

Yong Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nanoparticles in photodynamic therapy. <i>Chemical Reviews</i> , 2015 , 115, 1990-2042	68.1	1854
254	Independent optical excitation of distinct neural populations. <i>Nature Methods</i> , 2014 , 11, 338-46	21.6	1214
253	In vivo photodynamic therapy using upconversion nanoparticles as remote-controlled nanotransducers. <i>Nature Medicine</i> , 2012 , 18, 1580-5	50.5	1131
252	Surface modification of superparamagnetic magnetite nanoparticles and their intracellular uptake. <i>Biomaterials</i> , 2002 , 23, 1553-61	15.6	1081
251	Nanoparticles in photodynamic therapy: an emerging paradigm. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 1627-37	18.5	924
250	Upconversion fluorescence imaging of cells and small animals using lanthanide doped nanocrystals. <i>Biomaterials</i> , 2008 , 29, 937-43	15.6	857
249	Multicolor Core/Shell-Structured Upconversion Fluorescent Nanoparticles. <i>Advanced Materials</i> , 2008 , 20, 4765-4769	24	783
248	An efficient and user-friendly method for the synthesis of hexagonal-phase NaYF(4):Yb, Er/Tm nanocrystals with controllable shape and upconversion fluorescence. <i>Nanotechnology</i> , 2008 , 19, 345606 ³⁻⁴		590
247	Mesoporous-silica-coated up-conversion fluorescent nanoparticles for photodynamic therapy. <i>Small</i> , 2009 , 5, 2285-90	11	534
246	Luminescent nanomaterials for biological labelling. <i>Nanotechnology</i> , 2006 , 17, R1-R13	3.4	474
245	Small upconverting fluorescent nanoparticles for biomedical applications. <i>Small</i> , 2010 , 6, 2781-95	11	457
244	Biocompatibility of silica coated NaYF(4) upconversion fluorescent nanocrystals. <i>Biomaterials</i> , 2008 , 29, 4122-8	15.6	428
243	Monodisperse silica-coated polyvinylpyrrolidone/NaYF(4) nanocrystals with multicolor upconversion fluorescence emission. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7732-5	16.4	425
242	Synthesis of hexagonal-phase core-shell NaYF ₄ nanocrystals with tunable upconversion fluorescence. <i>Langmuir</i> , 2008 , 24, 12123-5	4	342
241	Synthesis and characterization of macroporous chitosan/calcium phosphate composite scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 304-12		326
240	Upconversion nanoparticles as versatile light nanotransducers for photoactivation applications. <i>Chemical Society Reviews</i> , 2015 , 44, 1449-78	58.5	302
239	Remote activation of biomolecules in deep tissues using near-infrared-to-UV upconversion nanotransducers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8483-8	11.5	299

238	Boosting lithium storage in covalent organic framework via activation of 14-electron redox chemistry. <i>Nature Communications</i> , 2018 , 9, 576	17.4	288
237	Titania coated upconversion nanoparticles for near-infrared light triggered photodynamic therapy. <i>ACS Nano</i> , 2015 , 9, 191-205	16.7	280
236	Synthesis of polyethylenimine/NaYF ₄ nanoparticles with upconversion fluorescence. <i>Nanotechnology</i> , 2006 , 17, 5786-5791	3.4	269
235	Quantum-dot based nanoparticles for targeted silencing of HER2/neu gene via RNA interference. <i>Biomaterials</i> , 2007 , 28, 1565-71	15.6	258
234	Tracking transplanted cells in live animal using upconversion fluorescent nanoparticles. <i>Biomaterials</i> , 2009 , 30, 5104-13	15.6	232
233	Highly sensitive multiple microRNA detection based on fluorescence quenching of graphene oxide and isothermal strand-displacement polymerase reaction. <i>Analytical Chemistry</i> , 2012 , 84, 4587-93	7.8	228
232	Bead-based microfluidic immunoassays: the next generation. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1197-204	11.8	220
231	Plasmon enhanced upconversion luminescence of NaYF ₄ :Yb,Er@SiO ₂ @Ag core-shell nanocomposites for cell imaging. <i>Nanoscale</i> , 2012 , 4, 5132-7	7.7	219
230	Calcium phosphate/chitosan composite scaffolds for controlled in vitro antibiotic drug release. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 62, 378-86		200
229	Recent Development of Metallic (1T) Phase of Molybdenum Disulfide for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1703482	21.8	197
228	Singlet oxygen-induced apoptosis of cancer cells using upconversion fluorescent nanoparticles as a carrier of photosensitizer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010 , 6, 486-95	6	190
227	Three-dimensional macroporous calcium phosphate bioceramics with nested chitosan sponges for load-bearing bone implants. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 1-8		185
226	Optical imaging-guided cancer therapy with fluorescent nanoparticles. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 3-18	4.1	171
225	Photocontrolled nanoparticle delivery systems for biomedical applications. <i>Accounts of Chemical Research</i> , 2014 , 47, 3052-60	24.3	165
224	Gold nanoshell coated NaYF ₄ nanoparticles for simultaneously enhanced upconversion fluorescence and darkfield imaging. <i>Journal of Materials Chemistry</i> , 2012 , 22, 960-965		162
223	Calcium phosphate-chitosan composite scaffolds for bone tissue engineering. <i>Tissue Engineering</i> , 2003 , 9, 337-45		162
222	Upconversion nanoparticle-based FRET system for study of siRNA in live cells. <i>Langmuir</i> , 2010 , 26, 6689-94		160
221	Tuning of the structure and emission spectra of upconversion nanocrystals by alkali ion doping. <i>Langmuir</i> , 2011 , 27, 13236-41	4	153

220	Photodynamic inactivation of viruses using upconversion nanoparticles. <i>Biomaterials</i> , 2012 , 33, 1912-20	15.6	147
219	Preparation of porous materials with ordered hole structure. <i>Advances in Colloid and Interface Science</i> , 2006 , 121, 9-23	14.3	142
218	Near-IR photoactivation using mesoporous silica-coated NaYF ₄ :Yb,Er/Tm upconversion nanoparticles. <i>Nature Protocols</i> , 2016 , 11, 688-713	18.8	140
217	Tuning the autophagy-inducing activity of lanthanide-based nanocrystals through specific surface-coating peptides. <i>Nature Materials</i> , 2012 , 11, 817-26	27	140
216	Versatile design and synthesis of nano-barcodes. <i>Chemical Society Reviews</i> , 2017 , 46, 7054-7093	58.5	130
215	Protein and cell micropatterning and its integration with micro/nanoparticles assembly. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 775-88	11.8	130
214	Upconversion Nanoprobes: Recent Advances in Sensing Applications. <i>Analytical Chemistry</i> , 2019 , 91, 548-558	7.58	128
213	Natural-Synthetic Polyblend Nanofibers for Biomedical Applications. <i>Advanced Materials</i> , 2009 , 21, 2792-2797	2.797	126
212	NIR-to-visible upconversion nanoparticles for fluorescent labeling and targeted delivery of siRNA. <i>Nanotechnology</i> , 2009 , 20, 155101	3.4	126
211	Micropatterning of Proteins on 3D Porous Polymer Film Fabricated by Using the Breath-Figure Method. <i>Advanced Materials</i> , 2007 , 19, 913-916	24	123
210	One-pot synthesis of chitosan/LaF ₃ :Eu ³⁺ +nanocrystals for bio-applications. <i>Nanotechnology</i> , 2006 , 17, 1527-1532	3.4	123
209	Smartphone based visual and quantitative assays on upconversional paper sensor. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 427-32	11.8	121
208	Advancements in microfluidics for nanoparticle separation. <i>Lab on A Chip</i> , 2016 , 17, 11-33	7.2	121
207	Surface modification of monodisperse magnetite nanoparticles for improved intracellular uptake to breast cancer cells. <i>Journal of Colloid and Interface Science</i> , 2005 , 283, 352-7	9.3	120
206	Rotational separation of non-spherical bioparticles using I-shaped pillar arrays in a microfluidic device. <i>Nature Communications</i> , 2013 , 4, 1625	17.4	119
205	Facile synthesis of water-soluble LaF ₃ : Ln ³⁺ nanocrystals. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1031		116
204	Recent Progress of Rare-Earth Doped Upconversion Nanoparticles: Synthesis, Optimization, and Applications. <i>Advanced Science</i> , 2019 , 6, 1901358	13.6	115
203	Upconversion nanoparticles for sensitive and in-depth detection of Cu ²⁺ ions. <i>Nanoscale</i> , 2012 , 4, 6065-717	7.17	108

202	Exfoliated Triazine-Based Covalent Organic Nanosheets with Multielectron Redox for High-Performance Lithium Organic Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1801010	21.8	102
201	Sandwich-structured upconversion nanoparticles with tunable color for multiplexed cell labeling. <i>Biomaterials</i> , 2013 , 34, 1722-31	15.6	101
200	Applications of upconversion nanoparticles in imaging, detection and therapy. <i>Nanomedicine</i> , 2011 , 6, 1273-88	5.6	100
199	Multicolour PEI/NaGdF ₄ :Ce ³⁺ ,Ln ³⁺ nanocrystals by single-wavelength excitation. <i>Nanotechnology</i> , 2007 , 18, 025701	3.4	99
198	Tumor Targeting Strategies of Smart Fluorescent Nanoparticles and Their Applications in Cancer Diagnosis and Treatment. <i>Advanced Materials</i> , 2019 , 31, e1902409	24	94
197	In vivo wireless photonic photodynamic therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1469-1474	11.5	91
196	Encapsulation of quantum nanodots in polystyrene and silica micro-/nanoparticles. <i>Langmuir</i> , 2004 , 20, 6071-3	4	88
195	Design and synthesis of polymer-functionalized NIR fluorescent dyes--magnetic nanoparticles for bioimaging. <i>ACS Nano</i> , 2013 , 7, 6796-805	16.7	87
194	Engineering of Lanthanide-Doped Upconversion Nanoparticles for Optical Encoding. <i>Small</i> , 2016 , 12, 836-52	11	86
193	Monodisperse Silica-Coated Polyvinylpyrrolidone/NaYF ₄ Nanocrystals with Multicolor Upconversion Fluorescence Emission. <i>Angewandte Chemie</i> , 2006 , 118, 7896-7899	3.6	85
192	Hybrid lanthanide nanoparticles with paramagnetic shell coated on upconversion fluorescent nanocrystals. <i>Langmuir</i> , 2009 , 25, 12015-8	4	80
191	Multifunctional Quantum-Dot-Based Magnetic Chitosan Nanobeads. <i>Advanced Materials</i> , 2005 , 17, 2375-2380	23.80	80
190	Depositing CdS nanoclusters on carbon-modified NaYF ₄ :Yb,Tm upconversion nanocrystals for NIR-light enhanced photocatalysis. <i>Nanoscale</i> , 2016 , 8, 553-62	7.7	78
189	Surface modification of gold and quantum dot nanoparticles with chitosan for bioapplications. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 75, 56-62	5.4	78
188	Self-assembled coatings on individual monodisperse magnetite nanoparticles for efficient intracellular uptake. <i>Biomedical Microdevices</i> , 2004 , 6, 33-40	3.7	77
187	Ultrafine biocompatible chitosan nanoparticles encapsulating multi-coloured quantum dots for bioapplications. <i>Journal of Colloid and Interface Science</i> , 2007 , 310, 464-70	9.3	74
186	Cell growth and function on calcium phosphate reinforced chitosan scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 255-60	4.5	74
185	DLD pillar shape design for efficient separation of spherical and non-spherical bioparticles. <i>Lab on A Chip</i> , 2014 , 14, 4250-62	7.2	73

184	Strong Coupling of MoS Nanosheets and Nitrogen-Doped Graphene for High-Performance Pseudocapacitance Lithium Storage. <i>Small</i> , 2018 , 14, e1704410	11	72
183	Luminescence behavior of Eu ³⁺ doped LaF ₃ nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 2455-9	4.4	71
182	Near-infrared-light-based nano-platform boosts endosomal escape and controls gene knockdown in vivo. <i>ACS Nano</i> , 2014 , 8, 4848-58	16.7	69
181	Small Upconverting Fluorescent Nanoparticles for Biosensing and Bioimaging. <i>Advanced Optical Materials</i> , 2016 , 4, 984-997	8.1	69
180	Quasi-Continuous Wave Near-Infrared Excitation of Upconversion Nanoparticles for Optogenetic Manipulation of <i>C. elegans</i> . <i>Small</i> , 2016 , 12, 1732-43	11	69
179	In vivo Biocompatibility, Biodistribution and Therapeutic Efficiency of Titania Coated Upconversion Nanoparticles for Photodynamic Therapy of Solid Oral Cancers. <i>Theranostics</i> , 2016 , 6, 1844-65	12.1	68
178	Non-viral nanocarriers for siRNA delivery in breast cancer. <i>Journal of Controlled Release</i> , 2014 , 190, 440-50	10.7	66
177	Transplantation of nanoparticle transfected skeletal myoblasts overexpressing vascular endothelial growth factor-165 for cardiac repair. <i>Circulation</i> , 2007 , 116, 1113-20	16.7	66
176	Near-Infrared Excited Orthogonal Emissive Upconversion Nanoparticles for Imaging-Guided On-Demand Therapy. <i>ACS Nano</i> , 2019 , 13, 10405-10418	16.7	65
175	Photoactivation of core-shell titania coated upconversion nanoparticles and their effect on cell death. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7017-7026	7.3	65
174	Asymmetrical Deterministic Lateral Displacement Gaps for Dual Functions of Enhanced Separation and Throughput of Red Blood Cells. <i>Scientific Reports</i> , 2016 , 6, 22934	4.9	63
173	Upconversion nanoparticle based LRET system for sensitive detection of MRSA DNA sequence. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 252-6	11.8	62
172	Synthesis and characterization of monodisperse chitosan nanoparticles with embedded quantum dots. <i>Nanotechnology</i> , 2006 , 17, 140-144	3.4	61
171	Bacterial imaging with photostable upconversion fluorescent nanoparticles. <i>Biomaterials</i> , 2014 , 35, 2987-98	11.9	60
170	Crystallization and microstructure analysis of calcium phosphate-based glass ceramics for biomedical applications. <i>Journal of Non-Crystalline Solids</i> , 2000 , 272, 14-21	3.9	60
169	Upconversion superballs for programmable photoactivation of therapeutics. <i>Nature Communications</i> , 2019 , 10, 4586	17.4	58
168	Phase angle encoded upconversion luminescent nanocrystals for multiplexing applications. <i>Nanoscale</i> , 2017 , 9, 1676-1686	7.7	57
167	Nanotechnology: a promising method for oral cancer detection and diagnosis. <i>Journal of Nanobiotechnology</i> , 2018 , 16, 52	9.4	57

166	LRET-based biodetection of DNA release in live cells using surface-modified upconverting fluorescent nanoparticles. <i>Langmuir</i> , 2011 , 27, 2854-60	4	57
165	Core-shell upconversion nanoparticle - semiconductor heterostructures for photodynamic therapy. <i>Scientific Reports</i> , 2015 , 5, 8252	4.9	55
164	Microstructural and mechanical characterization of chitosan scaffolds reinforced by calcium phosphates. <i>Journal of Non-Crystalline Solids</i> , 2001 , 282, 159-164	3.9	55
163	Real-time modulated nanoparticle separation with an ultra-large dynamic range. <i>Lab on A Chip</i> , 2016 , 16, 75-85	7.2	52
162	A Review on Deterministic Lateral Displacement for Particle Separation and Detection. <i>Nano-Micro Letters</i> , 2019 , 11, 77	19.5	52
161	Size-selective QD@MOF core-shell nanocomposites for the highly sensitive monitoring of oxidase activities. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 339-344	11.8	51
160	A facile synthesis of strong near infrared fluorescent layered double hydroxide nanovehicles with an anticancer drug for tumor optical imaging and therapy. <i>Nanoscale</i> , 2013 , 5, 4314-20	7.7	51
159	Life cycle-dependent cytoskeletal modifications in Plasmodium falciparum infected erythrocytes. <i>PLoS ONE</i> , 2013 , 8, e61170	3.7	50
158	Manipulating energy migration within single lanthanide activator for switchable upconversion emissions towards bidirectional photoactivation. <i>Nature Communications</i> , 2019 , 10, 4416	17.4	49
157	Porous Polymer Films with Size-Tunable Surface Pores. <i>Chemistry of Materials</i> , 2007 , 19, 2581-2584	9.6	46
156	Microbead Patterning on Porous Films with Ordered Arrays of Pores. <i>Advanced Materials</i> , 2006 , 18, 3094-3098	10.8	46
155	Assembly of polystyrene microspheres and its application in cell micropatterning. <i>Biomaterials</i> , 2007 , 28, 2328-38	15.6	43
154	Targeting CCL21-folic acid-upconversion nanoparticles conjugates to folate receptor-expressing tumor cells in an endothelial-tumor cell bilayer model. <i>Biomaterials</i> , 2013 , 34, 4860-71	15.6	41
153	Magnetic resonance imaging (MRI) contrast agents for tumor diagnosis. <i>Journal of Healthcare Engineering</i> , 2013 , 4, 23-45	3.7	41
152	Upconversion fluorescent nanoparticles as a potential tool for in-depth imaging. <i>Nanotechnology</i> , 2011 , 22, 395101	3.4	41
151	A two-photon fluorescent turn-on probe for imaging of SO ₂ derivatives in living cells and tissues. <i>Analytica Chimica Acta</i> , 2016 , 937, 136-42	6.6	39
150	An Excitation Navigating Energy Migration of Lanthanide Ions in Upconversion Nanoparticles. <i>Advanced Materials</i> , 2020 , 32, e1906225	24	38
149	Silk fibroin-based complex particles with bioactive encrustation for bone morphogenetic protein 2 delivery. <i>Biomacromolecules</i> , 2013 , 14, 4465-74	6.9	37

148	Protein Micropatterning via Self-Assembly of Nanoparticles. <i>Advanced Materials</i> , 2005 , 17, 150-153	24	35
147	Zinc-Dithizone Complex Engineered Upconverting Nanosensors for the Detection of Hypochlorite in Living Cells. <i>Small</i> , 2015 , 11, 4568-75	11	34
146	Encapsulation of Photosensitizers and Upconversion Nanocrystals in Lipid Micelles for Photodynamic Therapy. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 228-235	3.1	34
145	Multicolor polystyrene nanospheres tagged with up-conversion fluorescent nanocrystals. <i>Nanotechnology</i> , 2008 , 19, 255601	3.4	34
144	Nanoelectrode design from microminiaturized honeycomb monolith with ultrathin and stiff nanoscaffold for high-energy micro-supercapacitors. <i>Nature Communications</i> , 2020 , 11, 299	17.4	33
143	Upconversion Nanoparticles-Encoded Hydrogel Microbeads-Based Multiplexed Protein Detection. <i>Nano-Micro Letters</i> , 2018 , 10, 31	19.5	33
142	Upconversion: road to El Dorado of the fluorescence world. <i>Luminescence</i> , 2010 , 25, 290-3	2.5	33
141	A protected excitation-energy reservoir for efficient upconversion luminescence. <i>Nanoscale</i> , 2017 , 10, 250-259	7.7	33
140	G-Quadruplex/Porphyrin Composite Photosensitizer: A Facile Way to Promote Absorption Redshift and Photodynamic Therapy Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13158-13167	9.5	31
139	Fluorescent label-free quantitative detection of nano-sized bioparticles using a pillar array. <i>Nature Communications</i> , 2018 , 9, 1254	17.4	31
138	Near-infrared photothermal activation of microgels incorporating polypyrrole nanotransducers through droplet microfluidics. <i>Chemical Communications</i> , 2013 , 49, 7887-9	5.8	30
137	Luminescent lanthanide nanomaterials: an emerging tool for theranostic applications. <i>Nanomedicine</i> , 2015 , 10, 1477-91	5.6	30
136	In vitro and in vivo evaluation of folate receptor-targeting amphiphilic copolymer-modified liposomes loaded with docetaxel. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1167-84	7.3	30
135	Purification and N-terminal sequence of a serine proteinase-like protein (BMK-CBP) from the venom of the Chinese scorpion (<i>Buthus martensii</i> Karsch). <i>Toxicon</i> , 2008 , 52, 348-53	2.8	30
134	Sustained release of hydrophobic drugs by the microfluidic assembly of multistage microgel/poly (lactic-co-glycolic acid) nanoparticle composites. <i>Biomicrofluidics</i> , 2015 , 9, 052601	3.2	29
133	A paradigm shift in the excitation wavelength of upconversion nanoparticles. <i>Nanoscale</i> , 2014 , 6, 8441-37.7		29
132	Plasmonic nanohole arrays for monitoring growth of bacteria and antibiotic susceptibility test. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 576-583	8.5	29
131	Real-Time Visualization of Cysteine Metabolism in Living Cells with Ratiometric Fluorescence Probes. <i>Analytical Chemistry</i> , 2018 , 90, 2686-2691	7.8	28

130	Immobilization of polydiacetylene onto silica microbeads for colorimetric detection. <i>Journal of Materials Chemistry</i> , 2006 , 16, 546-549		28
129	Fluorescent microbeads for point-of-care testing: a review. <i>Mikrochimica Acta</i> , 2019 , 186, 361	5.8	26
128	pH- and redox-responsive poly(ethylene glycol) and cholesterol-conjugated poly(amido amine)s based micelles for controlled drug delivery. <i>Macromolecular Bioscience</i> , 2014 , 14, 347-58	5.5	26
127	Exploring Heterostructured Upconversion Nanoparticles: From Rational Engineering to Diverse Applications. <i>ACS Nano</i> , 2021 , 15, 3709-3735	16.7	26
126	A Flexi-PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy. <i>Advanced Materials</i> , 2020 , 32, e2001459	24	25
125	Lanthanides-doped near-infrared active upconversion nanocrystals: Upconversion mechanisms and synthesis. <i>Coordination Chemistry Reviews</i> , 2021 , 438, 213870	23.2	25
124	Multi-functional chitosan nanoparticles encapsulating quantum dots and Gd-DTPA as imaging probes for bio-applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2389-93	1.3	24
123	Photon Upconversion Kinetic Nanosystems and Their Optical Response. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700144	8.3	24
122	Heavy-atom-free charge transfer photosensitizers: Tuning the efficiency of BODIPY in singlet oxygen generation via intramolecular electron donor-acceptor interaction. <i>Dyes and Pigments</i> , 2019 , 164, 139-147	4.6	23
121	Synthesis of hollow and mesoporous polycaprolactone nanocapsules. <i>Nanoscale</i> , 2011 , 3, 2215-9	7.7	23
120	Facile synthesis of lanthanide nanoparticles with paramagnetic, down- and up-conversion properties. <i>Nanoscale</i> , 2010 , 2, 1240-3	7.7	23
119	Modularly Assembled Upconversion Nanoparticles for Orthogonally Controlled Cell Imaging and Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12549-12556	9.5	22
118	The synthesis, characterization of picolinic acid:Eu ³⁺ + complex in SiO ₂ xerogels and energy transfer from picolinic acid to Eu ³⁺ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 47, 23-27	3.1	22
117	NIR-excitable heterostructured upconversion perovskite nanodots with improved stability. <i>Nature Communications</i> , 2021 , 12, 219	17.4	22
116	Mesoporous silica-coated upconversion nanocrystals for near infrared light-triggered control of gene expression in zebrafish. <i>Nanomedicine</i> , 2015 , 10, 1051-61	5.6	21
115	Elimination of concentration dependent luminescence quenching in surface protected upconversion nanoparticles. <i>Nanoscale</i> , 2018 , 10, 16447-16454	7.7	21
114	Metal-enhanced upconversion luminescence of NaYF ₄ :Yb/Er with Ag nanoparticles. <i>Materials Research Bulletin</i> , 2017 , 88, 182-187	5.1	20
113	Oxidative cleavage-based upconversion nanosensor for visual evaluation of antioxidant activity of drugs. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 88-93	11.8	20

112	Upconversional Nanoprobes with Highly Efficient Energy Transfer for Ultrasensitive Detection of Alkaline Phosphatase. <i>ACS Sensors</i> , 2019 , 4, 2864-2868	9.2	20
111	Investigation of polymeric amphiphilic nanoparticles as antitumor drug carriers. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 991-9	4.5	20
110	Construction of a near-infrared responsive upconversion nanoplatfrom against hypoxic tumors via NO-enhanced photodynamic therapy. <i>Nanoscale</i> , 2020 , 12, 7875-7887	7.7	20
109	Novel nanostructures for efficient photon upconversion and high-efficiency photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 155, 446-453	6.4	19
108	Designing idiosyncratic hmPCL-siRNA nanoformulated capsules for silencing and cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 579-588	6	19
107	pH- and redox-responsive self-assembly of amphiphilic hyperbranched poly(amido amine)s for controlled doxorubicin delivery. <i>Biomaterials Science</i> , 2015 , 3, 597-607	7.4	19
106	Nonviral vector-based gene transfection of primary human skeletal myoblasts. <i>Experimental Biology and Medicine</i> , 2007 , 232, 1477-87	3.7	19
105	pH-responsive and self-targeting assembly from hyaluronic acid-based conjugate toward all-in-one chemo-photodynamic therapy. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 30-39	9.3	18
104	Imaging gap junctions with silica-coated upconversion nanoparticles. <i>Medical and Biological Engineering and Computing</i> , 2010 , 48, 1033-41	3.1	18
103	Nanoparticle-assisted micropatterning of active proteins on solid substrate. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1638-43	11.8	18
102	Influence of SiO ₂ layer on the plasmon quenched upconversion luminescence emission of core-shell NaYF ₄ :Yb,Er@SiO ₂ @Ag nanocomposites. <i>Materials Research Bulletin</i> , 2016 , 83, 515-521	5.1	18
101	Single-bead-based immunofluorescence assay for snake venom detection. <i>Biotechnology Progress</i> , 2008 , 24, 245-9	2.8	17
100	Micropatterning of polystyrene nanoparticles and its bioapplications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 46, 255-60	6	17
99	White-light emissive upconversion nanoparticles for visual and colorimetric determination of the pesticide thiram. <i>Mikrochimica Acta</i> , 2019 , 186, 106	5.8	17
98	Comparative investigation of the optical spectroscopic and thermal effect in Nd-doped nanoparticles. <i>Nanoscale</i> , 2019 , 11, 10220-10228	7.7	16
97	Multi-functional nanoparticles for cancer therapy. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 131-133	7.1	16
96	Protein micropatterning using surfaces modified by self-assembled polystyrene microspheres. <i>Langmuir</i> , 2005 , 21, 5233-6	4	16
95	Orthogonal Emissive Upconversion Nanoparticles: Material Design and Applications. <i>Small</i> , 2021 , 17, e2004552	11	16

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