Ling Huang

List of Publications by Citations

203	10,421	57	95
papers	citations	h-index	g-index
212	11,992	10.6	6.37
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
203	In vitro and in vivo uncaging and bioluminescence imaging by using photocaged upconversion nanoparticles. *Angewandte Chemie - International Edition*, **2012**, 51, 3125-9	16.4	398
202	Nanotube electronics: large-scale assembly of carbon nanotubes. *Nature*, **2003**, 425, 36-7	50.4	398
201	On-wire lithography. *Science*, **2005**, 309, 113-5	33.3	346
200	Amine-functionalized zirconium metal-organic framework as efficient visible-light photocatalyst for aerobic organic transformations. *Chemical Communications*, **2012**, 48, 11656-8	5.8	328
199	Direct Aqueous-Phase Synthesis of Sub-10 nm "Luminous Pearls" with Enhanced in Vivo Renewable Near-Infrared Persistent Luminescence. *Journal of the American Chemical Society*, **2015**, 137, 5304-7	16.4	296
198	Lanthanide-doped Na(x)ScF(3+x) nanocrystals: crystal structure evolution and multicolor tuning. *Journal of the American Chemical Society*, **2012**, 134, 8340-3	16.4	286
197	Recent developments in lanthanide-based luminescent probes. *Coordination Chemistry Reviews*, **2014**, 273-274, 201-212	23.2	224
196	Ultralow-Power Near Infrared Lamp Light Operable Targeted Organic Nanoparticle Photodynamic Therapy. *Journal of the American Chemical Society*, **2016**, 138, 14586-14591	16.4	211
195	Binary temporal upconversion codes of Mn-activated nanoparticles for multilevel anti-counterfeiting. *Nature Communications*, **2017**, 8, 899	17.4	202
194	Confining Excitation Energy in Er -Sensitized Upconversion Nanocrystals through Tm -Mediated Transient Energy Trapping. *Angewandte Chemie - International Edition*, **2017**, 56, 7605-7609	16.4	188
193	Enhancing Ultralong Organic Phosphorescence by Effective Type Halogen Bonding. *Advanced Functional Materials*, **2018**, 28, 1705045	15.6	180
192	Probing the nature of upconversion nanocrystals: instrumentation matters. *Chemical Society Reviews*, **2015**, 44, 1479-508	58.5	161
191	Transition metal complexes with strong absorption of visible light and long-lived triplet excited states: from molecular design to applications. *RSC Advances*, **2012**, 2, 1712-1728	3.7	160
190	Gold and Hairpin DNA Functionalization of Upconversion Nanocrystals for Imaging and In Vivo Drug Delivery. *Advanced Materials*, **2017**, 29, 1700244	24	159
189	Cross Relaxation Induced Pure Red Upconversion in Activator- and Sensitizer-Rich Lanthanide Nanoparticles. *Chemistry of Materials*, **2014**, 26, 5183-5186	9.6	158
188	Few-Layer Graphdiyne Nanosheets Applied for Multiplexed Real-Time DNA Detection. *Advanced Materials*, **2017**, 29, 1606755	24	153
187	Gold-plasmon enhanced solar-to-hydrogen conversion on the {001} facets of anatase TiO2 nanosheets. *Energy and Environmental Science*, **2014**, 7, 973	35.4	146

186	Bodipy derivatives as organic triplet photosensitizers for aerobic photoorganocatalytic oxidative coupling of amines and photooxidation of dihydroxylnaphthalenes. *Journal of Organic Chemistry*, **2013**, 78, 5627-37	4.2	146
185	Styryl Bodipy-C60 dyads as efficient heavy-atom-free organic triplet photosensitizers. *Organic Letters*, **2012**, 14, 2594-7	6.2	142
184	Carbon-Based Sorbents with Three-Dimensional Architectures for Water Remediation. *Small*, **2015**, 11, 3319-36	11	136
183	Mammalian Near-Infrared Image Vision through Injectable and Self-Powered Retinal Nanoantennae. *Cell*, **2019**, 177, 243-255.e15	56.2	133
182	Polypyrrole nanotube film for flexible thermoelectric application. *Synthetic Metals*, **2014**, 196, 173-177	3.6	132
181	Inherently Eu /Eu Codoped Sc O Nanoparticles as High-Performance Nanothermometers. *Advanced Materials*, **2018**, 30, e1705256	24	129
180	Bi2MoO6 nanobelts for crystal facet-enhanced photocatalysis. *Small*, **2014**, 10, 2791-5, 2741	11	123
179	Rational design and synthesis of catalytically driven nanorotors. *Journal of the American Chemical Society*, **2007**, 129, 14870-1	16.4	123
178	Enhancing Photodynamic Therapy through Resonance Energy Transfer Constructed Near-Infrared Photosensitized Nanoparticles. *Advanced Materials*, **2017**, 29, 1604789	24	117
177	Crystal structure and phototransistor behavior of N-substituted heptacence. *ACS Applied Materials & Interfaces*, **2012**, 4, 1883-6	9.5	109
176	Sub-100 nm, centimeter-scale, parallel dip-pen nanolithography. *Small*, **2005**, 1, 940-5	11	109
175	Rhodamine-modified upconversion nanophosphors for ratiometric detection of hypochlorous acid in aqueous solution and living cells. *Small*, **2014**, 10, 3560-7	11	102
174	Au nanorod decoration on NaYF Yb/Tm nanoparticles for enhanced emission and wavelength-dependent biomolecular sensing. *ACS Applied Materials & Interfaces*, **2013**, 5, 3508-13	9.5	95
173	Microporous Luminescent Metal-Organic Framework for a Sensitive and Selective Fluorescence Sensing of Toxic Mycotoxin in Moldy Sugarcane. *ACS Applied Materials & Interfaces*, **2018**, 10, 5618-5625	9.5	94
172	Iodo-Bodipys as visible-light-absorbing dual-functional photoredox catalysts for preparation of highly functionalized organic compounds by formation of C bonds via reductive and oxidative quenching catalytic mechanisms. *RSC Advances*, **2013**, 3, 23377	3.7	90
171	Synthesis, characterization, self-assembly, and physical properties of 11-methylbenzo[d]pyreno[4,5-b]furan. *Organic Letters*, **2011**, 13, 3004-7	6.2	87
170	Expanding Anti-Stokes Shifting in Triplet-Triplet Annihilation Upconversion for In Vivo Anticancer Prodrug Activation. *Angewandte Chemie - International Edition*, **2017**, 56, 14400-14404	16.4	86
169	C(60)-Bodipy dyad triplet photosensitizers as organic photocatalysts for photocatalytic tandem oxidation/[3+2] cycloaddition reactions to prepare pyrrolo[2,1-a]isoquinoline. *Chemical Communications*, **2013**, 49, 3751-3	5.8	83

168	Highly Water-Stable Lanthanide-Oxalate MOFs with Remarkable Proton Conductivity and Tunable Luminescence. *Advanced Materials*, **2017**, 29, 1701804	24	81
167	Er3+ Sensitized Photon Upconversion Nanocrystals. *Advanced Functional Materials*, **2018**, 28, 1800208	15.6	75
166	Nanocomposites of graphene oxide and upconversion rare-earth nanocrystals with superior optical limiting performance. *Small*, **2012**, 8, 2271-6	11	75
165	Inorganic-organic hybrid nanoprobe for NIR-excited imaging of hydrogen sulfide in cell cultures and inflammation in a mouse model. *Small*, **2014**, 10, 4874-85	11	72
164	Chemically functionalized surface patterning. *Small*, **2011**, 7, 2273-89	11	72
163	Matrix-assisted dip-pen nanolithography and polymer pen lithography. *Small*, **2010**, 6, 1077-81	11	71
162	Unraveling Epitaxial Habits in the NaLnF4 System for Color Multiplexing at the Single-Particle Level. *Angewandte Chemie - International Edition*, **2016**, 55, 5718-22	16.4	71
161	In Vitro and In Vivo Uncaging and Bioluminescence Imaging by Using Photocaged Upconversion Nanoparticles. *Angewandte Chemie*, **2012**, 124, 3179-3183	3.6	70
160	Nitrogen-enriched pseudographitic anode derived from silk cocoon with tunable flexibility for microbial fuel cells. *Nano Energy*, **2017**, 32, 382-388	17.1	67
159	Emerging 800 nm Excited Lanthanide-Doped Upconversion Nanoparticles. *Small*, **2017**, 13, 1602843	11	67
158	Sensitive Water Probing through Nonlinear Photon Upconversion of Lanthanide-Doped Nanoparticles. *ACS Applied Materials & Interfaces*, **2016**, 8, 847-53	9.5	67
157	Orthorhombic KSc2F7:Yb/Er nanorods: controlled synthesis and strong red upconversion emission. *Nanoscale*, **2013**, 5, 11928-32	7.7	67
156	Enhanced deep-ultraviolet upconversion emission of Gd3+ sensitized by Yb3+ and Ho3+ in NaLuF4 microcrystals under 980 nm excitation. *Journal of Materials Chemistry C*, **2013**, 1, 2485	7.1	67
155	Illuminating Cell Signaling with Near-Infrared Light-Responsive Nanomaterials. *ACS Nano*, **2016**, 10, 3881-3885	13.7	66
154	Upconversion Modulation through Pulsed Laser Excitation for Anti-counterfeiting. *Scientific Reports* , **2017**, 7, 1320	4.9	64
153	Nanolithography of single-layer graphene oxide films by atomic force microscopy. *Langmuir*, **2010**, 26, 6164-6	4	62
152	Preparation of Cobalt Sulfide Nanoparticle-Decorated Nitrogen and Sulfur Co-Doped Reduced Graphene Oxide Aerogel Used as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. *Small*, **2016**, 12, 5920-5926	11	61
151	A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. *Biomaterials*, **2015**, 54, 34-43	15.6	60

150	Red-light excitable fluorescent platinum(II) bis(aryleneethynylene) bis(trialkylphosphine) complexes showing long-lived triplet excited states as triplet photosensitizers for triplet–triplet annihilation upconversion. *Journal of Materials Chemistry C*, **2013**, 1, 705-716	7.1	59
149	Mesoporous SrF2 and SrF2:Ln3+ (Ln = Ce, Tb, Yb, Er) Hierarchical Microspheres: Hydrothermal Synthesis, Growing Mechanism, and Luminescent Properties. *Journal of Physical Chemistry C*, **2010**, 114, 6928-6936	3.8	59
148	Paving Metal-Organic Frameworks with Upconversion Nanoparticles via Self-Assembly. *Journal of the American Chemical Society*, **2018**, 140, 15507-15515	16.4	59
147	Rare Earth Ion-Doped Upconversion Nanocrystals: Synthesis and Surface Modification. *Nanomaterials*, **2014**, 5, 1-25	5.4	57
146	Domino-like multi-emissions across red and near infrared from solid-state 2-/2,6-aryl substituted BODIPY dyes. *Nature Communications*, **2018**, 9, 2688	17.4	57
145	Biomimetic Chiral Photonic Crystals. *Angewandte Chemie - International Edition*, **2019**, 58, 7783-7787	16.4	56
144	Tuning hexagonal NaYbF nanocrystals down to sub-10 nm for enhanced photon upconversion. *Nanoscale*, **2017**, 9, 13739-13746	7.7	56
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142	Near-Infrared-Light Activatable Nanoparticles for Deep-Tissue-Penetrating Wireless Optogenetics. *Advanced Healthcare Materials*, **2019**, 8, e1801132	10.1	56
141	Gold Nanowire Chiral Ultrathin Films with Ultrastrong and Broadband Optical Activity. *Angewandte Chemie - International Edition*, **2017**, 56, 5055-5060	16.4	55
140	Designing next generation of photon upconversion: Recent advances in organic triplet-triplet annihilation upconversion nanoparticles. *Biomaterials*, **2019**, 201, 77-86	15.6	55
139	Room-Temperature Long-Lived 3IL Excited State of Rhodamine in an NN PtII Bis(acetylide) Complex with Intense Visible-Light Absorption. *European Journal of Inorganic Chemistry*, **2011**, 2011, 4527-4533	2.3	55
138	Elucidation of the Intersystem Crossing Mechanism in a Helical BODIPY for Low-Dose Photodynamic Therapy. *Angewandte Chemie - International Edition*, **2020**, 59, 16114-16121	16.4	55
137	Nonlinear spectral and lifetime management in upconversion nanoparticles by controlling energy distribution. *Nanoscale*, **2016**, 8, 6666-73	7.7	50
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135	Sub-5-nm gaps prepared by on-wire lithography: correlating gap size with electrical transport. *Small* , **2007**, 3, 86-90	11	49
134	Tumor-Targeted and Clearable Human Protein-Based MRI Nanoprobes. *Nano Letters*, **2017**, 17, 4096-4100	11.5	48
133	From Graphite to Graphene Oxide and Graphene Oxide Quantum Dots. *Small*, **2017**, 13, 1601001	11	43

132	Near-infrared light activated persistent luminescence nanoparticles via upconversion. *Nano Research*, **2017**, 10, 1840-1846	10	43
131	Nanostructured titanate with different metal ions on the surface of metallic titanium: a facile approach for regulation of rBMSCs fate on titanium implants. *Small*, **2014**, 10, 3169-80	11	42
130	Origin of strong and narrow localized surface plasmon resonance of copper nanocubes. *Nano Research*, **2019**, 12, 63-68	10	41
129	Assembly of nanorods into designer superstructures: the role of templating, capillary forces, adhesion, and polymer hydration. *ACS Nano*, **2010**, 4, 259-66	16.7	39
128	Water-Soluble Iridium(III)-Containing Conjugated Polyelectrolytes with Weakened Energy Transfer Properties for Multicolor Protein Sensing Applications. *Macromolecules*, **2011**, 44, 8763-8770	5.5	39
127	Inner salt-shaped small molecular photosensitizer with extremely enhanced two-photon absorption for mitochondrial-targeted photodynamic therapy. *Chemical Communications*, **2017**, 53, 1680-1683	5.8	38
126	Generation of metal photomasks by dip-pen nanolithography. *Small*, **2009**, 5, 1850-3	11	37
125	Kinetically controlled, shape-directed assembly of nanorods. *Small*, **2008**, 4, 206-10	11	37
124	Preparation, characterization, physical properties, and photoconducting behaviour of anthracene derivative nanowires. *Nanoscale*, **2011**, 3, 4720-3	7.7	36
123	Enhanced emission of NaYF4:Yb,Er/Tm nanoparticles by selective growth of Au and Ag nanoshells. *RSC Advances*, **2013**, 3, 7718	3.7	35
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118	Design for Brighter Photon Upconversion Emissions via Energy Level Overlap of Lanthanide Ions. *ACS Nano*, **2018**, 12, 10992-10999	16.7	34
117	Insights into Li+-induced morphology evolution and upconversion luminescence enhancement of KSc2F7:Yb/Er nanocrystals. *Journal of Materials Chemistry C*, **2017**, 5, 3503-3508	7.1	33
116	Solution-Processable Near-Infrared Responsive Composite of Perovskite Nanowires and Photon-Upconversion Nanoparticles. *Advanced Functional Materials*, **2018**, 28, 1801782	15.6	33
115	Dual-Signal Luminescent Detection of Dopamine by a Single Type of Lanthanide-Doped Nanoparticles. *ACS Sensors*, **2018**, 3, 1683-1689	9.2	32

114	Hedgehog-Like Upconversion Crystals: Controlled Growth and Molecular Sensing at Single-Particle Level. *Advanced Materials*, **2017**, 29, 1702315	24	31
113	Highly Effective Near-Infrared Activating Triplet-Triplet Annihilation Upconversion for Photoredox Catalysis. *Journal of the American Chemical Society*, **2020**, 142, 18460-18470	16.4	31
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111	Intrinsic defects in biomass-derived carbons facilitate electroreduction of CO2. *Nano Research*, **2020**, 13, 729-735	10	30
110	NaF-mediated controlled-synthesis of multicolor Na(x)ScF(3+x):Yb/Er upconversion nanocrystals. *Nanoscale*, **2015**, 7, 4048-54	7.7	30
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107	Designing Upconversion Nanocrystals Capable of 745 nm Sensitization and 803 nm Emission for Deep-Tissue Imaging. *Chemistry - A European Journal*, **2016**, 22, 10801-7	4.8	30
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105	Near Infrared Boron Dipyrromethene Nanoparticles for Optotheranostics. *Small Methods*, **2018**, 2, 1700320	12.8	29
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103	Water-soluble conjugated polyelectrolyte brush encapsulated rare-earth ion doped nanoparticles with dual-upconversion properties for multicolor cell imaging. *Chemical Communications*, **2013**, 49, 9012-4	5.8	29
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90	From ScOOH to Sc2 O3 : Phase Control, Luminescent Properties, and Applications. *Advanced Materials*, **2016**, 28, 6665-71	24	23
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85	Gold Nanowire Chiral Ultrathin Films with Ultrastrong and Broadband Optical Activity. *Angewandte Chemie*, **2017**, 129, 5137-5142	3.6	20
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79	Expanding Anti-Stokes Shifting in Triplet□riplet Annihilation Upconversion for In Vivo Anticancer Prodrug Activation. *Angewandte Chemie*, **2017**, 129, 14592-14596	3.6	19

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70	Switching of the triplet excited state of the C60-dimethylaminostyryl BODIPY dyads/triads. *Journal of Materials Chemistry C*, **2015**, 3, 538-550	7.1	16
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60	Scrolling up graphene oxide nanosheets assisted by self-assembled monolayers of alkanethiols. *Nanoscale*, **2017**, 9, 9997-10001	7.7	12
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57	Packed anode derived from cocklebur fruit for improving long-term performance of microbial fuel cells. *Science China Materials*, **2019**, 62, 645-652	7.1	11
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55	Ferrocene Functionalized Upconversion Nanoparticle Nanosystem with Efficient Near-Infrared-Light-Promoted Fenton-Like Reaction for Tumor Growth Suppression. *Inorganic Chemistry*, **2020**, 59, 9177-9187	5.1	10
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