Yong Zhang

List of Publications by Year in Descending Order

255 papers	23,465 citations	72 h-index	150 g-index
264 ext. papers	26,283 ext. citations	9.8 avg, IF	7.51 L-index

#	Paper	IF	Citations
255	Towards translational optogenetics.. *Nature Biomedical Engineering*, **2022**,	19	5
254	ZIF-8 encapsulated upconversion nanoprobes to evaluate pH variations in food spoilage.. *Mikrochimica Acta*, **2022**, 189, 87	5.8	0
253	Wirelessly Activated Nanotherapeutics for In Vivo Programmable Photodynamic-Chemotherapy of Orthotopic Bladder Cancer.. *Advanced Science*, **2022**, e2200731	13.6	2
252	Photodynamic-based combinatorial cancer therapy strategies: Tuning the properties of nanoplatform according to oncotherapy needs. *Coordination Chemistry Reviews*, **2022**, 461, 214495	23.2	3
251	Shedding Light on Luminescent Janus Nanoparticles: From Synthesis to Photoluminescence and Applications.. *Small*, **2022**, e2200020	11	1
250	ZnO/COF S-scheme heterojunction for improved photocatalytic H2O2 production performance. *Chemical Engineering Journal*, **2022**, 444, 136584	14.7	3
249	Self-Assembly of Upconversion Nanoparticles Based Materials and Their Emerging Applications. *Small*, **2021**, e2103241	11	1
248	Full shell coating or cation exchange enhances luminescence. *Nature Communications*, **2021**, 12, 6178	17.4	6
247	Upconversion Perovskite Nanocrystal Heterostructures with Enhanced Luminescence and Stability by Lattice Matching. *ACS Applied Materials & Interfaces*, **2021**, 13, 51362-51372	9.5	0
246	Exploring Heterostructured Upconversion Nanoparticles: From Rational Engineering to Diverse Applications. *ACS Nano*, **2021**, 15, 3709-3735	16.7	26
245	Moving Binary-Color Heterojunction for Spatiotemporal Multilevel Encryption Directional Swelling and Anion Exchange. *ACS Nano*, **2021**, 15, 7628-7637	16.7	8
244	Enhancement of upconversion luminescence intensity in NaMgF3:2.5%Yb3+, 0.5%Er3+ nanocrystals with Eu3+ doping. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 20882-20890	2.1	0
243	Near-infrared-responsive functional nanomaterials: the first domino of combined tumor therapy. *Nano Today*, **2021**, 36, 100963	17.9	11
242	Spectral engineering of lanthanide-doped upconversion nanoparticles and their biosensing applications. *Materials Chemistry Frontiers*, **2021**, 5, 1743-1770	7.8	11
241	Dual-light triggered metabolizable nano-micelles for selective tumor-targeted photodynamic/hyperthermia therapy. *Acta Biomaterialia*, **2021**, 119, 323-336	10.8	10
240	Thermally stable fishnet-like 1T-MoS2/CNT heterostructures with improved electrode performance. *Journal of Materials Chemistry A*, **2021**, 9, 4707-4715	13	4
239	NIR-excitable heterostructured upconversion perovskite nanodots with improved stability. *Nature Communications*, **2021**, 12, 219	17.4	22

238	Biodegradable manganese engineered nanocapsules for tumor-sensitive near-infrared persistent luminescence/magnetic resonance imaging and simultaneous chemotherapy. *Theranostics*, **2021**, 11, 8448-8463	12.1	6
237	Single-Line Flow Assay Platform Based on Orthogonal Emissive Upconversion Nanoparticles. *Analytical Chemistry*, **2021**, 93, 3010-3017	7.8	10
236	Orthogonal Emissive Upconversion Nanoparticles: Material Design and Applications. *Small*, **2021**, 17, e2004552	11	16
235	Lanthanides-doped near-infrared active upconversion nanocrystals: Upconversion mechanisms and synthesis. *Coordination Chemistry Reviews*, **2021**, 438, 213870	23.2	25
234	Engineering Near-Infrared-Excitable Metal-Organic Framework for Tumor Microenvironment Responsive Therapy.. *ACS Applied Bio Materials*, **2021**, 4, 6316-6325	4.1	2
233	Glucose-Targeted Hydroxyapatite/Indocyanine Green Hybrid Nanoparticles for Collaborative Tumor Therapy. *ACS Applied Materials & Interfaces*, **2021**, 13, 37665-37679	9.5	1
232	Rationally designed upconversion nanoparticles for NIR light-controlled lysosomal escape and nucleus-based photodynamic therapy. *Mikrochimica Acta*, **2021**, 188, 349	5.8	4
231	Perovskite Nanocrystals with Tunable Fluorescent Intensity during Anion Exchange for Dynamic Optical Encryption. *ACS Applied Materials & Interfaces*, **2021**, 13, 47072-47080	9.5	1
230	A Biosynthesized Near-Infrared-Responsive Nanocomposite Biomaterial for Antimicrobial and Antibiofilm Treatment.. *ACS Applied Bio Materials*, **2021**, 4, 7542-7553	4.1	3
229	pH-Responsive Hybrid Nanoparticles for Imaging Spatiotemporal pH Changes in Biofilm-Dentin Microenvironments. *ACS Applied Materials & Interfaces*, **2021**, 13, 46247-46259	9.5	0
228	Elucidating the role of energy management in making brighter, and more colorful upconversion nanoparticles. *Materials Today Physics*, **2021**, 20, 100451	8	5
227	Synergistic upconversion photodynamic and photothermal therapy under cold near-infrared excitation. *Journal of Colloid and Interface Science*, **2021**, 600, 513-529	9.3	7
226	Hollow upconversion nanoparticles: Synthesis and luminescence in comparison with their solid counterparts. *Chemical Engineering Journal*, **2021**, 426, 131376	14.7	0
225	HO self-providing synergistic chemodynamic/photothermal therapy using graphene oxide supported zero valence iron nanoparticles.. *RSC Advances*, **2021**, 11, 28973-28987	3.7	1
224	Recent advances in radiation therapy and photodynamic therapy. *Applied Physics Reviews*, **2021**, 8, 041322	17.3	5
223	Controllable Assembly of Upconversion Nanoparticles Enhanced Tumor Cell Penetration and Killing Efficiency. *Advanced Science*, **2020**, 7, 2001831	13.6	12
222	A Flexi-PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy. *Advanced Materials*, **2020**, 32, e2001459	24	25
221	Modularly Assembled Upconversion Nanoparticles for Orthogonally Controlled Cell Imaging and Drug Delivery. *ACS Applied Materials & Interfaces*, **2020**, 12, 12549-12556	9.5	22

220	Programmable starving-photodynamic synergistic cancer therapy. *Science China Materials*, **2020**, 63, 611-619	7.1	15
219	Nanoelectrode design from microminiaturized honeycomb monolith with ultrathin and stiff nanoscaffold for high-energy micro-supercapacitors. *Nature Communications*, **2020**, 11, 299	17.4	33
218	An Excitation Navigating Energy Migration of Lanthanide Ions in Upconversion Nanoparticles. *Advanced Materials*, **2020**, 32, e1906225	24	38
217	Construction of a near-infrared responsive upconversion nanoplatform against hypoxic tumors via NO-enhanced photodynamic therapy. *Nanoscale*, **2020**, 12, 7875-7887	7.7	20
216	Surface lanthanide activator doping for constructing highly efficient energy transfer-based nanoprobes for the on-site monitoring of atmospheric sulfur dioxide. *Analyst, The*, **2020**, 145, 537-543	5	6
215	Combination of tumor fragments and nanotechnology as a therapeutic approach: Treating a tumor with tumor. *Nano Today*, **2020**, 35, 100993	17.9	8
214	Phase-Change Nanotherapeutic Agents Based on Mesoporous Carbon for Multimodal Imaging and Tumor Therapy.. *ACS Applied Bio Materials*, **2020**, 3, 8705-8713	4.1	4
213	Near-Infrared Excited Orthogonal Emissive Upconversion Nanoparticles for Imaging-Guided On-Demand Therapy. *ACS Nano*, **2019**, 13, 10405-10418	16.7	65
212	Manipulating energy migration within single lanthanide activator for switchable upconversion emissions towards bidirectional photoactivation. *Nature Communications*, **2019**, 10, 4416	17.4	49
211	Microfluidic-Based Immunomodulation of Immune Cells Using Upconversion Nanoparticles in Simulated Blood Vessel-Tumor System. *ACS Applied Materials & Interfaces*, **2019**, 11, 37513-37523	9.5	13
210	Photoexcitation of self-n-doped fullerene ammonium halides: The role of halide ion and a possible synergistic dual-redox cycle mechanism within their aggregate. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 373, 131-138	4.7	1
209	Heavy-atom-free charge transfer photosensitizers: Tuning the efficiency of BODIPY in singlet oxygen generation via intramolecular electron donor-acceptor interaction. *Dyes and Pigments*, **2019** , 164, 139-147	4.6	23
208	Fluorescent microbeads for point-of-care testing: a review. *Mikrochimica Acta*, **2019**, 186, 361	5.8	26
207	Comparative investigation of the optical spectroscopic and thermal effect in Nd-doped nanoparticles. *Nanoscale*, **2019**, 11, 10220-10228	7.7	16
206	G-Quadruplex/Porphyrin Composite Photosensitizer: A Facile Way to Promote Absorption Redshift and Photodynamic Therapy Efficacy. *ACS Applied Materials & Interfaces*, **2019**, 11, 13158-13167	9.5	31
205	pH-responsive and self-targeting assembly from hyaluronic acid-based conjugate toward all-in-one chemo-photodynamic therapy. *Journal of Colloid and Interface Science*, **2019**, 547, 30-39	9.3	18
204	Tumor Targeting Strategies of Smart Fluorescent Nanoparticles and Their Applications in Cancer Diagnosis and Treatment. *Advanced Materials*, **2019**, 31, e1902409	24	94
203	Upconversion superballs for programmable photoactivation of therapeutics. *Nature Communications*, **2019**, 10, 4586	17.4	58

202	A Review on Deterministic Lateral Displacement for Particle Separation and Detection. *Nano-Micro Letters*, **2019**, 11, 77	19.5	52
201	Upconversional Nanoprobes with Highly Efficient Energy Transfer for Ultrasensitive Detection of Alkaline Phosphatase. *ACS Sensors*, **2019**, 4, 2864-2868	9.2	20
200	Recent Progress of Rare-Earth Doped Upconversion Nanoparticles: Synthesis, Optimization, and Applications. *Advanced Science*, **2019**, 6, 1901358	13.6	115
199	Light-activated drug release from prodrug nanoassemblies by structure destruction. *Chemical Communications*, **2019**, 55, 13128-13131	5.8	7
198	Engineering Efficient Photon Upconversion in Semiconductor Heterostructures. *ACS Nano*, **2019**, 13, 489-497	16.7	13
197	Portable Smartphone-Based Platform for Real-Time Particle Detection in Microfluidics. *Advanced Materials Technologies*, **2019**, 4, 1800359	6.8	8
196	White-light emissive upconversion nanoparticles for visual and colorimetric determination of the pesticide thiram. *Mikrochimica Acta*, **2019**, 186, 106	5.8	17
195	Exfoliated Triazine-Based Covalent Organic Nanosheets with Multielectron Redox for High-Performance Lithium Organic Batteries. *Advanced Energy Materials*, **2019**, 9, 1801010	21.8	102
194	Upconversion Nanoprobes: Recent Advances in Sensing Applications. *Analytical Chemistry*, **2019**, 91, 548-568	7.8	128
193	Fluorescent label-free quantitative detection of nano-sized bioparticles using a pillar array. *Nature Communications*, **2018**, 9, 1254	17.4	31
192	Boosting lithium storage in covalent organic framework via activation of 14-electron redox chemistry. *Nature Communications*, **2018**, 9, 576	17.4	288
191	In vivo wireless photonic photodynamic therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1469-1474	11.5	91
190	Real-Time Visualization of Cysteine Metabolism in Living Cells with Ratiometric Fluorescence Probes. *Analytical Chemistry*, **2018**, 90, 2686-2691	7.8	28
189	Upconversion Nanoparticles-Encoded Hydrogel Microbeads-Based Multiplexed Protein Detection. *Nano-Micro Letters*, **2018**, 10, 31	19.5	33
188	Nanotechnology: a promising method for oral cancer detection and diagnosis. *Journal of Nanobiotechnology*, **2018**, 16, 52	9.4	57
187	Elimination of concentration dependent luminescence quenching in surface protected upconversion nanoparticles. *Nanoscale*, **2018**, 10, 16447-16454	7.7	21
186	Recent Development of Metallic (1T) Phase of Molybdenum Disulfide for Energy Conversion and Storage. *Advanced Energy Materials*, **2018**, 8, 1703482	21.8	197
185	Photon Upconversion Kinetic Nanosystems and Their Optical Response. *Laser and Photonics Reviews*, **2018**, 12, 1700144	8.3	24

184	Phase controllable synthesis of NaMgF3:Yb3+, Er3+ nanocrystals with effective red upconversion luminescence. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 18320-18330	2.1	2
183	Strong Coupling of MoS Nanosheets and Nitrogen-Doped Graphene for High-Performance Pseudocapacitance Lithium Storage. *Small*, **2018**, 14, e1704410	11	72
182	Phase angle encoded upconversion luminescent nanocrystals for multiplexing applications. *Nanoscale*, **2017**, 9, 1676-1686	7.7	57
181	Metal-enhanced upconversion luminescence of NaYF4:Yb/Er with Ag nanoparticles. *Materials Research Bulletin*, **2017**, 88, 182-187	5.1	20
180	Versatile design and synthesis of nano-barcodes. *Chemical Society Reviews*, **2017**, 46, 7054-7093	58.5	130
179	Targeting ligand-functionalized photothermal scaffolds for cancer cell capture and in situ ablation. *Biomaterials Science*, **2017**, 5, 2276-2284	7.4	8
178	Yolk shell nanocomposite particles as bioactive bone fillers and growth factor carriers. *Nanoscale*, **2017**, 9, 14520-14532	7.7	4
177	Huge enhancement of upconversion luminescence by dye/Nd sensitization of quenching-shield sandwich structured upconversion nanocrystals under 808 nm excitation. *Dalton Transactions*, **2017**, 46, 16180-16189	4.3	15
176	Size-selective QD@MOF core-shell nanocomposites for the highly sensitive monitoring of oxidase activities. *Biosensors and Bioelectronics*, **2017**, 87, 339-344	11.8	51
175	A protected excitation-energy reservoir for efficient upconversion luminescence. *Nanoscale*, **2017**, 10, 250-259	7.7	33
174	Smartphone based visual and quantitative assays on upconversional paper sensor. *Biosensors and Bioelectronics*, **2016**, 75, 427-32	11.8	121
173	A two-photon fluorescent turn-on probe for imaging of SO2 derivatives in living cells and tissues. *Analytica Chimica Acta*, **2016**, 937, 136-42	6.6	39
172	Novel nanostructures for efficient photon upconversion and high-efficiency photovoltaics. *Solar Energy Materials and Solar Cells*, **2016**, 155, 446-453	6.4	19
171	Asymmetrical Deterministic Lateral Displacement Gaps for Dual Functions of Enhanced Separation and Throughput of Red Blood Cells. *Scientific Reports*, **2016**, 6, 22934	4.9	63
170	Designing idiosyncratic hmPCL-siRNA nanoformulated capsules for silencing and cancer therapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 579-588	6	19
169	Near-IR photoactivation using mesoporous silica-coated NaYF4:Yb,Er/Tm upconversion nanoparticles. *Nature Protocols*, **2016**, 11, 688-713	18.8	140
168	Depositing CdS nanoclusters on carbon-modified NaYF4:Yb,Tm upconversion nanocrystals for NIR-light enhanced photocatalysis. *Nanoscale*, **2016**, 8, 553-62	7.7	78
167	Real-time modulated nanoparticle separation with an ultra-large dynamic range. *Lab on A Chip*, **2016**, 16, 75-85	7.2	52

166	Advancements in microfluidics for nanoparticle separation. *Lab on A Chip*, **2016**, 17, 11-33	7.2	121
165	In vivo Biocompatibility, Biodistribution and Therapeutic Efficiency of Titania Coated Upconversion Nanoparticles for Photodynamic Therapy of Solid Oral Cancers. *Theranostics*, **2016**, 6, 1844-65	12.1	68
164	Small Upconverting Fluorescent Nanoparticles for Biosensing and Bioimaging. *Advanced Optical Materials*, **2016**, 4, 984-997	8.1	69
163	Quasi-Continuous Wave Near-Infrared Excitation of Upconversion Nanoparticles for Optogenetic Manipulation of C. elegans. *Small*, **2016**, 12, 1732-43	11	69
162	Influence of SiO2 layer on the plasmon quenched upconversion luminescence emission of core-shell NaYF4:Yb,Er@SiO2@Ag nanocomposites. *Materials Research Bulletin*, **2016**, 83, 515-521	5.1	18
161	Engineering of Lanthanide-Doped Upconversion Nanoparticles for Optical Encoding. *Small*, **2016**, 12, 836-52	11	86
160	Ag-decorated Fe3O4@SiO2 core-shell nanospheres: Seed-mediated growth preparation and their antibacterial activity during the consecutive recycling. *Journal of Alloys and Compounds*, **2016**, 676, 113-119	3.7	15
159	Titania coated upconversion nanoparticles for near-infrared light triggered photodynamic therapy. *ACS Nano*, **2015**, 9, 191-205	16.7	280
158	Synthesis of Nd3+/Yb3+ sensitized upconversion core–shell nanocrystals with optimized hosts and doping concentrations. *RSC Advances*, **2015**, 5, 62899-62904	3.7	12
157	Sustained release of hydrophobic drugs by the microfluidic assembly of multistage microgel/poly (lactic-co-glycolic acid) nanoparticle composites. *Biomicrofluidics*, **2015**, 9, 052601	3.2	29
156	Mesoporous silica-coated upconversion nanocrystals for near infrared light-triggered control of gene expression in zebrafish. *Nanomedicine*, **2015**, 10, 1051-61	5.6	21
155	Synthesis of dye-loaded NaYF4:Yb, Er superparticles for tunable upconversion emissions. *Micro and Nano Letters*, **2015**, 10, 144-146	0.9	2
154	Numerical Study of Pillar Shapes in Deterministic Lateral Displacement Microfluidic Arrays for Spherical Particle Separation. *IEEE Transactions on Nanobioscience*, **2015**, 14, 660-7	3.4	11
153	Lutetium doping for making big core and core–shell upconversion nanoparticles. *Journal of Materials Chemistry C*, **2015**, 3, 10267-10272	7.1	13
152	A moldable putty containing silk fibroin yolk shell particles for improved hemostasis and bone repair. *Advanced Healthcare Materials*, **2015**, 4, 432-45	10.1	9
151	Oxidative cleavage-based upconversional nanosensor for visual evaluation of antioxidant activity of drugs. *Biosensors and Bioelectronics*, **2015**, 64, 88-93	11.8	20
150	Upconversion nanoparticles as versatile light nanotransducers for photoactivation applications. *Chemical Society Reviews*, **2015**, 44, 1449-78	58.5	302
149	Zinc-Dithizone Complex Engineered Upconverting Nanosensors for the Detection of Hypochlorite in Living Cells. *Small*, **2015**, 11, 4568-75	11	34

148	Luminescent lanthanide nanomaterials: an emerging tool for theranostic applications. *Nanomedicine*, **2015**, 10, 1477-91	5.6	30
147	Core-shell upconversion nanoparticle - semiconductor heterostructures for photodynamic therapy. *Scientific Reports*, **2015**, 5, 8252	4.9	55
146	pH- and redox-responsive self-assembly of amphiphilic hyperbranched poly(amido amine)s for controlled doxorubicin delivery. *Biomaterials Science*, **2015**, 3, 597-607	7.4	19
145	Nanoparticles in photodynamic therapy. *Chemical Reviews*, **2015**, 115, 1990-2042	68.1	1854
144	Independent optical excitation of distinct neural populations. *Nature Methods*, **2014**, 11, 338-46	21.6	1214
143	Self-assembly of LaF3:Yb,Er/Tm nanoplates into colloidal spheres and tailoring their upconversion emissions with fluorescent dyes. *Journal of Materials Chemistry C*, **2014**, 2, 8949-8955	7.1	13
142	Photoactivation of core-shell titania coated upconversion nanoparticles and their effect on cell death. *Journal of Materials Chemistry B*, **2014**, 2, 7017-7026	7.3	65
141	A facile synthetic approach to a biodegradable polydisulfide MRI contrast agent. *Journal of Materials Chemistry B*, **2014**, 2, 5295-5301	7.3	12
140	Near-infrared-light-based nano-platform boosts endosomal escape and controls gene knockdown in vivo. *ACS Nano*, **2014**, 8, 4848-58	16.7	69
139	Photocontrolled nanoparticle delivery systems for biomedical applications. *Accounts of Chemical Research*, **2014**, 47, 3052-60	24.3	165
138	Tuning the energy migration and new insights into the mechanism of upconversion. *Nanoscale*, **2014**, 6, 8439-40	7.7	7
137	DLD pillar shape design for efficient separation of spherical and non-spherical bioparticles. *Lab on A Chip*, **2014**, 14, 4250-62	7.2	73
136	A paradigm shift in the excitation wavelength of upconversion nanoparticles. *Nanoscale*, **2014**, 6, 8441-3	7.7	29
135	Bacterial imaging with photostable upconversion fluorescent nanoparticles. *Biomaterials*, **2014**, 35, 2987-98	13.8	60
134	Non-viral nanocarriers for siRNA delivery in breast cancer. *Journal of Controlled Release*, **2014**, 190, 440-50	11.7	66
133	Encapsulation of Photosensitizers and Upconversion Nanocrystals in Lipid Micelles for Photodynamic Therapy. *Particle and Particle Systems Characterization*, **2014**, 31, 228-235	3.1	34
132	Redox-responsive nanoparticles with Aggregation-Induced Emission (AIE) characteristic for fluorescence imaging. *Macromolecular Bioscience*, **2014**, 14, 1059-66	5.5	13
131	Multi-Functional Fluorescent Upconversion Nanocrystals for Simultaneous Imaging and Delivery of Peptide Toxins. *Key Engineering Materials*, **2014**, 605, 364-367	0.4	

130	pH- and redox-responsive poly(ethylene glycol) and cholesterol-conjugated poly(amido amine)s based micelles for controlled drug delivery. *Macromolecular Bioscience*, **2014**, 14, 347-58	5.5	26
129	Effect of membrane wettability on membrane fouling and chemical durability of SPG membranes used in a microbubble-aerated biofilm reactor. *Separation and Purification Technology*, **2014**, 127, 157-164	3.3	9
128	Water-Soluble Upconversion Nanoparticles by Micellar Route. *BioNanoScience*, **2013**, 3, 208-215	3.4	
127	Design and synthesis of polymer-functionalized NIR fluorescent dyes--magnetic nanoparticles for bioimaging. *ACS Nano*, **2013**, 7, 6796-805	16.7	87
126	Light-activated endosomal escape using upconversion nanoparticles for enhanced delivery of drugs **2013**,		3
125	Upconversion nanoparticle based LRET system for sensitive detection of MRSA DNA sequence. *Biosensors and Bioelectronics*, **2013**, 43, 252-6	11.8	62
124	Near-infrared photothermal activation of microgels incorporating polypyrrole nanotransducers through droplet microfluidics. *Chemical Communications*, **2013**, 49, 7887-9	5.8	30
123	Plasmonic nanohole arrays for monitoring growth of bacteria and antibiotic susceptibility test. *Sensors and Actuators B: Chemical*, **2013**, 182, 576-583	8.5	29
122	A facile synthesis of strong near infrared fluorescent layered double hydroxide nanovehicles with an anticancer drug for tumor optical imaging and therapy. *Nanoscale*, **2013**, 5, 4314-20	7.7	51
121	Rotational separation of non-spherical bioparticles using I-shaped pillar arrays in a microfluidic device. *Nature Communications*, **2013**, 4, 1625	17.4	119
120	Targeting CCL21-folic acid-upconversion nanoparticles conjugates to folate receptor-□expressing tumor cells in an endothelial-tumor cell bilayer model. *Biomaterials*, **2013**, 34, 4860-71	15.6	41
119	Sandwich-structured upconversion nanoparticles with tunable color for multiplexed cell labeling. *Biomaterials*, **2013**, 34, 1722-31	15.6	101
118	Silk fibroin-based complex particles with bioactive encrustation for bone morphogenetic protein 2 delivery. *Biomacromolecules*, **2013**, 14, 4465-74	6.9	37
117	Lanthanide-based upconversion nanoparticles for connexin-targeted imaging in co-cultures. *Methods in Molecular Biology*, **2013**, 1058, 97-107	1.4	2
116	Magnetic resonance imaging (MRI) contrast agents for tumor diagnosis. *Journal of Healthcare Engineering*, **2013**, 4, 23-45	3.7	41
115	Life cycle-dependent cytoskeletal modifications in Plasmodium falciparum infected erythrocytes. *PLoS ONE*, **2013**, 8, e61170	3.7	50
114	Photodynamic inactivation of viruses using upconversion nanoparticles. *Biomaterials*, **2012**, 33, 1912-20	15.6	147
113	Upconversion nanoparticles for sensitive and in-depth detection of Cu2+ ions. *Nanoscale*, **2012**, 4, 6065-71	7.7	108

112	Tuning the autophagy-inducing activity of lanthanide-based nanocrystals through specific surface-coating peptides. *Nature Materials*, **2012**, 11, 817-26	27	140
111	In vivo photodynamic therapy using upconversion nanoparticles as remote-controlled nanotransducers. *Nature Medicine*, **2012**, 18, 1580-5	50.5	1131
110	Gold nanoshell coated NaYF4 nanoparticles for simultaneously enhanced upconversion fluorescence and darkfield imaging. *Journal of Materials Chemistry*, **2012**, 22, 960-965		162
109	Fouling and structural changes of Shirasu porous glass (SPG) membrane used in aerobic wastewater treatment process for microbubble aeration. *Journal of Membrane Science*, **2012**, 421-422, 225-231	9.6	11
108	Plasmon enhanced upconversion luminescence of NaYF4:Yb,Er@SiO2@Ag core-shell nanocomposites for cell imaging. *Nanoscale*, **2012**, 4, 5132-7	7.7	219
107	Highly sensitive multiple microRNA detection based on fluorescence quenching of graphene oxide and isothermal strand-displacement polymerase reaction. *Analytical Chemistry*, **2012**, 84, 4587-93	7.8	228
106	Remote activation of biomolecules in deep tissues using near-infrared-to-UV upconversion nanotransducers. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 8483-8	11.5	299
105	An anti-clogging 3D porous membrane for sorting and patterning of micro-entities. *Advanced Healthcare Materials*, **2012**, 1, 354-9	10.1	3
104	Facile preparation of hydrophilic sodium yttrium fluoride nanorods using hydrophobic nanospheres as precursor. *Journal of Materials Research*, **2012**, 27, 2101-2105	2.5	3
103	Rare Earth Nanomaterials in Fluorescence Microscopy **2012**, 83-106		0
102	Upconversion fluorescent nanoparticles as a potential tool for in-depth imaging. *Nanotechnology*, **2011**, 22, 395101	3.4	41
101	LRET-based biodetection of DNA release in live cells using surface-modified upconverting fluorescent nanoparticles. *Langmuir*, **2011**, 27, 2854-60	4	57
100	Tuning of the structure and emission spectra of upconversion nanocrystals by alkali ion doping. *Langmuir*, **2011**, 27, 13236-41	4	153
99	Applications of upconversion nanoparticles in imaging, detection and therapy. *Nanomedicine*, **2011**, 6, 1273-88	5.6	100
98	Synthesis of hollow and mesoporous polycaprolactone nanocapsules. *Nanoscale*, **2011**, 3, 2215-9	7.7	23
97	In vitro and in vivo evaluation of folate receptor-targeting amphiphilic copolymer-modified liposomes loaded with docetaxel. *International Journal of Nanomedicine*, **2011**, 6, 1167-84	7.3	30
96	Simultaneous gene delivery and tracking of cells using fluorescent upconversion nanoparticles for cell therapy. *Materials Research Society Symposia Proceedings*, **2011**, 1355, 1		
95	Optical imaging-guided cancer therapy with fluorescent nanoparticles. *Journal of the Royal Society Interface*, **2010**, 7, 3-18	4.1	171

94	Upconversion nanoparticle-based FRET system for study of siRNA in live cells. *Langmuir*, **2010**, 26, 6689-94	4	160
93	Facile synthesis of lanthanide nanoparticles with paramagnetic, down- and up-conversion properties. *Nanoscale*, **2010**, 2, 1240-3	7.7	23
92	Imaging gap junctions with silica-coated upconversion nanoparticles. *Medical and Biological Engineering and Computing*, **2010**, 48, 1033-41	3.1	18
91	Upconversion: road to El Dorado of the fluorescence world. *Luminescence*, **2010**, 25, 290-3	2.5	33
90	Wall effects in continuous microfluidic magneto-affinity cell separation. *Biotechnology and Bioengineering*, **2010**, 106, 68-75	4.9	4
89	Singlet oxygen-induced apoptosis of cancer cells using upconversion fluorescent nanoparticles as a carrier of photosensitizer. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2010**, 6, 486-95	6	190
88	Small upconverting fluorescent nanoparticles for biomedical applications. *Small*, **2010**, 6, 2781-95	11	457
87	Natural-Synthetic Polyblend Nanofibers for Biomedical Applications. *Advanced Materials*, **2009**, 21, 2792-2797	24	126
86	Fabrication of three-dimensional hemispherical structures using photolithography. *Microfluidics and Nanofluidics*, **2009**, 7, 721-726	2.8	5
85	Influence of vacuum on the formation of porous polymer films via water droplets templating. *Colloid and Polymer Science*, **2009**, 287, 29-36	2.4	14
84	Investigation of polymeric amphiphilic nanoparticles as antitumor drug carriers. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 991-9	4.5	20
83	Mesoporous-silica-coated up-conversion fluorescent nanoparticles for photodynamic therapy. *Small*, **2009**, 5, 2285-90	11	534
82	Tracking transplanted cells in live animal using upconversion fluorescent nanoparticles. *Biomaterials*, **2009**, 30, 5104-13	15.6	232
81	Hybrid lanthanide nanoparticles with paramagnetic shell coated on upconversion fluorescent nanocrystals. *Langmuir*, **2009**, 25, 12015-8	4	80
80	Use of the upside-down method to prepare porous polymer films with tunable surface pore sizes. *Langmuir*, **2009**, 25, 51-4	4	8
79	NIR-to-visible upconversion nanoparticles for fluorescent labeling and targeted delivery of siRNA. *Nanotechnology*, **2009**, 20, 155101	3.4	126
78	Magnetic nanoparticle migration in microfluidic two-phase flow. *Journal of Applied Physics*, **2009**, 105, 123909	2.5	8
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