

# Wei Feng

## List of Publications by Year in descending order

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101  
papers

13,244  
citations

43973

48  
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104  
docs citations

104  
times ranked

12696  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescent Chemodosimeters for Bioimaging. <i>Chemical Reviews</i> , 2013, 113, 192-270.	23.0	2,049
2	Upconversion Luminescent Materials: Advances and Applications. <i>Chemical Reviews</i> , 2015, 115, 395-465.	23.0	1,815
3	Sub-10 nm Hexagonal Lanthanide-Doped NaLuF <sub>4</sub> Upconversion Nanocrystals for Sensitive Bioimaging in Vivo. <i>Journal of the American Chemical Society</i> , 2011, 133, 17122-17125.	6.6	768
4	Temperature-feedback upconversion nanocomposite for accurate photothermal therapy at facile temperature. <i>Nature Communications</i> , 2016, 7, 10437.	5.8	750
5	Ultrasensitive Near-Infrared Fluorescence-Enhanced Probe for <i>in Vivo</i> Nitroreductase Imaging. <i>Journal of the American Chemical Society</i> , 2015, 137, 6407-6416.	6.6	408
6	Blue-Emissive Upconversion Nanoparticles for Low-Power-Excited Bioimaging in Vivo. <i>Journal of the American Chemical Society</i> , 2012, 134, 5390-5397.	6.6	390
7	Anti-Stokes shift luminescent materials for bio-applications. <i>Chemical Society Reviews</i> , 2017, 46, 1025-1039.	18.7	385
8	A Cyanine-Modified Nanosystem for <i>in Vivo</i> Upconversion Luminescence Bioimaging of Methylmercury. <i>Journal of the American Chemical Society</i> , 2013, 135, 9869-9876.	6.6	279
9	Core-shell Fe <sub>3</sub> O <sub>4</sub> @NaLuF <sub>4</sub> :Yb,Er/Tm nanostructure for MRI, CT and upconversion luminescence tri-modality imaging. <i>Biomaterials</i> , 2012, 33, 4618-4627.	5.7	271
10	The biosafety of lanthanide upconversion nanomaterials. <i>Chemical Society Reviews</i> , 2015, 44, 1509-1525.	18.7	262
11	Upconversion luminescence imaging of cells and small animals. <i>Nature Protocols</i> , 2013, 8, 2033-2044.	5.5	253
12	Gd <sup>3+</sup> complex-modified NaLuF <sub>4</sub> -based upconversion nanophosphors for trimodality imaging of NIR-to-NIR upconversion luminescence, X-Ray computed tomography and magnetic resonance. <i>Biomaterials</i> , 2012, 33, 5394-5405.	5.7	251
13	Versatile Spectral and Lifetime Multiplexing Nanoplatfrom with Excitation Orthogonalized Upconversion Luminescence. <i>ACS Nano</i> , 2017, 11, 3289-3297.	7.3	237
14	Resonance Energy Transfer in Upconversion Nanoplatfroms for Selective Biodetection. <i>Accounts of Chemical Research</i> , 2017, 50, 32-40.	7.6	213
15	Ratiometric upconversion nanothermometry with dual emission at the same wavelength decoded via a time-resolved technique. <i>Nature Communications</i> , 2020, 11, 4.	5.8	205
16	Upconversion nanocomposite for programming combination cancer therapy by precise control of microscopic temperature. <i>Nature Communications</i> , 2018, 9, 2176.	5.8	203
17	Upconversion Nanophosphor-Based Functional Nanocomposites. <i>Advanced Materials</i> , 2013, 25, 5287-5303.	11.1	202
18	Rare-Earth Nanoparticles with Enhanced Upconversion Emission and Suppressed Rare-Earth Ion Leakage. <i>Chemistry - A European Journal</i> , 2012, 18, 5558-5564.	1.7	195

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19	Ratiometric nanothermometer in vivo based on triplet-sensitized upconversion. <i>Nature Communications</i> , 2018, 9, 2698.	5.8	194
20	Mitochondria-Targeted Near-Infrared Fluorescent Off-On Probe for Selective Detection of Cysteine in Living Cells and <i>in Vivo</i> . <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27968-27975.	4.0	189
21	High-sensitivity imaging of time-domain near-infrared light transducer. <i>Nature Photonics</i> , 2019, 13, 525-531.	15.6	166
22	Cationic Polyfluorenes with Phosphorescent Iridium(III) Complexes for Time-Resolved Luminescent Biosensing and Fluorescence Lifetime Imaging. <i>Advanced Functional Materials</i> , 2013, 23, 3268-3276.	7.8	165
23	Hydrothermal synthesis of NaLuF <sub>4</sub> :153Sm,Yb,Tm nanoparticles and their application in dual-modality upconversion luminescence and SPECT bioimaging. <i>Biomaterials</i> , 2013, 34, 774-783.	5.7	159
24	Iridium-Complex-Modified Upconversion Nanophosphors for Effective LRET Detection of Cyanide Anions in Pure Water. <i>Advanced Functional Materials</i> , 2012, 22, 2667-2672.	7.8	157
25	Mussel-Inspired Polydopamine-Coated Lanthanide Nanoparticles for NIR-II/CT Dual Imaging and Photothermal Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26674-26683.	4.0	118
26	Near-Infrared Upconversion Chemodosimeter for In Vivo Detection of Cu <sup>2+</sup> in Wilson Disease. <i>Advanced Materials</i> , 2016, 28, 6625-6630.	11.1	115
27	Polyphosphoric acid capping radioactive/upconverting NaLuF <sub>4</sub> :Yb,Tm,153Sm nanoparticles for blood pool imaging <i>in vivo</i> . <i>Biomaterials</i> , 2013, 34, 9535-9544.	5.7	99
28	Optimization of Prussian Blue Coated NaDyF <sub>4</sub> :x%Lu Nanocomposites for Multifunctional Imaging-Guided Photothermal Therapy. <i>Advanced Functional Materials</i> , 2016, 26, 5120-5130.	7.8	98
29	Biodistribution of sub-10-nm PEG-modified radioactive/upconversion nanoparticles. <i>Biomaterials</i> , 2013, 34, 7127-7134.	5.7	95
30	High-Contrast Visualization of Upconversion Luminescence in Mice Using Time-Gating Approach. <i>Analytical Chemistry</i> , 2016, 88, 3449-3454.	3.2	88
31	Revisiting the optimized doping ratio in core/shell nanostructured upconversion particles. <i>Nanoscale</i> , 2017, 9, 1964-1971.	2.8	87
32	Yolk-Shell Upconversion Nanocomposites for LRET Sensing of Cysteine/Homocysteine. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11190-11197.	4.0	86
33	Nd <sup>3+</sup> -doped LiYF <sub>4</sub> nanocrystals for bio-imaging in the second near-infrared window. <i>Journal of Materials Chemistry B</i> , 2016, 4, 87-95.	2.9	83
34	An Nd <sup>3+</sup> -sensitized upconversion nanophosphor modified with a cyanine dye for the ratiometric upconversion luminescence bioimaging of hypochlorite. <i>Nanoscale</i> , 2015, 7, 4105-4113.	2.8	79
35	Recent advances in the optimization and functionalization of upconversion nanomaterials for in vivo bioapplications. <i>NPG Asia Materials</i> , 2013, 5, e75-e75.	3.8	75
36	Nd <sup>3+</sup> -Sensitized Upconversion Nanostructure as a Dual-Channel Emitting Optical Probe for Near Infrared-to-Near Infrared Fingerprint Imaging. <i>Inorganic Chemistry</i> , 2016, 55, 10278-10283.	1.9	75

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37	Fluorescence lifetime imaging of upper gastrointestinal pH <i>in vivo</i> with a lanthanide based near-infrared probe. <i>Chemical Science</i> , 2019, 10, 4227-4235.	3.7	72
38	Upconversion nanoparticles dramatically promote plant growth without toxicity. <i>Nano Research</i> , 2012, 5, 770-782.	5.8	68
39	A water-dispersible dye-sensitized upconversion nanocomposite modified with phosphatidylcholine for lymphatic imaging. <i>Chemical Communications</i> , 2016, 52, 13389-13392.	2.2	67
40	Energy Transfer Highway in Nd <sup>3+</sup> -Sensitized Nanoparticles for Efficient near-Infrared Bioimaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18540-18548.	4.0	65
41	A mitochondrial-targeted ratiometric probe for detecting intracellular H <sub>2</sub> S with high photostability. <i>Chinese Chemical Letters</i> , 2021, 32, 1799-1802.	4.8	65
42	Cyclometallated ruthenium complex-modified upconversion nanophosphors for selective detection of Hg <sup>2+</sup> ions in water. <i>Nanoscale</i> , 2014, 6, 1020-1028.	2.8	62
43	Near-infrared <i>in vivo</i> bioimaging using a molecular upconversion probe. <i>Chemical Communications</i> , 2016, 52, 7466-7469.	2.2	61
44	Dual Near-Infrared-Emissive Luminescent Nanoprobes for Ratiometric Luminescent Monitoring of ClO <sup>-</sup> in Living Organisms. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15298-15305.	4.0	59
45	Hybrid Nanoclusters for Near-Infrared to Near-Infrared Upconverted Persistent Luminescence Bioimaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32583-32590.	4.0	58
46	Ratiometric Monitoring of Intracellular Drug Release by an Upconversion Drug Delivery Nanosystem. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12278-12286.	4.0	57
47	Biodegradable Inorganic Upconversion Nanocrystals for <i>In Vivo</i> Applications. <i>ACS Nano</i> , 2020, 14, 16672-16680.	7.3	55
48	Visible-light-excited and europium-emissive nanoparticles for highly-luminescent bioimaging <i>in vivo</i> . <i>Biomaterials</i> , 2014, 35, 5830-5839.	5.7	53
49	Dye-sensitized upconversion nanocomposites for ratiometric semi-quantitative detection of hypochlorite <i>in vivo</i> . <i>Nanoscale</i> , 2019, 11, 2959-2965.	2.8	52
50	Near-Infrared Lanthanide-Doped Nanoparticles for a Low Interference Lateral Flow Immunoassay Test. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4358-4365.	4.0	51
51	Easy-to-Use Colorimetric Cyanine Probe for the Detection of Cu <sup>2+</sup> in Wilson's Disease. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20377-20386.	4.0	50
52	Development of Polyene-Bridged Hybrid Rhodamine Fluorophores for High-Resolution NIR-II Imaging. , 2019, 1, 418-424.		50
53	Dye-Assembled Upconversion Nanocomposite for Luminescence Ratiometric <i>In Vivo</i> Bioimaging of Copper Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 430-436.	4.0	50
54	An NIR-II Photothermally Triggered "Oxygen Bomb" for Hypoxic Tumor Programmed Cascade Therapy. <i>Advanced Materials</i> , 2022, 34, .	11.1	48

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55	Highly Enhanced Cooperative Upconversion Luminescence through Energy Transfer Optimization and Quenching Protection. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17894-17901.	4.0	46
56	Lanthanide-based nanocrystals as dual-modal probes for SPECT and X-ray CT imaging. <i>Biomaterials</i> , 2014, 35, 4699-4705.	5.7	45
57	In vivo biodistribution and toxicity assessment of triplet-triplet annihilation-based upconversion nanocapsules. <i>Biomaterials</i> , 2017, 112, 10-19.	5.7	44
58	Near-Infrared Upconversion Luminescence and Bioimaging In Vivo Based on Quantum Dots. <i>Advanced Science</i> , 2019, 6, 1801834.	5.6	42
59	Lanthanide-Doped Nanoparticles with Upconversion and Downshifting Near-Infrared Luminescence for Bioimaging. <i>Inorganic Chemistry</i> , 2019, 58, 9351-9357.	1.9	41
60	Ultrabright NIR-II Emissive Polymer Dots for Metastatic Ovarian Cancer Detection. <i>Advanced Science</i> , 2021, 8, 2000441.	5.6	39
61	Luminescence Lifetime-Based In Vivo Detection with Responsive Rare Earth-Dye Nanocomposite. <i>Small</i> , 2019, 15, e1904487.	5.2	37
62	Ln <sup>3+</sup> -doped nanoparticles with enhanced NIR-II luminescence for lighting up blood vessels in mice. <i>Nanoscale</i> , 2020, 12, 8248-8254.	2.8	37
63	Customized Photothermal Therapy of Subcutaneous Orthotopic Cancer by Multichannel Luminescent Nanocomposites. <i>Advanced Materials</i> , 2021, 33, e2008615.	11.1	36
64	Synthesis of NaYF <sub>4</sub> :Nd@NaLuF <sub>4</sub> @SiO <sub>2</sub> @PS colloids for fluorescence imaging in the second biological window. <i>Journal of Rare Earths</i> , 2018, 36, 113-118.	2.5	32
65	Point-of-care Ratiometric Fluorescence Imaging of Tissue for the Diagnosis of Ovarian Cancer. <i>Theranostics</i> , 2019, 9, 4597-4607.	4.6	32
66	Eu <sup>2+</sup> /Eu <sup>3+</sup> -Based Smart Duplicate Responsive Stimuli and Time-gated Nanohybrid for Optical Recording and Encryption. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1247-1253.	4.0	27
67	An efficient dye-sensitized NIR emissive lanthanide nanomaterial and its application in fluorescence-guided peritumoral lymph node dissection. <i>Nanoscale</i> , 2018, 10, 12573-12581.	2.8	26
68	Engineering of monodisperse core-shell up-conversion dendritic mesoporous silica nanocomposites with a tunable pore size. <i>Nanoscale</i> , 2020, 12, 5075-5083.	2.8	25
69	Time-Gated Ratiometric Detection with the Same Working Wavelength To Minimize the Interferences from Photon Attenuation for Accurate <i>in Vivo</i> Detection. <i>ACS Central Science</i> , 2019, 5, 299-307.	5.3	24
70	Intraperitoneal Administration of Biointerface-Camouflaged Upconversion Nanoparticles for Contrast Enhanced Imaging of Pancreatic Cancer. <i>Advanced Functional Materials</i> , 2016, 26, 8631-8642.	7.8	23
71	Highly efficient BODIPY-doped upconversion nanoparticles for deep-red luminescence bioimaging <i>in vivo</i> . <i>Chemical Communications</i> , 2021, 57, 1518-1521.	2.2	23
72	Measurement of Temperature Distribution at the Nanoscale with Luminescent Probes Based on Lanthanide Nanoparticles and Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52393-52401.	4.0	21

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73	Luminescence interference-free lifetime nanothermometry pinpoints in vivo temperature. <i>Science China Chemistry</i> , 2021, 64, 974-984.	4.2	21
74	Enhanced Blue Afterglow through Molecular Fusion for Bioapplications. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	21
75	Quantitative Mapping of Liver Hypoxia in Living Mice Using Time-Resolved Wide-Field Phosphorescence Lifetime Imaging. <i>Advanced Science</i> , 2020, 7, 1902929.	5.6	20
76	Significantly Enhanced Afterglow Brightness via Intramolecular Energy Transfer. , 2021, 3, 713-720.		20
77	Influence on the Apparent Luminescent Lifetime of Rare-Earth Upconversion Nanoparticles by Quenching the Sensitizer's Excited State for Hypochlorous Acid Detection and Bioimaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14004-14011.	4.0	20
78	Engineering single-molecule fluorescence with asymmetric nano-antennas. <i>Light: Science and Applications</i> , 2021, 10, 79.	7.7	18
79	Er-Based Luminescent Nanothermometer to Explore the Real-Time Temperature of Cells under External Stimuli. <i>Small</i> , 2022, 18, e2107963.	5.2	15
80	Intra-arterial infusion of PEGylated upconversion nanophosphors to improve the initial uptake by tumors in vivo. <i>RSC Advances</i> , 2014, 4, 23580.	1.7	14
81	In vivo biodistribution and passive accumulation of upconversion nanoparticles in colorectal cancer models via intraperitoneal injection. <i>RSC Advances</i> , 2017, 7, 31588-31596.	1.7	13
82	Tuning the Upconversion Efficiency and Spectrum of Upconversion Nanoparticles through Surface Decorating of an Organic Dye. <i>Inorganic Chemistry</i> , 2019, 58, 14490-14497.	1.9	13
83	A mitochondrion-targeting fluorescent probe for hypochlorite anion in living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118564.	2.0	13
84	Reversible Ratiometric Probe Combined with the Time-Gated Method for Accurate <i>In Vivo</i> Gastrointestinal pH Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25557-25564.	4.0	13
85	Wide-Range Time-Dependent Color-Tunable Light-Response Afterglow Materials <i>via</i> Absorption Compensation for Advanced Information Encryption. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11681-11689.	4.0	13
86	NIR-II emitting rare-earth nanoparticles for a lateral flow immunoassay in hemolysis. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130380.	4.0	12
87	Amphiphilic PEGylated Lanthanide-Doped Upconversion Nanoparticles for Significantly Passive Accumulation in the Peritoneal Metastatic Carcinomatosis Models Following Intraperitoneal Administration. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2176-2184.	2.6	11
88	Gonadotropin-Releasing Hormone Receptor-Targeted Near-Infrared Fluorescence Probe for Specific Recognition and Localization of Peritoneal Metastases of Ovarian Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 266.	1.3	11
89	Time-resolved oxygen & light indicating via photooxidation mediated up-conversion. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9986-9992.	2.7	10
90	Enhanced Peroxidase-Mimicking Activity of Plasmonic Gold-Modified Mn <sub>3</sub> O <sub>4</sub> Nanocomposites through Photoexcited Hot Electron Transfer. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1603-1607.	1.7	10

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91	Chemodosimeter functionalized magnetic silica yolk-shell nanocomposite for sensing and removal of Hg <sup>2+</sup> . RSC Advances, 2014, 4, 20252.	1.7	8
92	Quantum Yield Measurements of Photochemical Reaction-Based Afterglow Luminescence Materials. Journal of Physical Chemistry Letters, 2021, 12, 9455-9462.	2.1	8
93	Coumarin-based fluorescent probes toward viscosity in mitochondrion/lysosome. Analytical Biochemistry, 2022, 652, 114752.	1.1	8
94	Yb-Based Nanoparticles with the Same Excitation and Emission Wavelength for Sensitive in Vivo Biodetection. Analytical Chemistry, 2020, 92, 2027-2033.	3.2	7
95	Enhanced Blue Afterglow through Molecular Fusion for Bio-applications. Angewandte Chemie, 2022, 134, .	1.6	7
96	Monitoring energy distribution of nonradiative energy transfer and reabsorption process in an upconversion nanoparticle detection system. Journal of Luminescence, 2019, 210, 175-181.	1.5	6
97	Afterglow Implant for Arterial Embolization and Intraoperative Imaging. Chemistry - A European Journal, 2022, 28, .	1.7	6
98	Steric hindrance boosted upconversion for low-power imaging in vivo. Journal of Luminescence, 2020, 218, 116837.	1.5	5
99	A facile strategy for the synthesis of a NaREF <sub>4</sub> -gold nanocomposite as a dual-modal bioimaging agent. RSC Advances, 2017, 7, 21625-21629.	1.7	4
100	Self-Assembly of Heterogeneous Structured Rare-Earth Nanocrystals Controlled by Selective Crystal Etching and Growth for Optical Encoding. ACS Applied Nano Materials, 2019, 2, 3518-3525.	2.4	3
101	Biosensing and Bioimaging: Cationic Polyfluorenes with Phosphorescent Iridium(III) Complexes for Time-Resolved Luminescent Biosensing and Fluorescence Lifetime Imaging (Adv. Funct. Mater. 26/2013). Advanced Functional Materials, 2013, 23, 3250-3250.	7.8	2