

Lu Liu

List of Publications by Year in descending order

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72
papers

2,506
citations

304368

22
h-index

205818

48
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73
all docs

73
docs citations

73
times ranked

3066
citing authors

#	ARTICLE	IF	CITATIONS
1	NIR-II nanoprobes in-vivo assembly to improve image-guided surgery for metastatic ovarian cancer. Nature Communications, 2018, 9, 2898.	5.8	343
2	Er ³⁺ Sensitized 1530 nm to 1180 nm Second Near-Infrared Window Upconversion Nanocrystals for In Vivo Biosensing. Angewandte Chemie - International Edition, 2018, 57, 7518-7522.	7.2	271
3	In Vivo High-resolution Ratiometric Fluorescence Imaging of Inflammation Using NIR-II Nanoprobes with 1550 nm Emission. Nano Letters, 2019, 19, 2418-2427.	4.5	202
4	Solvent-Assisted Self-Assembly of a Metal-Organic Framework Based Biocatalyst for Cascade Reaction Driven Photodynamic Therapy. Journal of the American Chemical Society, 2020, 142, 6822-6832.	6.6	201
5	Supramolecularly Engineered NIR-II and Upconversion Nanoparticles In Vivo Assembly and Disassembly to Improve Bioimaging. Advanced Materials, 2018, 30, e1804982.	11.1	146
6	Optical temperature sensor through infrared excited blue upconversion emission in Tm ³⁺ /Yb ³⁺ codoped Y ₂ O ₃ . Optics Communications, 2012, 285, 1925-1928.	1.0	140
7	Near-infrared rechargeable optical battery implant for irradiation-free photodynamic therapy. Biomaterials, 2018, 163, 154-162.	5.7	83
8	Size and charge dual-transformable mesoporous nanoassemblies for enhanced drug delivery and tumor penetration. Chemical Science, 2020, 11, 2819-2827.	3.7	66
9	Orthogonal Multiplexed Luminescence Encoding with Near-Infrared Rechargeable Upconverting Persistent Luminescence Composites. Advanced Optical Materials, 2017, 5, 1700680.	3.6	52
10	Elemental Migration in Core/Shell Structured Lanthanide Doped Nanoparticles. Chemistry of Materials, 2019, 31, 5608-5615.	3.2	49
11	Optical thermometry through green and red upconversion emissions in Er ³⁺ /Yb ³⁺ /Li ⁺ :ZrO ₂ nanocrystals. Optics Communications, 2011, 284, 1876-1879.	1.0	48
12	Effect of Li ⁺ ions on enhancement of near-infrared upconversion emission in Y ₂ O ₃ :Tm ³⁺ /Yb ³⁺ nanocrystals. Journal of Applied Physics, 2012, 112, .	1.1	47
13	Er ³⁺ Sensitized 1530 nm to 1180 nm Second Near-Infrared Window Upconversion Nanocrystals for In Vivo Biosensing. Angewandte Chemie, 2018, 130, 7640-7644.	1.6	41
14	Localized surface plasmon resonance sensing structure based on gold nanohole array on beveled fiber edge. Nanotechnology, 2017, 28, 435504.	1.3	33
15	Highly sensitive and accurate optical thermometer through Er doped tellurite glasses. Materials Research Bulletin, 2018, 105, 306-311.	2.7	31
16	Precisely Designed Mesoscopic Titania for High-Volumetric-Density Pseudocapacitance. Journal of the American Chemical Society, 2021, 143, 14097-14105.	6.6	30
17	The distribution of rare earth ions in a Ga_2O_3 nanocrystal-silicate glass composite and its influence on the photoluminescence properties. Journal of Materials Chemistry C, 2018, 6, 2944-2950.	2.7	29
18	Sub-10 nm NaNd ₄ Nanoparticles as Near-Infrared Photothermal Probes with Self-Temperature Feedback. ACS Applied Nano Materials, 2020, 3, 2517-2526.	2.4	29

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19	Power dependence of upconversion luminescence of Er ³⁺ doped Yttria nanocrystals and their bulk counterpart. <i>Journal of Luminescence</i> , 2013, 143, 423-431.	1.5	26
20	Upconversion mechanisms of Er ³⁺ :NaYF ₄ and thermal effects induced by incident photon on the green luminescence. <i>Journal of Luminescence</i> , 2016, 175, 35-43.	1.5	25
21	Temperature-Independent Lifetime and Thermometer Operated in a Biological Window of Upconverting NaErF ₄ Nanocrystals. <i>Nanomaterials</i> , 2020, 10, 24.	1.9	25
22	Intermacromolecular complexation due to specific interactions. 7. Miscibility and complexation between poly(styrene-co-4-vinyl benzoic acid) and poly[n-butyl methacrylate-co-(4-vinylpyridine)]. <i>Journal of Macromolecular Science - Physics</i> , 1998, 37, 827-839.	0.4	23
23	Concentration effects on the FIR technique for temperature sensing. <i>Optical Materials</i> , 2015, 43, 18-24.	1.7	23
24	Intermacromolecular complexation due to specific interactions. 6. Miscibility and complexation between Poly{Styrene-co-[p-(2-Hydroxypropan-2-yl)Styrene]} and poly[n-butyl Methacrylate-co-(4-vinylpyridine)]. <i>Journal of Macromolecular Science - Physics</i> , 1998, 37, 805-826.	0.4	22
25	Novel optical thermometer through upconversion emission of Ho ³⁺ sensitized by Nd ³⁺ . <i>Journal of Luminescence</i> , 2019, 213, 40-45.	1.5	22
26	Effects of alkali metal ions on upconversion photoluminescence intensity of Er ³⁺ -doped Y ₂ O ₃ nanocrystals. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 111-115.	1.1	21
27	Highly stable CsPbBr ₃ perovskite quantum dot-doped tellurite glass nanocomposite scintillator. <i>Optics Letters</i> , 2021, 46, 3448.	1.7	21
28	Optical fiber sensor based on upconversion nanoparticles for internal temperature monitoring of Li-ion batteries. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14757-14765.	2.7	20
29	Improved optical thermometry in Er ³⁺ :Y ₂ O ₃ nanocrystals by re-calcination. <i>Optics Communications</i> , 2013, 309, 90-94.	1.0	19
30	Topological Engineering of Photoluminescence Properties of Bismuth- or Erbium-Doped Phosphosilicate Glass of Arbitrary P ₂ O ₅ to SiO ₂ Ratio. <i>Advanced Optical Materials</i> , 2018, 6, 1800024.	3.6	19
31	Highly efficient upconversion luminescence of Er heavily doped nanocrystals through 1530 nm excitation. <i>Optics Letters</i> , 2019, 44, 711.	1.7	19
32	Efficient two-color luminescence of Er ³⁺ /Yb ³⁺ /Li ⁺ :ZrO ₂ nanocrystals. <i>Optical Materials</i> , 2011, 33, 1234-1238.	1.7	18
33	Concentration dependent optical transition probabilities in ultra-small upconversion nanocrystals. <i>Optics Express</i> , 2018, 26, 23471.	1.7	18
34	Facile preparation of upconversion microfibers for efficient luminescence and distributed temperature measurement. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7984-7992.	2.7	18
35	Efficient green upconversion luminescence in highly crystallized ultratransparent nano-glass ceramics containing isotropic KY ₃ F ₁₀ nanocrystals. <i>Optics Letters</i> , 2019, 44, 4674.	1.7	18
36	Modified FIR thermometry for surface temperature sensing by using high power laser. <i>Optics Express</i> , 2017, 25, 848.	1.7	16

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37	Effects of melting temperature and composition on spectroscopic properties of Er ³⁺ -doped bismuth glasses. <i>Optical Materials Express</i> , 2016, 6, 279.	1.6	15
38	Efficient nanoheater operated in a biological window for photo-hyperthermia therapy. <i>Biomedical Optics Express</i> , 2019, 10, 1935.	1.5	15
39	Optimized tellurite glasses containing CsPbBr ₃ -quantum dots for white-light emitting diodes. <i>Journal of Non-Crystalline Solids</i> , 2022, 581, 121429.	1.5	14
40	Upconversion mechanisms and thermal effects of Er ³⁺ in Er ³⁺ doped yttria nanocrystals. <i>Journal of Luminescence</i> , 2012, 132, 1483-1488.	1.5	13
41	Upconversion thermometer through novel PMMA fiber containing nanocrystals. <i>Optical Materials Express</i> , 2018, 8, 2321.	1.6	13
42	Atomic Mechanism of Interfacial-Controlled Quantum Efficiency and Charge Migration in InAs/GaSb Superlattice. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26642-26647.	4.0	12
43	Intense and color-tunable upconversion through 980 and 1530 nm excitations. <i>Journal of Luminescence</i> , 2020, 224, 117306.	1.5	12
44	Ultrabright single-band red upconversion luminescence in highly transparent fluorosilicate glass ceramics containing KMnF ₃ perovskite nanocrystals. <i>Optics Letters</i> , 2019, 44, 2959.	1.7	12
45	Enhanced red upconversion emission of Er ³⁺ -doped ZnO by post-annealing. <i>Journal of Luminescence</i> , 2017, 192, 668-674.	1.5	11
46	Self-monitored biological nanoheaters operating in the first biological window based on single-band red upconversion nanoparticles fabricated through architectural design. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155602.	2.8	11
47	Effects of Li ⁺ on structure and spectroscopic properties of Er ³⁺ /Li ⁺ codoped Sb ₂ O ₃ -Na ₂ O-SiO ₂ glasses. <i>Journal of Applied Physics</i> , 2010, 107, 093103.	1.1	10
48	Phase transformation of ZrO ₂ nanocrystals induced by Li ⁺ . <i>Materials Letters</i> , 2012, 79, 75-77.	1.3	10
49	Single band upconversion mechanisms of Er ³⁺ /Yb ³⁺ :ZrO ₂ nanocrystals. <i>Optics Communications</i> , 2012, 285, 1528-1532.	1.0	10
50	Synthesis of monodisperse hydroxyl-containing polystyrene via chemical modification. <i>Macromolecular Rapid Communications</i> , 1996, 17, 37-42.	2.0	9
51	Dispersing upconversion nanocrystals in PMMA microfiber: a novel methodology for temperature sensing. <i>RSC Advances</i> , 2018, 8, 19362-19368.	1.7	9
52	Functionalised liquid crystal microfibers for hydrogen peroxide and catalase detection using whispering gallery mode. <i>Liquid Crystals</i> , 2020, 47, 1708-1717.	0.9	9
53	800 nm laser induced white light upconversion of Nd/Yb/Pr triply doped NaYF ₄ through a dual-sensitization strategy. <i>Materials Research Bulletin</i> , 2021, 133, 111027.	2.7	9
54	A new role of Yb ³⁺ as an energy reservoir for lanthanide upconversion luminescence. <i>Nanoscale</i> , 2021, 13, 9978-9988.	2.8	9

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55	Unipolar nonvolatile memory devices based on the composites of poly(9-vinylcarbazole) and zinc oxide nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11749-11754.	1.1	8
56	Upconversion enhancement through a facile, ultrafast, and low-threshold laser annealing strategy. <i>Nanotechnology</i> , 2019, 30, 435703.	1.3	8
57	Macromolecular aggregation: Complexation due to hydrogen bonding and hydrophobic association. <i>Macromolecular Symposia</i> , 1997, 124, 135-146.	0.4	7
58	Mechanisms of Upconversion Luminescence of Er ³⁺ -Doped NaYF ₄ via 980 and 1530 nm Excitation. <i>Nanomaterials</i> , 2021, 11, 2767.	1.9	7
59	Nanoheater-tuned whispering gallery mode lasing in liquid-filled hollow microcavities. <i>Optics Letters</i> , 2020, 45, 815.	1.7	7
60	Significant Fluorescence Enhancement through Rapid Laser Annealing and Nonthermal Coupling Optical Temperature Sensing of Er-Doped Yttria Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3830-3838.	1.5	7
61	Preparation and upconversion properties of rare earth doped core-shell Y(OH) ₃ and ¹²⁵ NaYF ₄ hybrid nanorods. <i>Materials Research Bulletin</i> , 2018, 101, 61-66.	2.7	6
62	Enlarged memory margins for resistive switching devices based on polyurethane film due to embedded Ag nanoparticles. <i>Solid-State Electronics</i> , 2018, 147, 6-12.	0.8	6
63	Photothermal control of whispering gallery mode lasing in polymer-coated silica microcavity using high-efficiency nanoheater. <i>Journal of Materials Science</i> , 2021, 56, 570-580.	1.7	6
64	Suppression of energy transfer from Er ³⁺ to OH ⁻ in Er ³⁺ highly doped zirconia. <i>Optics Communications</i> , 2013, 287, 228-233.	1.0	5
65	Compact all-fiber thermo-optic modulator based on a Michelson interferometer coated with NaNdF ₄ nanoparticles. <i>Optics Express</i> , 2021, 29, 6854.	1.7	5
66	Color tuning in a compact core-shell nanocrystal based on intense and high-purity green and red photon upconversion. <i>Optics Letters</i> , 2021, 46, 900.	1.7	5
67	Correlation between ultrabroadband near-infrared emission and Yb ³⁺ /Ni ²⁺ dopants distribution in highly transparent germanate glass-ceramics containing zinc gallogermanate nanospinel. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1619-1627.	1.9	4
68	Phase transformation and controllable size of ¹³⁵ Al ₂ O ₃ nanocrystals through Li doping using sol-gel method. <i>Phase Transitions</i> , 2018, 91, 1129-1134.	0.6	3
69	Tm ³⁺ heavily doped NIR-III bioprobe with 1 μ m Stokes shift towards deep-tissue applications. <i>Optics Express</i> , 2021, 29, 42674.	1.7	3
70	Effects of inert shell on the upconversion intensity and color of Na(Er/Yb)F ₄ nanocrystals. <i>AIP Advances</i> , 2021, 11, 105312.	0.6	1
71	Dual-excitation regulated Tm ³⁺ upconverting luminescence towards novel encrypted information transmission. <i>Optical Materials</i> , 2022, 127, 112258.	1.7	1
72	Suppression of inner energy dissipation in Yb-doped NaErF ₄ upconversion nanocrystals through an energy cycling strategy. <i>Journal of Rare Earths</i> , 2022, , .	2.5	0