

List of Publications by Year in descending order

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117625

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71685

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87
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docs citations

87
times ranked

5577
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in highly doped upconversion nanoparticles. Nature Communications, 2018, 9, 2415.	12.8	793
2	Amplified stimulated emission in upconversion nanoparticles for super-resolution nanoscopy. Nature, 2017, 543, 229-233.	27.8	643
3	Advances and challenges for fluorescence nanothermometry. Nature Methods, 2020, 17, 967-980.	19.0	333
4	Optical Nanomaterials and Enabling Technologies for High-Security-Level Anticounterfeiting. Advanced Materials, 2020, 32, e1901430.	21.0	305
5	Activation of the surface dark-layer to enhance upconversion in a thermal field. Nature Photonics, 2018, 12, 154-158.	31.4	270
6	Recent advances in bismuth activated photonic materials. Progress in Materials Science, 2014, 64, 1-72.	32.8	255
7	Transparent glass-ceramics functionalized by dispersed crystals. Progress in Materials Science, 2018, 97, 38-96.	32.8	236
8	Lanthanide-doped NaGdF ₄ core-shell nanoparticles for non-contact self-referencing temperature sensors. Nanoscale, 2014, 6, 5675-5679.	5.6	231
9	Single-particle spectroscopy for functional nanomaterials. Nature, 2020, 579, 41-50.	27.8	167
10	High-sensitivity imaging of time-domain near-infrared light transducer. Nature Photonics, 2019, 13, 525-531.	31.4	166
11	Ultrasensitive Polarized Up-Conversion of Tm ³⁺ -Yb ³⁺ Doped F ₂ -NaYF ₄ Single Nanorod. Nano Letters, 2013, 13, 2241-2246.	9.1	147
12	Future and challenges for hybrid upconversion nanosystems. Nature Photonics, 2019, 13, 828-838.	31.4	145
13	Impact of Lanthanide Nanomaterials on Photonic Devices and Smart Applications. Small, 2018, 14, e1801882.	10.0	128
14	Efficient broadband near-infrared quantum cutting for solar cells. Optics Express, 2010, 18, 9671.	3.4	115
15	Broadband downconversion based infrared quantum cutting by cooperative energy transfer from Eu ²⁺ to Yb ³⁺ in glasses. Applied Physics Letters, 2009, 95, .	3.3	103
16	Ultrasensitive Ratiometric Nanothermometer with Large Dynamic Range and Photostability. Chemistry of Materials, 2019, 31, 9480-9487.	6.7	103
17	Quantitative Lateral Flow Strip Sensor Using Highly Doped Upconversion Nanoparticles. Analytical Chemistry, 2018, 90, 12356-12360.	6.5	98
18	Up-conversion luminescence in LaF ₃ :Ho ³⁺ via two-wavelength excitation for use in solar cells. Journal of Materials Chemistry C, 2013, 1, 8023.	5.5	66

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19	Polarization modulated upconversion luminescence: single particle vs. few-particle aggregates. <i>Nanoscale</i> , 2015, 7, 6462-6466.	5.6	65
20	Quantitatively Monitoring <i>In Situ</i> Mitochondrial Thermal Dynamics by Upconversion Nanoparticles. <i>Nano Letters</i> , 2021, 21, 1651-1658.	9.1	60
21	Emerging role of machine learning in light-matter interaction. <i>Light: Science and Applications</i> , 2019, 8, 84.	16.6	56
22	Intense multiphoton upconversion of Yb ³⁺ -Tm ³⁺ doped β -NaYF ₄ individual nanocrystals by saturation excitation. <i>Journal of Materials Chemistry C</i> , 2015, 3, 364-369.	5.5	55
23	Thermally enhanced NIR-NIR anti-Stokes emission in rare earth doped nanocrystals. <i>Nanoscale</i> , 2019, 11, 12547-12552.	5.6	53
24	Low threshold lasing emissions from a single upconversion nanocrystal. <i>Nature Communications</i> , 2020, 11, 6156.	12.8	49
25	Broadband mid-infrared 2.8 μ m emission in Ho ³⁺ /Yb ³⁺ -codoped germanate glasses. <i>Journal of Luminescence</i> , 2016, 171, 143-148.	3.1	48
26	Intense infrared emission of Er ³⁺ in Ca ₈ Mg(SiO ₄) ₄ Cl ₂ phosphor from energy transfer of Eu ²⁺ by broadband down-conversion. <i>Optics Express</i> , 2010, 18, 21663.	3.4	45
27	Broadband spectral modification from visible light to near-infrared radiation using Ce ³⁺ -Er ³⁺ codoped yttrium aluminium garnet. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13759.	2.8	45
28	Analysis on energy transfer process of Ho ³⁺ doped fluoroaluminate glass sensitized by Yb ³⁺ for mid-infrared 2.85 μ m emission. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 149, 41-50.	2.3	45
29	Upconversion luminescence behavior of single nanoparticles. <i>Nanoscale</i> , 2015, 7, 15026-15036.	5.6	45
30	Lanthanide-activated nanoconstructs for optical multiplexing. <i>Coordination Chemistry Reviews</i> , 2020, 415, 213328.	18.8	45
31	Enhanced downconversion luminescence by co-doping Ce ³⁺ in Tb ³⁺ -Yb ³⁺ doped borate glasses. <i>Chemical Physics Letters</i> , 2010, 486, 116-118.	2.6	44
32	Highly efficient mid-infrared 2.8 μ m emission in Ho ³⁺ /Yb ³⁺ -codoped germanate glass. <i>Optical Materials Express</i> , 2015, 5, 1431.	3.0	41
33	Light and heat driven precipitation of copper nanoparticles inside Cu ²⁺ -doped borate glasses. <i>Chemical Physics Letters</i> , 2010, 485, 91-94.	2.6	40
34	A volumetric full-color display realized by frequency upconversion of a transparent composite incorporating dispersed nonlinear optical crystals. <i>NPG Asia Materials</i> , 2017, 9, e394-e394.	7.9	36
35	Nanorods with multidimensional optical information beyond the diffraction limit. <i>Nature Communications</i> , 2020, 11, 6047.	12.8	35
36	Broadband down-conversion spectral modification based on energy transfer. <i>Optical Materials</i> , 2010, 33, 153-158.	3.6	34

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37	Broadband downshifting luminescence in Cr ³⁺ -Yb ³⁺ codoped garnet for efficient photovoltaic generation. <i>Optics Express</i> , 2013, 21, 4167.	3.4	34
38	Up-conversion hybrid nanomaterials for light- and heat-driven applications. <i>Progress in Materials Science</i> , 2021, 121, 100838.	32.8	34
39	Broadband Near-Infrared Quantum Cutting in Eu ²⁺ and Yb ³⁺ Ions Co-doped CaAl ₂ O ₄ Phosphor. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1073.	2.9	33
40	Unusual luminescence quenching and reviving behavior of Bi-doped germanate glasses. <i>Optics Express</i> , 2011, 19, 23436.	3.4	32
41	Persistent luminescence of SrAl ₂ O ₄ : Eu ²⁺ , Dy ³⁺ , Cr ³⁺ phosphors in the tissue transparency window. <i>Materials Chemistry and Physics</i> , 2014, 147, 772-776.	4.0	31
42	Networking State of Ytterbium Ions Probing the Origin of Luminescence Quenching and Activation in Nanocrystals. <i>Advanced Science</i> , 2021, 8, 2003325.	11.2	31
43	Boosting NIR-driven photocatalytic water splitting by constructing 2D/3D epitaxial heterostructures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13629-13634.	10.3	30
44	A discussion on spectral modification from visible to near-infrared based on energy transfer for silicon solar cells. <i>Optical Materials</i> , 2012, 34, 901-905.	3.6	29
45	Emission stability and reversibility of upconversion nanocrystals. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9227-9234.	5.5	27
46	Helix Shape Power-Dependent Properties of Single Upconversion Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2883-2890.	4.6	27
47	Preselectable Optical Fingerprints of Heterogeneous Upconversion Nanoparticles. <i>Nano Letters</i> , 2021, 21, 7659-7668.	9.1	27
48	Broad-Band Excited Quantum Cutting in Eu ²⁺ -Yb ³⁺ Co-doped Aluminosilicate Glasses. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1146.	2.9	26
49	Dual-functional F^{2-} -NaYF ₄ : Yb ³⁺ , Er ³⁺ nanoparticles for bioimaging and temperature sensing. <i>Optical Materials Express</i> , 2016, 6, 1056.	3.0	26
50	Defect engineering in lanthanide doped luminescent materials. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214178.	18.8	26
51	Enhancing Hybrid Upconversion Nanosystems via Synergistic Effects of Moiety Engineered NIR Dyes. <i>Nano Letters</i> , 2021, 21, 9862-9868.	9.1	26
52	Space-selective crystallization of glass induced by femtosecond laser irradiation. <i>Journal of Non-Crystalline Solids</i> , 2014, 383, 91-96.	3.1	24
53	Controllable space selective precipitation of copper nanoparticles in borosilicate glasses using ultrafast laser irradiation. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2380-2383.	3.1	23
54	Integrated Strategy for High Luminescence Intensity of Upconversion Nanocrystals. <i>ACS Photonics</i> , 2017, 4, 1930-1936.	6.6	22

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55	Broadband Near-Infrared Luminescence from $\hat{\text{T}}^3$ -ray Irradiated Bismuth-Doped Y4GeO8 Crystals. Journal of the Electrochemical Society, 2011, 158, G203.	2.9	21
56	Quantum Cutting in Luminescent Glasses and Glass Ceramics. International Journal of Applied Glass Science, 2012, 3, 299-308.	2.0	21
57	Persistent Near Infrared Phosphorescence from Rare Earth Ions Co-doped Strontium Aluminate Phosphors. Journal of the Electrochemical Society, 2011, 158, K17.	2.9	19
58	Bispecific Antibody-Functionalized Upconversion Nanoprobe. Analytical Chemistry, 2018, 90, 3024-3029.	6.5	18
59	High Spatial and Temporal Resolution NIR-IIb Gastrointestinal Imaging in Mice. Nano Letters, 2022, 22, 2793-2800.	9.1	18
60	Broadband spectral conversion of visible light to near-infrared emission via energy transfer from Ce^{3+} to $\text{Nd}^{3+}/\text{Yb}^{3+}$ in YAG. Journal of Materials Research, 2011, 26, 689-692.	2.6	16
61	Enhanced Multiphoton Upconversion in Single Nanowires by Waveguiding Excitation. Advanced Optical Materials, 2016, 4, 1174-1178.	7.3	16
62	Topological nanophotonics for photoluminescence control. Nanophotonics, 2020, 10, 435-441.	6.0	16
63	Power-Dependent Optimal Concentrations of Tm^{3+} and Yb^{3+} in Upconversion Nanoparticles. Journal of Physical Chemistry Letters, 2022, 13, 5316-5323.	4.6	16
64	Direct cation exchange of surface ligand capped upconversion nanocrystals to produce strong luminescence. Chemical Communications, 2018, 54, 9587-9590.	4.1	13
65	Stable and Highly Efficient Antibody-Nanoparticles Conjugation. Bioconjugate Chemistry, 2021, 32, 1146-1155.	3.6	13
66	Triplet state brightens upconversion. Nature Photonics, 2018, 12, 378-379.	31.4	12
67	Stratified Disk Microrobots with Dynamic Maneuverability and Proton-Activatable Luminescence for <i>in Vivo</i> Imaging. ACS Nano, 2021, 15, 19924-19937.	14.6	12
68	NIR-II emissive properties of 808-nm-excited lanthanide-doped nanoparticles for multiplexed <i>in vivo</i> imaging. Journal of Luminescence, 2022, 242, 118597.	3.1	11
69	Broadband downconversion from oxygen-deficient centers to Yb^{3+} in germanate glasses. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2185.	2.1	10
70	Ultraviolet to near-infrared spectral modification in Ce^{3+} and Yb^{3+} codoped phosphate glasses. Journal of Non-Crystalline Solids, 2011, 357, 2336-2339.	3.1	10
71	Optical Fingerprint Classification of Single Upconversion Nanoparticles by Deep Learning. Journal of Physical Chemistry Letters, 2021, 12, 10242-10248.	4.6	10
72	Ultrafast modification of elements distribution and local luminescence properties in glass. Journal of Non-Crystalline Solids, 2012, 358, 1185-1189.	3.1	9

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73	Raman spectroscopic investigation on femtosecond laser induced residual stress and element distribution in bismuth germanate glasses. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 307-311.	2.5	9
74	Multiplexed structured illumination super-resolution imaging with lifetime-engineered upconversion nanoparticles. <i>Nanoscale Advances</i> , 2021, 4, 30-38.	4.6	9
75	Shape- and size-controllable microstructure on glass surface induced by femtosecond laser irradiation. <i>Optics Letters</i> , 2010, 35, 2299.	3.3	8
76	Elemental redistribution behavior in tellurite glass induced by high repetition rate femtosecond laser irradiation. <i>Journal of Alloys and Compounds</i> , 2014, 601, 212-216.	5.5	7
77	Near-mid infrared emission in Ce ³⁺ and Tm ³⁺ co-doped oxyfluoride glasses by excited at different wavelengths light. <i>Journal of Non-Crystalline Solids</i> , 2014, 391, 49-53.	3.1	7
78	Anticounterfeiting Systems: Optical Nanomaterials and Enabling Technologies for High Security Level Anticounterfeiting (Adv. Mater. 18/2020). <i>Advanced Materials</i> , 2020, 32, 2070141.	21.0	6
79	Optical Property and Energy Transfer in the ZnO-LiYbO ₂ Hybrid Phosphors under the Indirect Near-UV Excitation. <i>Journal of the Electrochemical Society</i> , 2011, 159, H11-H15.	2.9	5
80	Mid-Infrared 2.86- μm Emission Characteristics in Highly Dy ³⁺ Doped Fluoroaluminate Glass. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 429-432.	2.5	4
81	Atomic deciphering of cation exchange mechanism in upconversion nanoparticles. <i>Journal of Luminescence</i> , 2020, 224, 117289.	3.1	3
82	Upconversion Luminescence Behavior of Single Nanoparticles. , 2016, , 311-331.		1
83	Recent Research Progress on Femtosecond Laser Induced Microstructures in Glasses. <i>International Journal of Optomechatronics</i> , 2012, 6, 179-187.	6.6	0
84	Topology-controlled Polarized Photoluminescence from Rare-earth Doped Nanocrystals. , 2021, , .		0