Dayong Jin

List of Publications by Year in Descending Order

208 papers	10,415 citations	48 h-index	97 g-index
271 ext. papers	13,233 ext. citations	11.1 avg, IF	6.75 L-index

#	Paper	IF	Citations
208	Ratiometric 4Pi single-molecule localization with optimal resolution and color assignment.. *Optics Letters*, **2022**, 47, 325-328	3	
207	NIR-II emissive properties of 808□nm-excited lanthanide-doped nanoparticles for multiplexed in vivo imaging. *Journal of Luminescence*, **2022**, 242, 118597	3.8	2
206	Polarization modulation with optical lock-in detection reveals universal fluorescence anisotropy of subcellular structures in live cells.. *Light: Science and Applications*, **2022**, 11, 4	16.7	0
205	Responsive Sensors of Upconversion Nanoparticles. *ACS Sensors*, **2021**,	9.2	3
204	Enhancing Hybrid Upconversion Nanosystems via Synergistic Effects of Moiety Engineered NIR Dyes. *Nano Letters*, **2021**, 21, 9862-9868	11.5	5
203	Enabling peristalsis of human colon tumor organoids on microfluidic chips. *Biofabrication*, **2021**, 14,	10.5	5
202	Optical Fingerprint Classification of Single Upconversion Nanoparticles by Deep Learning. *Journal of Physical Chemistry Letters*, **2021**, 12, 10242-10248	6.4	4
201	A Portable RT-LAMP/CRISPR Machine for Rapid COVID-19 Screening. *Biosensors*, **2021**, 11,	5.9	4
200	Stratified Disk Microrobots with Dynamic Maneuverability and Proton-Activatable Luminescence for Imaging. *ACS Nano*, **2021**,	16.7	1
199	Large-area display textiles integrated with functional systems. *Nature*, **2021**, 591, 240-245	50.4	177
198	Reconstructing the Surface Structure of NaREF4 Upconversion Nanocrystals with a Novel K+ Treatment. *Chemistry of Materials*, **2021**, 33, 2548-2556	9.6	3
197	Triplet Fusion Upconversion with Oxygen Resistance in Aqueous Media. *Analytical Chemistry*, **2021**, 93, 4641-4646	7.8	
196	Magneto-Electrically Enhanced Intracellular Catalysis of FePt-FeC Heterostructures for Chemodynamic Therapy. *Advanced Materials*, **2021**, 33, e2100472	24	23
195	Low-Temperature-Induced Controllable Transversal Shell Growth of NaLnF Nanocrystals. *Nanomaterials*, **2021**, 11,	5.4	1
194	Intracellular Delivery: A Comprehensive Review on Intracellular Delivery (Adv. Mater. 13/2021). *Advanced Materials*, **2021**, 33, 2170103	24	1
193	Rotating Micromachines with Stratified Disk Architecture for Dynamic Bioanalysis. *Engineering Proceedings*, **2021**, 4, 46	0.5	
192	Heterochromatic Nonlinear Optical Responses in Upconversion Nanoparticles for Super-Resolution Nanoscopy. *Advanced Materials*, **2021**, 33, e2008847	24	9

191	Axial localization and tracking of self-interference nanoparticles by lateral point spread functions. *Nature Communications*, **2021**, 12, 2019	17.4	4
190	Stable and Highly Efficient Antibody-Nanoparticles Conjugation. *Bioconjugate Chemistry*, **2021**, 32, 1146-1155	4.3	4
189	Axially overlapped multi-focus light sheet with enlarged field of view. *Applied Physics Letters*, **2021**, 118, 223701	3.4	3
188	Entropy-driven strand displacement reaction for ultrasensitive detection of circulating tumor DNA based on upconversion and Fe3O4 nanocrystals. *Science China Materials*, **2021**, 64, 2593-2600	7.1	0
187	Upconversion Nanoparticles: Heterochromatic Nonlinear Optical Responses in Upconversion Nanoparticles for Super-Resolution Nanoscopy (Adv. Mater. 23/2021). *Advanced Materials*, **2021**, 33, 2170182	24	0
186	Improving capture efficiency of human cancer cell derived exosomes with nanostructured metal organic framework functionalized beads. *Applied Materials Today*, **2021**, 23, 100994	6.6	5
185	Dark bridge at the interface of hybrid nanosystem: Lanthanide-triplet NIR photosensitization. *CheM* , **2021**, 7, 1412-1414	16.2	1
184	Polymer-Functionalized Upconversion Nanoparticles for Light/Imaging-Guided Drug Delivery. *Biomacromolecules*, **2021**, 22, 3168-3201	6.9	9
183	Six-photon upconverted excitation energy lock-in for ultraviolet-C enhancement. *Nature Communications*, **2021**, 12, 4367	17.4	13
182	Off-axis gyration induces large-area circular motion of anisotropic microparticles in a dynamic magnetic trap. *Applied Physics Letters*, **2021**, 119, 034102	3.4	1
181	Unidirectional intercellular communication on a microfluidic chip. *Biosensors and Bioelectronics*, **2021**, 175, 112833	11.8	5
180	3D Rotation-Trackable and Differentiable Micromachines with Dimer-Type Structures for Dynamic Bioanalysis. *Advanced Intelligent Systems*, **2021**, 3, 2000205	6	2
179	Learning from lanthanide complexes: The development of dye-lanthanide nanoparticles and their biomedical applications. *Coordination Chemistry Reviews*, **2021**, 429, 213642	23.2	26
178	Networking State of Ytterbium Ions Probing the Origin of Luminescence Quenching and Activation in Nanocrystals. *Advanced Science*, **2021**, 8, 2003325	13.6	13
177	Quantitatively Monitoring Mitochondrial Thermal Dynamics by Upconversion Nanoparticles. *Nano Letters*, **2021**, 21, 1651-1658	11.5	20
176	A Comprehensive Review on Intracellular Delivery. *Advanced Materials*, **2021**, 33, e2005363	24	13
175	Optical tweezers beyond refractive index mismatch using highly doped upconversion nanoparticles. *Nature Nanotechnology*, **2021**, 16, 531-537	28.7	18
174	Optimizing the Polymer Cloak for Upconverting Nanoparticles: An Evaluation of Bioactivity and Optical Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 16142-16154	9.5	3

173	Up-conversion hybrid nanomaterials for light- and heat-driven applications. *Progress in Materials Science*, **2021**, 121, 100838	42.2	5
172	Preselectable Optical Fingerprints of Heterogeneous Upconversion Nanoparticles. *Nano Letters*, **2021**, 21, 7659-7668	11.5	10
171	Recent Progress in DNA Hybridization Chain Reaction Strategies for Amplified Biosensing. *ACS Applied Materials & Interfaces*, **2021**, 13, 38931-38946	9.5	9
170	Upconversion nanoparticle-assisted single-molecule assay for detecting circulating antigens of aggressive prostate cancer. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2021**,	4.6	2
169	Mammary Tumor Organoid Culture in Non-Adhesive Alginate for Luminal Mechanics and High-Throughput Drug Screening. *Advanced Science*, **2021**, 8, e2102418	13.6	9
168	A novel cytogenetic method to image chromatin interactions at subkilobase resolution: Tn5 transposase-based fluorescence in situ hybridization. *Journal of Genetics and Genomics*, **2020**, 47, 727-735	4	2
167	Coding and decoding stray magnetic fields for multiplexing kinetic bioassay platform. *Lab on A Chip* , **2020**, 20, 4561-4571	7.2	3
166	Anticounterfeiting Systems: Optical Nanomaterials and Enabling Technologies for High-Security-Level Anticounterfeiting (Adv. Mater. 18/2020). *Advanced Materials*, **2020**, 32, 2070141	24	2
165	AuPt-PEG-Ce6 nanoformulation with dual nanozyme activities for synergistic chemodynamic therapy / phototherapy. *Biomaterials*, **2020**, 252, 120093	15.6	104
164	Emerging technologies for profiling extracellular vesicle heterogeneity. *Lab on A Chip*, **2020**, 20, 2423-2437	7.2	32
163	Video-rate upconversion display from optimized lanthanide ion doped upconversion nanoparticles. *Nanoscale*, **2020**, 12, 18595-18599	7.7	9
162	3D printing enables the rapid prototyping of modular microfluidic devices for particle conjugation. *Applied Materials Today*, **2020**, 20, 100726	6.6	18
161	Structured illumination microscopy using digital micro-mirror device and coherent light source. *Applied Physics Letters*, **2020**, 116, 233702	3.4	17
160	Upconversion Nonlinear Structured Illumination Microscopy. *Nano Letters*, **2020**, 20, 4775-4781	11.5	19
159	Single-particle spectroscopy for functional nanomaterials. *Nature*, **2020**, 579, 41-50	50.4	82
158	Prevention of Neurite Spine Loss Induced by Dopamine D2 Receptor Overactivation in Striatal Neurons. *Frontiers in Neuroscience*, **2020**, 14, 642	5.1	2
157	Cancer Spheroids: Super-Resolution Mapping of Single Nanoparticles inside Tumor Spheroids (Small 6/2020). *Small*, **2020**, 16, 2070030	11	
156	Super-Resolution Mapping of Single Nanoparticles inside Tumor Spheroids. *Small*, **2020**, 16, e1905572	11	18

155	Helix Shape Power-Dependent Properties of Single Upconversion Nanoparticles. *Journal of Physical Chemistry Letters*, **2020**, 11, 2883-2890	6.4	15
154	3D Printing of Inertial Microfluidic Devices. *Scientific Reports*, **2020**, 10, 5929	4.9	58
153	Frequency-domain diagonal extension imaging. *Advanced Photonics*, **2020**, 2, 1	8.1	5
152	Topological nanophotonics for photoluminescence control. *Nanophotonics*, **2020**, 10, 435-441	6.3	6
151	Point of Care Diagnostics in the Age of COVID-19. *Diagnostics*, **2020**, 11,	3.8	24
150	Volume-preserving strategies to improve the mixing efficiency of serpentine micromixers. *Journal of Micromechanics and Microengineering*, **2020**, 30, 115022	2	3
149	Biological Diagnosis Based on Microfluidics and Nanotechnology **2020**, 211-238		3
148	PCR-free paper-based nanobiosensing platform for visual detection of telomerase activity via gold enhancement. *Microchemical Journal*, **2020**, 154, 104594	4.8	6
147	Advances and challenges for fluorescence nanothermometry. *Nature Methods*, **2020**, 17, 967-980	21.6	112
146	Obstacle-free planar hybrid micromixer with low pressure drop. *Microfluidics and Nanofluidics*, **2020** , 24, 1	2.8	11
145	High-dimensional super-resolution imaging reveals heterogeneity and dynamics of subcellular lipid membranes. *Nature Communications*, **2020**, 11, 5890	17.4	20
144	Nanorods with multidimensional optical information beyond the diffraction limit. *Nature Communications*, **2020**, 11, 6047	17.4	12
143	Low threshold lasing emissions from a single upconversion nanocrystal. *Nature Communications*, **2020**, 11, 6156	17.4	16
142	Mitochondrial dynamics quantitatively revealed by STED nanoscopy with an enhanced squaraine variant probe. *Nature Communications*, **2020**, 11, 3699	17.4	29
141	Highly Doped Upconversion Nanoparticles for Applications Under Mild Excitation Power. *Analytical Chemistry*, **2020**, 92, 10913-10919	7.8	3
140	Upconversion nanoparticles coated with molecularly imprinted polymers for specific sensing. *Dalton Transactions*, **2020**, 49, 17200-17206	4.3	3
139	Colorectal Tumor Microenvironment-Activated Bio-Decomposable and Metabolizable Cu O@CaCO Nanocomposites for Synergistic Oncotherapy. *Advanced Materials*, **2020**, 32, e2004647	24	59
138	Optical Nanomaterials and Enabling Technologies for High-Security-Level Anticounterfeiting. *Advanced Materials*, **2020**, 32, e1901430	24	165

137	Future and challenges for hybrid upconversion nanosystems. *Nature Photonics*, **2019**, 13, 828-838	33.9	73
136	New strategy for designing orangish-red-emitting phosphor via oxygen-vacancy-induced electronic localization. *Light: Science and Applications*, **2019**, 8, 15	16.7	173
135	Thermally enhanced NIR-NIR anti-Stokes emission in rare earth doped nanocrystals. *Nanoscale*, **2019**, 11, 12547-12552	7.7	25
134	Boosting NIR-driven photocatalytic water splitting by constructing 2D/3D epitaxial heterostructures. *Journal of Materials Chemistry A*, **2019**, 7, 13629-13634	13	21
133	High-sensitivity imaging of time-domain near-infrared light transducer. *Nature Photonics*, **2019**, 13, 525-531	33.9	85
132	Tumour microenvironment responsive nanoconstructs for cancer theranostic. *Nano Today*, **2019**, 26, 16-56	17.9	73
131	An integrin □intermediate affinity state mediates biomechanical platelet aggregation. *Nature Materials*, **2019**, 18, 760-769	27	48
130	MnO2-Disguised Upconversion Hybrid Nanocomposite: An Ideal Architecture for Tumor Microenvironment-Triggered UCL/MR Bioimaging and Enhanced Chemodynamic Therapy. *Chemistry of Materials*, **2019**, 31, 2651-2660	9.6	92
129	Plasmonic platform based on nanoporous alumina membranes: order control via self-assembly. *Journal of Materials Chemistry A*, **2019**, 7, 9565-9577	13	9
128	Rapid Softlithography Using 3D-Printed Molds. *Advanced Materials Technologies*, **2019**, 4, 1900425	6.8	27
127	Super-resolution imaging of fluorescent dipoles via polarized structured illumination microscopy. *Nature Communications*, **2019**, 10, 4694	17.4	37
126	Ultrasensitive Ratiometric Nanothermometer with Large Dynamic Range and Photostability. *Chemistry of Materials*, **2019**, 31, 9480-9487	9.6	53
125	Microfluidics: Rapid Softlithography Using 3D-Printed Molds (Adv. Mater. Technol. 10/2019). *Advanced Materials Technologies*, **2019**, 4, 1970056	6.8	
124	Gradient-sized control of tumor spheroids on a single chip. *Lab on A Chip*, **2019**, 19, 4093-4103	7.2	23
123	A homogeneous DNA assay by recovering inhibited emission of rare earth ions-doped upconversion nanoparticles. *Journal of Rare Earths*, **2019**, 37, 11-18	3.7	7
122	Nanoarchitechtonics of Visible-Blind Ultraviolet Photodetector Materials: Critical Features and Nano-Microfabrication. *Advanced Optical Materials*, **2019**, 7, 1800580	8.1	29
121	Recent advances in near-infrared emitting lanthanide-doped nanoconstructs: Mechanism, design and application for bioimaging. *Coordination Chemistry Reviews*, **2019**, 381, 104-134	23.2	165
120	Large-scale dewetting assembly of gold nanoparticles for plasmonic enhanced upconversion nanoparticles. *Nanoscale*, **2018**, 10, 6270-6276	7.7	27

119	All-optical control and super-resolution imaging of quantum emitters in layered materials. *Nature Communications*, **2018**, 9, 874	17.4	39
118	Anisotropic functionalization of upconversion nanoparticles. *Chemical Science*, **2018**, 9, 4352-4358	9.4	31
117	Bispecific Antibody-Functionalized Upconversion Nanoprobe. *Analytical Chemistry*, **2018**, 90, 3024-3029	7.8	15
116	Systematic investigation of functional ligands for colloidal stable upconversion nanoparticles.. *RSC Advances*, **2018**, 8, 4842-4849	3.7	46
115	Activation of the surface dark-layer to enhance upconversion in a thermal field. *Nature Photonics*, **2018**, 12, 154-158	33.9	174
114	The Quest for Optical Multiplexing in Bio-discoveries. *CheM*, **2018**, 4, 997-1021	16.2	40
113	Recent advances in functional nanomaterials for light-triggered cancer therapy. *Nano Today*, **2018**, 19, 146-187	17.9	325
112	Developing novel methods to image and visualize 3D genomes. *Cell Biology and Toxicology*, **2018**, 34, 367-380	7.4	19
111	A supramolecular self-assembly strategy for upconversion nanoparticle bioconjugation. *Chemical Communications*, **2018**, 54, 3851-3854	5.8	25
110	Double-Sensitive Drug Release System Based on MnO2 Assembled Upconversion Nanoconstruct for Double-Model Guided Chemotherapy. *ACS Applied Nano Materials*, **2018**, 1, 1648-1656	5.6	20
109	Super-resolution fluorescence polarization microscopy. *Journal of Innovative Optical Health Sciences* , **2018**, 11, 1730002	1.2	11
108	Direct cation exchange of surface ligand capped upconversion nanocrystals to produce strong luminescence. *Chemical Communications*, **2018**, 54, 9587-9590	5.8	10
107	Impact of Lanthanide Nanomaterials on Photonic Devices and Smart Applications. *Small*, **2018**, 14, e1801882	13.3	87
106	Phenanthriplatin(iv) conjugated multifunctional up-converting nanoparticles for drug delivery and biomedical imaging. *Journal of Materials Chemistry B*, **2018**, 6, 5059-5068	7.3	23
105	Multi-photon near-infrared emission saturation nanoscopy using upconversion nanoparticles. *Nature Communications*, **2018**, 9, 3290	17.4	92
104	One-Step Loading of Gold and GdO Nanoparticles within PEGylated Polyethylenimine for Dual Mode Computed Tomography/Magnetic Resonance Imaging of Tumors.. *ACS Applied Bio Materials*, **2018**, 1, 221-225	4.1	7
103	DNA-mediated anisotropic silica coating of upconversion nanoparticles. *Chemical Communications*, **2018**, 54, 7183-7186	5.8	5
102	Taking upconversion to lase in microcavity. *Nature Nanotechnology*, **2018**, 13, 534-536	28.7	6

101	Advances in highly doped upconversion nanoparticles. *Nature Communications*, **2018**, 9, 2415	17.4	502
100	Reversible and Sensitive Hg Detection by a Cell-Permeable Ytterbium Complex. *Inorganic Chemistry*, **2018**, 57, 120-128	5.1	23
99	Exonuclease III-Assisted Upconversion Resonance Energy Transfer in a Wash-Free Suspension DNA Assay. *Analytical Chemistry*, **2018**, 90, 663-668	7.8	31
98	Targeted iron nanoparticles with platinum-(IV) prodrugs and anti-EZH2 siRNA show great synergy in combating drug resistance in vitro and in vivo. *Biomaterials*, **2018**, 155, 112-123	15.6	43
97	A stoichiometric terbium-europium dyad molecular thermometer: energy transfer properties. *Light: Science and Applications*, **2018**, 7, 96	16.7	59
96	Quantitative Lateral Flow Strip Sensor Using Highly Doped Upconversion Nanoparticles. *Analytical Chemistry*, **2018**, 90, 12356-12360	7.8	65
95	Polarization-based super-resolution imaging of surface-enhanced Raman scattering nanoparticles with orientational information. *Nanoscale*, **2018**, 10, 19757-19765	7.7	10
94	Nanoparticles for super-resolution microscopy and single-molecule tracking. *Nature Methods*, **2018**, 15, 415-423	21.6	142
93	Microscopic inspection and tracking of single upconversion nanoparticles in living cells. *Light: Science and Applications*, **2018**, 7, 18007	16.7	92
92	MEMS piezoresistive flow sensors for sleep apnea therapy. *Sensors and Actuators A: Physical*, **2018**, 279, 577-585	3.9	18
91	Silica shell-assisted synthetic route for mono-disperse persistent nanophosphors with enhanced in vivo recharged near-infrared persistent luminescence. *Nano Research*, **2017**, 10, 2070-2082	10	80
90	Amplified stimulated emission in upconversion nanoparticles for super-resolution nanoscopy. *Nature*, **2017**, 543, 229-233	50.4	473
89	Optimal Sensitizer Concentration in Single Upconversion Nanocrystals. *Nano Letters*, **2017**, 17, 2858-2864	11.5	118
88	Depth-profiling of Yb sensitizer ions in NaYF upconversion nanoparticles. *Nanoscale*, **2017**, 9, 7719-7726	7.7	28
87	Heterogeneously Nd doped single nanoparticles for NIR-induced heat conversion, luminescence, and thermometry. *Nanoscale*, **2017**, 9, 8288-8297	7.7	114
86	Upconversion nanoparticles loaded with eIF4E siRNA and platinum(iv) prodrug to sensitize platinum based chemotherapy for laryngeal cancer and bioimaging. *Journal of Materials Chemistry B*, **2017**, 5, 307-317	7.3	13
85	Tuning Enhancement Efficiency of Multiple Emissive Centers in Graphene Quantum Dots by Core-Shell Plasmonic Nanoparticles. *Journal of Physical Chemistry Letters*, **2017**, 8, 5673-5679	6.4	9
84	Recent Progress in Near Infrared Light Triggered Photodynamic Therapy. *Small*, **2017**, 13, 1702299	11	171

83	A versatile upconversion surface evaluation platform for bio-nano surface selection for the nervous system. *Nanoscale*, **2017**, 9, 13683-13692	7.7	9
82	Controlled Synthesis, Evolution Mechanisms, and Luminescent Properties of ScFx:Ln (x = 2.76, 3) Nanocrystals. *Chemistry of Materials*, **2017**, 29, 9758-9766	9.6	17
81	Challenges in DNA Delivery and Recent Advances in Multifunctional Polymeric DNA Delivery Systems. *Biomacromolecules*, **2017**, 18, 2231-2246	6.9	115
80	Stable Upconversion Nanohybrid Particles for Specific Prostate Cancer Cell Immunodetection. *Scientific Reports*, **2016**, 6, 37533	4.9	20
79	Versatile Application of Fluorescent Quantum Dot Labels in Super-resolution Fluorescence Microscopy. *ACS Photonics*, **2016**, 3, 1611-1618	6.3	37
78	Super-resolution dipole orientation mapping via polarization demodulation. *Light: Science and Applications*, **2016**, 5, e16166	16.7	62
77	One-step Conjugation of Glycyrrhetinic Acid to Cationic Polymers for High-performance Gene Delivery to Cultured Liver Cell. *Scientific Reports*, **2016**, 6, 21891	4.9	16
76	Mirror-enhanced super-resolution microscopy. *Light: Science and Applications*, **2016**, 5,	16.7	58
75	808□nm Light-triggered and hyaluronic acid-targeted dual-photosensitizers nanoplatform by fully utilizing Nd(3+)-sensitized upconversion emission with enhanced anti-tumor efficacy. *Biomaterials*, **2016**, 101, 32-46	15.6	150
74	Optimization of upconversion luminescence of Nd(3+)-sensitized BaGdF5-based nanostructures and their application in dual-modality imaging and drug delivery. *Dalton Transactions*, **2016**, 45, 1708-16	4.3	35
73	High-Precision Pinpointing of Luminescent Targets in Encoder-Assisted Scanning Microscopy Allowing High-Speed Quantitative Analysis. *Analytical Chemistry*, **2016**, 88, 1312-9	7.8	3
72	808 nm photocontrolled UCL imaging guided chemo/photothermal synergistic therapy with single UCNPs-CuS@PAA nanocomposite. *Dalton Transactions*, **2016**, 45, 13061-9	4.3	33
71	Rational design of a comprehensive cancer therapy platform using temperature-sensitive polymer grafted hollow gold nanospheres: simultaneous chemo/photothermal/photodynamic therapy triggered by a 650 nm laser with enhanced anti-tumor efficacy. *Nanoscale*, **2016**, 8, 6837-50	7.7	42
70	Three-dimensional controlled growth of monodisperse sub-50 nm heterogeneous nanocrystals. *Nature Communications*, **2016**, 7, 10254	17.4	205
69	Magnetically targeted delivery of DOX loaded Cu9S5@mSiO2@Fe3O4-PEG nanocomposites for combined MR imaging and chemo/photothermal synergistic therapy. *Nanoscale*, **2016**, 8, 12560-9	7.7	46
68	Upconversion Nanocrystals Doped Glass: A New Paradigm for Integrated Optical Glass **2016**,		1
67	Upconversion Nanocrystal-Doped Glass: A New Paradigm for Photonic Materials. *Advanced Optical Materials*, **2016**, 4, 1507-1517	8.1	57
66	High-Contrast Visualization of Upconversion Luminescence in Mice Using Time-Gating Approach. *Analytical Chemistry*, **2016**, 88, 3449-54	7.8	68

65	Emission stability and reversibility of upconversion nanocrystals. *Journal of Materials Chemistry C*, **2016**, 4, 9227-9234	7.1	21
64	Sensitive Time-Gated Immunoluminescence Detection of Prostate Cancer Cells Using a TEGylated Europium Ligand. *Analytical Chemistry*, **2016**, 88, 9564-9571	7.8	19
63	Probing the Interior Crystal Quality in the Development of More Efficient and Smaller Upconversion Nanoparticles. *Journal of Physical Chemistry Letters*, **2016**, 7, 3252-8	6.4	35
62	Multifunctional chitosan/polyvinyl pyrrolidone/45S5 Bioglass scaffolds for MC3T3-E1 cell stimulation and drug release. *Materials Science and Engineering C*, **2015**, 56, 473-80	8.3	38
61	One-Step Protein Conjugation to Upconversion Nanoparticles. *Analytical Chemistry*, **2015**, 87, 10406-13	7.8	42
60	Controlling upconversion nanocrystals for emerging applications. *Nature Nanotechnology*, **2015**, 10, 924-36	36.7	970
59	Multifunctional luminescent nanomaterials from NaLa(MoO4)2:Eu(3+)/Tb(3+) with tunable decay lifetimes, emission colors, and enhanced cell viability. *Scientific Reports*, **2015**, 5, 11844	4.9	34
58	Background-free in-vivo Imaging of Vitamin C using Time-gateable Responsive Probe. *Scientific Reports*, **2015**, 5, 14194	4.9	34
57	Rapid detection of rare-event cell by SUPER Dots based diagnostics nano-platform. *Journal of Controlled Release*, **2015**, 213, e11-2	11.7	
56	Starch borate graphene oxide nanocomposites as highly efficient targeted antitumor drugs. *RSC Advances*, **2015**, 5, 94855-94858	3.7	4
55	Tunable lifetime multiplexing using luminescent nanocrystals. *Nature Photonics*, **2014**, 8, 32-36	33.9	530
54	Development of a functional ruthenium(II) complex for probing hypochlorous acid in living cells. *Dalton Transactions*, **2014**, 43, 8414-20	4.3	39
53	How to build a time-gated luminescence microscope. *Current Protocols in Cytometry*, **2014**, 67, 2.22.1-2.22.36	3.6	17
52	Multicolor barcoding in a single upconversion crystal. *Journal of the American Chemical Society*, **2014**, 136, 4893-6	16.4	302
51	Practical implementation, characterization and applications of a multi-colour time-gated luminescence microscope. *Scientific Reports*, **2014**, 4, 6597	4.9	47
50	Schlieren confocal microscopy for phase-relief imaging. *Optics Letters*, **2014**, 39, 1238-41	3	3
49	On-the-fly decoding luminescence lifetimes in the microsecond region for lanthanide-encoded suspension arrays. *Nature Communications*, **2014**, 5, 3741	17.4	111
48	Application of exonuclease III-aided target recycling in flow cytometry: DNA detection sensitivity enhanced by orders of magnitude. *Analytical Chemistry*, **2013**, 85, 8240-5	7.8	23

47	Single-nanocrystal sensitivity achieved by enhanced upconversion luminescence. *Nature Nanotechnology*, **2013**, 8, 729-34	28.7	483
46	Upconversion luminescence with tunable lifetime in NaYF4:Yb,Er nanocrystals: role of nanocrystal size. *Nanoscale*, **2013**, 5, 944-52	7.7	278
45	Background free imaging of upconversion nanoparticle distribution in human skin. *Journal of Biomedical Optics*, **2013**, 18, 061215	3.5	33
44	Observation of mesenteric microcirculatory disturbance in rat by laser oblique scanning optical microscopy. *Scientific Reports*, **2013**, 3, 1762	4.9	4
43	High-throughput 3-dimensional time-resolved spectroscopy: simultaneous characterisation of luminescence properties in spectral and temporal domains. *RSC Advances*, **2013**, 3, 8670	3.7	7
42	Analytical description of high-aperture STED resolution with 0-2π vortex phase modulation. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2013**, 30, 1640-5	1.8	12
41	Sensitive detection of NaYF4: Yb/Tm nanoparticles using suspended core microstructured optical fibers **2013**,		1
40	STED3D: point spread function simulation for high numerical aperture objective and resolution evaluation **2013**,		1
39	Lanthanide upconversion within microstructured optical fibers: improved detection limits for sensing and the demonstration of a new tool for nanocrystal characterization. *Nanoscale*, **2012**, 4, 7448-51	7.7	14
38	Resolving low-expression cell surface antigens by time-gated orthogonal scanning automated microscopy. *Analytical Chemistry*, **2012**, 84, 9674-8	7.8	13
37	New class of tetradentate β-diketonate-europium complexes that can be covalently bound to proteins for time-gated fluorometric application. *Bioconjugate Chemistry*, **2012**, 23, 1244-51	6.3	33
36	Photoluminescent and electrochemiluminescent dual-signaling probe for bio-thiols based on a ruthenium(II) complex. *Analytica Chimica Acta*, **2012**, 740, 80-7	6.6	37
35	Taking Plasmonic Core–Shell Nanoparticles Toward Laser Threshold. *Journal of Physical Chemistry C* , **2012**, 116, 7546-7551	3.8	16
34	Preparation and time-gated luminescence bioimaging applications of long wavelength-excited silica-encapsulated europium nanoparticles. *Nanoscale*, **2012**, 4, 3551-7	7.7	36
33	Developing red-emissive ruthenium(II) complex-based luminescent probes for cellular imaging. *Bioconjugate Chemistry*, **2012**, 23, 725-33	6.3	55
32	Achieving λ/10 resolution CW STED nanoscopy with a Ti:Sapphire oscillator. *PLoS ONE*, **2012**, 7, e40003	3.7	30
31	CRAFT: Multimodality confocal skin imaging for early cancer diagnosis. *Journal of Biophotonics*, **2012**, 5, 469-76	3.1	7
30	A cost-effective analog method to produce time-gated luminescence images **2012**,		4

29	Laser oblique scanning optical microscopy (LOSOM) for phase relief imaging. *Optics Express*, **2012**, 20, 14100-8	3.3	8
28	Time-gated orthogonal scanning automated microscopy (OSAM) for high-speed cell detection and analysis. *Scientific Reports*, **2012**, 2, 837	4.9	23
27	Comparative structural analysis of the glycosylation of salivary and buccal cell proteins: innate protection against infection by Candida albicans. *Glycobiology*, **2012**, 22, 1465-79	5.8	78
26	Lanthanide upconversion nanocrystals within microstructured optical fibres; a sensitive platform for biosensing and a new tool for nanocrystal characterisation **2012**,		1
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