibited local thermal effect in upconversion luminescence of YVO ₄ :Yb ³⁺ , Er ³⁺ inverse opals. Optics Express, 2012, 20, 29673.	1.7	20
96	Highly modified spontaneous emission in NaY(MoO ₄) ₂ :Yb ³⁺ /Er ³⁺ inverse opal photonic crystals. RSC Advances, 2015, 5, 104862-104869.	1.7	16
97	Highly controllable synthesis of MAPbI ₃ perovskite nanocrystals with long carrier lifetimes and narrow band gap for application in photodetectors. Journal of Alloys and Compounds, 2021, 872, 159589.	2.8	16
98	Efficient energy transfer from inserted CdTe quantum dots to YVO ₄ :Eu ³⁺ inverse opals: a novel strategy to improve and expand visible excitation of rare earth ions. Nanoscale, 2014, 6, 8075.	2.8	15
99	Fine-tuning of multiple upconversion emissions by controlling the crystal phase and morphology between GdF ₃ :Yb ³⁺ , Tm ³⁺ and GdOF:Yb ³⁺ , Tm ³⁺ nanocrystals. RSC Advances, 2017, 7, 2426-2434.	1.7	15
100	Plasmonic enhancement of the upconversion fluorescence in YVO ₄ :Yb ³⁺ , Er ³⁺ nanocrystals based on the porous Ag film. Nanotechnology, 2015, 26, 145602.	1.3	14
101	Effect of Cd-phosphonate complex on the self-assembly structure of colloidal nanorods. Materials Letters, 2016, 180, 85-88.	1.3	14
102	Plasmon multiwavelength-sensitized luminescence enhancement of highly transparent Ag/YVO ₄ :Eu ³⁺ /PMMA film. Journal of Luminescence, 2018, 200, 158-163.	1.5	14
103	Luminescence carbon dot-based nanofibers for a water-insoluble drug release system and their monitoring of drug release. Journal of Materials Chemistry B, 2018, 6, 3579-3585.	2.9	14
104	Highly efficient ligand-modified manganese ion doped CsPbCl ₃ perovskite quantum dots for photon energy conversion in silicon solar cells. Nanoscale, 2020, 12, 18621-18628.	2.8	14
105	Spectral and spatial characterization of upconversion luminescent nanocrystals as nanowaveguides. Nanoscale, 2017, 9, 9238-9245.	2.8	13
106	Ni ²⁺ and Pr ³⁺ Co-doped CsPbCl ₃ perovskite quantum dots with efficient infrared emission at 1300 nm. Nanoscale, 2021, 13, 16598-16607.	2.8	13
107	A strategy for calibrating the actual quantum efficiency of quantum cutting in YVO ₄ :Bi ³⁺ (Nd ³⁺), Yb ³⁺ . Journal of Applied Physics, 2013, 113, .	1.1	12
108	Cerium-Doped Perovskite Nanocrystals for Extremely High-Performance Deep-Ultraviolet Photoelectric Detection. Advanced Optical Materials, 2021, 9, 2100423.	3.6	12

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109	ZnWO ₄ /ZnWO ₄ ·nEu ³⁺ inverse opal photonic crystal scintillator: efficient phosphors in radiation detection. RSC Advances, 2015, 5, 82748-82755.	1.7	11
110	Self-organized helical superstructure of photonic cellulose loaded with upconversion nanoparticles showing modulated luminescence. RSC Advances, 2016, 6, 76231-76236.	1.7	11
111	Strong upconverting and downshifting emission of Mn ²⁺ ions in a Yb,Tm:NaYF ₄ @NaLuF ₄ /Mn:CsPbCl ₃ core/shell heterostructure towards dual-modal anti-counterfeiting. Chemical Communications, 2020, 56, 14609-14612.	2.2	11
112	Controllable chrominance and highly improved luminescent quantum yield of YV _{1-x} P _x O ₄ : Tm, Dy, Eu inverse opal white light phosphors. Optics Express, 2013, 21, 25744.	1.7	10
113	Two-terminal organic optoelectronic synapse based on poly(3-hexylthiophene) for neuromorphic computing. Organic Electronics, 2022, 100, 106390.	1.4	10
114	Enhanced upconversion luminescence on the plasmonic architecture of Au@Ag nanocages. RSC Advances, 2016, 6, 86297-86300.	1.7	9
115	Enhanced rare earth photoluminescence in inverse opal photonic crystals and its application for pH sensing. Nanotechnology, 2016, 27, 405202.	1.3	9
116	Efficient Radiative Enhancement in Perovskite Light-Emitting Devices through Involving a Novel Sandwich Localized Surface Plasmon Structure. Small Methods, 2022, 6, e2200163.	4.6	9
117	Highly effective upconversion broad-band luminescence and enhancement in Dy ₂ O ₃ /Au and Sm ₂ O ₃ /Au composites. Journal of Luminescence, 2017, 181, 352-359.	1.5	8
118	High fluorescence LaOBr/coumarin organic-inorganic composite nanomaterials for ultra-sensitive Fe ³⁺ sensing, fluorescence imaging and water-based ink anti-counterfeiting applications. Journal of Materials Chemistry C, 2020, 8, 13733-13742.	2.7	8
119	Introducing ytterbium acetate to luminescent CsPbCl ₃ nanocrystals for enhanced sensitivity of Cu ²⁺ detection. Inorganic Chemistry Frontiers, 2021, 9, 44-50.	3.0	8
120	H ₂ O ₂ decomposition catalyzed by strontium cobaltites and their application in Rhodamine B degradation in aqueous medium. Journal of Materials Science, 2019, 54, 8216-8225.	1.7	7
121	Flexible double narrowband near-infrared photodetector based on PMMA/core-shell upconversion nanoparticle composites. Journal of Rare Earths, 2022, 40, 211-217.	2.5	7
122	Synergistic Regulation Effect of Nitrate and Calcium Ions for Highly Luminescent and Robust CsPbCl ₃ Perovskite. Small, 2022, 18, e2106147.	5.2	7
123	Narrowband Near-Infrared Photodetectors Based on Perovskite Waveguide Devices. Journal of Physical Chemistry Letters, 2022, 13, 6057-6063.	2.1	7
124	Multi-wavelength pumped upconversion enhancement induced by Cu _{2-x} S plasmonic nanoparticles in NaYF ₄ @Cu _{2-x} S core-shell structure. Optics Letters, 2021, 46, 5.	1.7	6
125	Design of multifunctional near-infrared organic heterojunction and double hole transport layer to improve efficiency and stability of perovskite solar cells. Chemical Engineering Journal, 2022, 431, 133186.	6.6	5
126	Highly Stable and Efficient Mn ²⁺ Doping Zero-Dimension Cs ₂ Zn _x Pb _{1-x} Cl ₄ Alloyed Nanorods toward White Electroluminescent Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 2379-2387.	2.1	5

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127	Tunable concentration-dependent upconversion and downconversion luminescence in NaYF ₄ : Yb ³⁺ , Er ³⁺ @ NaYF ₄ : Yb ³⁺ , Nd ³⁺ core-shell nanocrystals for a dual-mode anti-counterfeiting imaging application. <i>Optics Letters</i> , 2022, 47, 2814.	1.7	3
128	Supersensitive sensing based on upconversion nanoparticles through cascade photon amplification at single-particle level. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132125.	4.0	3
129	Communication: Excitation band modulation with high-order photonic band gap in PMMA:Eu(TTA) ₃ (TPPO) ₂ opals. <i>Journal of Chemical Physics</i> , 2013, 138, 181103.	1.2	2
130	Coherent power amplification of third-order harmonic femtosecond pulses at thin-film up-conversion nanoparticles. <i>Scientific Reports</i> , 2019, 9, 5094.	1.6	2
131	Carrier dynamics of CdS/MoS ₂ heterostructure nanocrystal films affected by annealing effect. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	1
132	Three-order fluorescence enhancement of perovskite nanocrystals using plasmonic Ag@SiO ₂ nanocomposites. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	1