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Recent advances in the chemistry of lanthanide-doped upconversion nanocrystals

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2269	Temporal dynamics of IR-to-visible up-conversion in LiNbO ₃ :Er ³⁺ /Yb ³⁺ : a path to phosphors with tunable chromaticity. 2012 , 2, 1529		
2268	Upconversion-Triggered Charge Separation in Polymer Semiconductors.		
2267	Beyond the Pipeline: Assessing the Efficiency Limits of Advanced Technologies for Solar Water Disinfection.		
2266	Upconversion emission tuning from green to red in Yb ³⁺ /Ho ³⁺ -codoped NaYF ₄ nanocrystals by tridoping with Ce ³⁺ ions. 2009 , 20, 385704		160
2265	ChemInform Abstract: Recent Advances in the Chemistry of Lanthanide-Doped Upconversion Nanocrystals. 2009 , 40, no		
2264	Sensitized Ce(3+) and Gd(3+) ultraviolet emissions by Tm(3+) in colloidal LiYF(4) nanocrystals. 2009 , 15, 9660-3		55
2263	Ultrasensitive and Selective Colorimetric DNA Detection by Nicking Endonuclease Assisted Nanoparticle Amplification. 2009 , 121, 6981-6984		28
2262	Ultrasensitive and selective colorimetric DNA detection by nicking endonuclease assisted nanoparticle amplification. 2009 , 48, 6849-52		355
2261	Rare earth oxide nanocrystals induce autophagy in HeLa cells. 2009 , 5, 2784-7		87
2260	Synthesis, characterization, and in vivo targeted imaging of amine-functionalized rare-earth up-converting nanophosphors. 2009 , 30, 5592-600		270
2259	Biomolecule labeling and imaging with a new fluorenyl two-photon fluorescent probe. 2009 , 20, 1992-2000		34
2258	Rare Earth Fluorides Nanowires/Nanorods Derived from Hydroxides: Hydrothermal Synthesis and Luminescence Properties. 2009 , 9, 4752-4758		82
2257	Monodisperse upconverting nanocrystals by microwave-assisted synthesis. 2009 , 3, 3804-8		177
2256	Ultraviolet and violet upconversion fluorescence of europium (III) doped in YF(3) nanocrystals. 2009 , 34, 2781-3		39
2255	Lanthanide-based luminescent hybrid materials. 2009 , 109, 4283-374		2680
2254	Optically active uniform potassium and lithium rare earth fluoride nanocrystals derived from metal trifluoroacetate precursors. 2009 , 8574-81		103
2253	Hard proof of the NaYF(4)/NaGdF(4) nanocrystal core/shell structure. 2009 , 131, 14644-5		226

2252	Critical shell thickness and emission enhancement of NaYF ₄ :Yb,Er/NaYF ₄ /silica core/shell/shell nanoparticles. 2009 , 24, 3559-3568	30
2251	Multiplex single-nucleotide polymorphism typing by nanoparticle-coupled DNA-templated reactions. 2009 , 131, 11668-9	74
2250	High contrast upconversion luminescence targeted imaging in vivo using peptide-labeled nanophosphors. 2009 , 81, 8687-94	354
2249	Upconversion luminescence of monodisperse CaF ₂ :Yb(3+)/Er(3+) nanocrystals. 2009 , 131, 14200-1	377
2248	Formation of Hollow Upconversion Rare-Earth Fluoride Nanospheres: Nanoscale Kirkendall Effect During Ion Exchange. 2009 , 21, 5237-5243	128
2247	Near-infrared luminescent lanthanide MOF barcodes. 2009 , 131, 18069-71	410
2246	Immunoassay of goat antihuman immunoglobulin G antibody based on luminescence resonance energy transfer between near-infrared responsive NaYF ₄ :Yb, Er upconversion fluorescent nanoparticles and gold nanoparticles. 2009 , 81, 8783-9	214
2245	Synthesis and characterization of upconversion emission on lanthanides doped ZrO ₂ nanocrystals coated with SiO ₂ for biological applications. 2010 ,	1
2244	Near-IR photoresponse in new up-converting CdSe/NaYF ₄ :Yb,Er nanoheterostructures. 2010 , 132, 8868-9	171
2243	Sensitized deep-ultraviolet up-conversion emissions of Gd ³⁺ via Tm ³⁺ and Yb ³⁺ in hexagonal NaYF ₄ nanorods. 2010 , 98, 243-247	19
2242	Synthesis and assembly of rare earth nanostructures directed by the principle of coordination chemistry in solution-based process. 2010 , 254, 1038-1053	140
2241	Synthesis and upconversion properties of GdOBr:Er ³⁺ phosphors. 2010 , 45, 1625-1627	7
2240	Effects of Phonon Confinement on Anomalous Thermalization, Energy Transfer, and Upconversion in Ln ³⁺ -Doped Gd ₂ O ₃ Nanotubes. 2010 , 20, 624-634	56
2239	Anomalous Raman Scattering of Colloidal Yb ³⁺ ,Er ³⁺ Codoped NaYF ₄ Nanophosphors and Dynamic Probing of the Upconversion Luminescence. 2010 , 20, 3530-3537	83
2238	A strategy to achieve efficient dual-mode luminescence of Eu(3+) in lanthanides doped multifunctional NaGdF(4) nanocrystals. 2010 , 22, 3266-71	532
2237	Luminescence tuning of upconversion nanocrystals. 2010 , 16, 4923-31	81
2236	Surface-modified upconverting microparticles and nanoparticles for use in click chemistries. 2010 , 16, 5416-24	58
2235	A "neck-formation" strategy for an anti-quenching magnetic/upconversion fluorescent bimodal cancer probe. 2010 , 16, 11254-60	58

2234	Direct Evidence of a Surface Quenching Effect on Size-Dependent Luminescence of Upconversion Nanoparticles. 2010 , 122, 7618-7622	156
2233	Direct evidence of a surface quenching effect on size-dependent luminescence of upconversion nanoparticles. 2010 , 49, 7456-60	696
2232	Intense visible multicolored luminescence from lanthanide ion-pair codoped NaGdF ₄ nanocrystals. 2010 , 25, 394-8	7
2231	Upconversion: road to El Dorado of the fluorescence world. 2010 , 25, 290-3	33
2230	Dual-modality in vivo imaging using rare-earth nanocrystals with near-infrared to near-infrared (NIR-to-NIR) upconversion luminescence and magnetic resonance properties. 2010 , 31, 3287-95	489
2229	Long-term in vivo biodistribution imaging and toxicity of polyacrylic acid-coated upconversion nanophosphors. 2010 , 31, 7078-85	464
2228	Neurotoxin-conjugated upconversion nanoprobe for direct visualization of tumors under near-infrared irradiation. 2010 , 31, 8724-31	100
2227	Upconverting nanoparticle based optical sensor for carbon dioxide. 2010 , 150, 126-131	104
2226	High angle annular dark field-scanning transmission electron microscopy and high-resolution transmission electron microscopy studies in the Er ₂ O ₃ /ZrO ₂ system. 2010 , 84, 1226-1231	5
2225	Upconverting luminescent nanoparticles for use in bioconjugation and bioimaging. 2010 , 14, 582-96	400
2224	Lanthanide-doped LiYF ₄ nanoparticles: Synthesis and multicolor upconversion tuning. 2010 , 13, 731-736	105
2223	Water-soluble NaYF ₄ :Yb/Er upconversion nanophosphors: Synthesis, characteristics and application in bioimaging. 2010 , 13, 392-394	110
2222	Lanthanide NIR luminescence for telecommunications, bioanalyses and solar energy conversion. 2010 , 28, 824-842	475
2221	Facile synthesis of visible light excited La _{1-x} Gd _x F ₃ : Eu ³⁺ micro-meter sphere using polyvinylpyrrolidone as a template. 2010 , 28, 285-288	3
2220	Small upconverting fluorescent nanoparticles for biomedical applications. 2010 , 6, 2781-95	457
2219	Simultaneous phase and size control of upconversion nanocrystals through lanthanide doping. 2010 , 463, 1061-5	2560
2218	. 2010 ,	128
2217	Morphologically controlled synthesis of colloidal upconversion nanophosphors and their shape-directed self-assembly. 2010 , 107, 22430-5	385

2216	Down- and up-conversion luminescence of Tm ³⁺ /Ho ³⁺ codoped LaOF nanoparticles. 2010 , 107, 123528	19
2215	Facile microemulsion route to coat carbonized glucose on upconversion nanocrystals as high luminescence and biocompatible cell-imaging probes. 2010 , 21, 315105	28
2214	Assembly of upconversion NaREF ₄ nanocrystals. 2010 ,	
2213	Capturing a DNA duplex under near-physiological conditions. 2010 , 97, 163702	6
2212	Polymeric/inorganic nanocomposites: fabrication and applications in multiple bioimaging. 2010 , 638-e697	1
2211	Optical Spectroscopy of Sm ³⁺ and Dy ³⁺ Doped ZnO Nanocrystals. 2010 , 43, 343-349	38
2210	Advanced Nanomaterials in Multimodal Imaging: Design, Functionalization, and Biomedical Applications. 2010 , 2010, 1-15	45
2209	Fluorescent sensing of colloidal CePO ₄ :Tb nanorods for rapid, ultrasensitive and selective detection of vitamin C. 2010 , 21, 365501	48
2208	Tunable Upconversion Emissions from Lanthanide-doped Monodisperse β -NaYF ₄ Nanoparticles. 2010 , 43, 400-405	45
2207	Analytische Chemie 2008/2009. 2010 , 58, 223-235	
2206	Modifying the size and shape of monodisperse bifunctional alkaline-earth fluoride nanocrystals through lanthanide doping. 2010 , 132, 9976-8	269
2205	Luminescent Rare Earth Complexes as Chemosensors and Bioimaging Probes. 2010 , 529-570	6
2204	Core-shell nanoarchitectures: a strategy to improve the efficiency of luminescence resonance energy transfer. 2010 , 4, 5389-97	26
2203	Colloidal synthesis and blue based multicolor upconversion emissions of size and composition controlled monodisperse hexagonal NaYF ₄ :Yb,Tm nanocrystals. 2010 , 2, 953-9	197
2202	Upconversion nanoparticles in biological labeling, imaging, and therapy. 2010 , 135, 1839-54	1159
2201	Seed-mediated synthesis of NaY F ₄ :Y b, Er/NaGdF ₄ nanocrystals with improved upconversion fluorescence and MR relaxivity. 2010 , 21, 125602	134
2200	Ultrasmall monodisperse NaYF ₄ :Yb(3+)/Tm(3+) nanocrystals with enhanced near-infrared to near-infrared upconversion photoluminescence. 2010 , 4, 3163-8	550
2199	Temperature sensing using fluorescent nanothermometers. 2010 , 4, 3254-8	1082

2198	Structural Changes and Spectroscopic Properties of Ce ³⁺ -Ion-Doped Sodium Yttrium Fluoride Nanocrystals: Influences of Sonication and Temperature. 2010 , 114, 715-722	26
2197	Synthesis of colour tunable lanthanide-ion doped NaYF ₄ upconversion nanoparticles by controlling temperature. 2010 , 46, 3908-10	72
2196	Determination of Judd-Ofelt intensity parameters from the excitation spectra for rare-earth doped luminescent materials. 2010 , 12, 3276-82	95
2195	Eu ³⁺ -Doped In ₂ O ₃ Nanophosphors: Electronic Structure and Optical Characterization. 2010 , 114, 9314-9321	68
2194	Synthesis and upconversion luminescence properties of CaF ₂ :Yb ³⁺ ,Er ³⁺ nanoparticles obtained from SBA-15 template. 2010 , 25, 2035-2041	24
2193	A facile and general approach for the multicolor tuning of lanthanide-ion doped NaYF ₄ upconversion nanoparticles within a fixed composition. 2010 , 20, 9113	77
2192	Down- and up-conversion photoluminescence, cathodoluminescence and paramagnetic properties of NaGdF ₄ :Yb ³⁺ ,Er ³⁺ submicron disks assembled from primary nanocrystals. 2010 , 20, 3178	172
2191	Controllable synthesis and formation mechanism of luminescent monodispersed NaEuF ₄ submicron disks through assembled nanocrystals. 2010 , 12, 1373-1376	18
2190	Self-aligned nanolithography by selective polymer dissolution. 2010 , 2, 2302-6	8
2189	The structural behaviour of LaF ₃ at high pressures. 2010 , 39, 4302-11	22
2188	Layer-by-layer assembly of freestanding thin films with homogeneously distributed upconversion nanocrystals. 2010 , 20, 8356	36
2187	Quantification of C-H quenching in near-IR luminescent ytterbium and neodymium cryptates. 2010 , 132, 14334-5	86
2186	Long aliphatic chain coated rare-earth nanocrystal as polymer-based optical waveguide amplifiers. 2010 , 20, 7526	42
2185	"Drawing" upconversion nanophosphors into water through host-guest interaction. 2010 , 46, 5551-3	70
2184	Lanthanide luminescence for functional materials and bio-sciences. <i>Chemical Society Reviews</i> , 2010 , 39, 189-227	58.5 2697
2183	Increasing the efficiency of lanthanide luminescent bioprobes: bioconjugated silica nanoparticles as markers for cancerous cells. 2010 , 34, 2915	28
2182	Optical ammonia sensor based on upconverting luminescent nanoparticles. 2010 , 82, 5002-4	173
2181	Rare earth fluoride nano-/microcrystals: synthesis, surface modification and application. 2010 , 20, 6831	600

2180	Lanthanide Luminescence in Solids. 2010 , 183-233		20
2179	Controllable energy transfer in fluorescence upconversion of NdF ₃ and NaNdF ₄ nanocrystals. 2010 , 18, 3364-9		20
2178	Towards pure near-infrared to near-infrared upconversion of multifunctional GdF(3):Yb(3+),Tm(3+) nanoparticles. 2010 , 18, 6123-30		100
2177	Nanoparticles for highly efficient multiphoton fluorescence bioimaging. 2010 , 18, 23544-53		70
2176	PEG-mediated solvothermal synthesis of NaYF ₄ :Yb/Er superstructures with efficient upconversion luminescence. 2010 , 506, L17-L21		24
2175	Superparamagnetic and upconversion emitting Fe ₃ O ₄ /NaYF ₄ :Yb,Er hetero-nanoparticles via a crosslinker anchoring strategy. 2010 , 46, 5731-3		98
2174	Facile synthesis and luminescence of uniform Y ₂ O ₃ hollow spheres by a sacrificial template route. 2010 , 49, 7721-5		82
2173	Gadolinium oxide ultranarrow nanorods as multimodal contrast agents for optical and magnetic resonance imaging. 2010 , 26, 8959-65		147
2172	Fabrication of Ag@SiO(2)@Y(2)O(3):Er nanostructures for bioimaging: tuning of the upconversion fluorescence with silver nanoparticles. 2010 , 132, 2850-1		435
2171	Multiple fluorescent chemical sensing and imaging. <i>Chemical Society Reviews</i> , 2010 , 39, 3102-14	58.5	287
2170	Role of Yb ³⁺ and Er ³⁺ concentration on the tunability of green-yellow-red upconversion emission of codoped ZrO ₂ :Yb ³⁺ +Er ³⁺ nanocrystals. 2010 , 108, 023103		63
2169	Lanthanide-based luminescent NanoGUMBOS. 2010 , 26, 15599-603		29
2168	Effective Control of the Ratio of Red to Green Emission in Upconverting LaF ₃ Nanoparticles Codoped with Yb ³⁺ and Ho ³⁺ Ions Embedded in a Silica Matrix. 2010 , 2, 157-164		44
2167	Photoluminescence modification in upconversion rare-earth fluoride nanocrystal array constructed photonic crystals. 2010 , 20, 3895		70
2166	Tuning the shape and thermoelectric property of PbTe nanocrystals by bismuth doping. 2010 , 2, 1256-9		40
2165	Size and shape evolution of upconverting nanoparticles using microwave assisted synthesis. 2010 , 12, 1993		27
2164	A new CoFe(2)O(4)-Cr(2)O(3)-SiO(2) fluorescent magnetic nanocomposite. 2010 , 2, 2250-6		36
2163	Upconversion for white light generation by a single compound. 2010 , 132, 947-9		223

2162	Energy transfer study between Ce ³⁺ and Tb ³⁺ ions in doped and core-shell sodium yttrium fluoride nanocrystals. 2010 , 2, 1196-202	80
2161	Intracellular imaging of HeLa cells by non-functionalized NaYF ₄ : Er ³⁺ , Yb ³⁺ upconverting nanoparticles. 2010 , 2, 495-8	165
2160	Luminescence resonance energy transfer from an upconverting nanoparticle to a fluorescent phycobiliprotein. 2010 , 2, 1185-9	29
2159	Heterometallic Na-Y(Ln) trifluoroacetate diglyme complexes as novel single-source precursors for upconverting NaYF ₄ nanocrystals co-doped with Yb and Er/Tm ions. 2010 , 46, 3756-8	41
2158	A versatile fabrication of upconversion nanophosphors with functional-surface tunable ligands. 2010 , 20, 8078	57
2157	Bright white upconversion emission from Yb(3+), Er(3+), and Tm(3+)-codoped Gd ₂ O ₃ nanotubes. 2010 , 12, 7620-5	61
2156	Luminescent chemical sensing, biosensing, and screening using upconverting nanoparticles. 2011 , 300, 29-50	71
2155	Fabrication of a silica sphere with fluorescent and MR contrasting GdPO ₄ nanoparticles from layered gadolinium hydroxide. 2010 , 46, 3654-6	37
2154	Magnetic and upconverted luminescent properties of multifunctional lanthanide doped cubic KGdF ₄ nanocrystals. 2010 , 2, 2805-10	72
2153	Tunable Multicolor Upconversion Emissions and Paramagnetic Property of Monodispersed Bifunctional Lanthanide-Doped NaGdF ₄ Nanorods. 2011 , 115, 20141-20147	119
2152	Ytterbium stabilized ordered mesoporous titania for near-infrared photocatalysis. 2011 , 47, 8109-11	78
2151	Dopant-induced phase transition: a new strategy of synthesizing hexagonal upconversion NaYF ₄ at low temperature. 2011 , 47, 5801-3	100
2150	Water dispersible ultra-small multifunctional KGdF ₄ :Tm ³⁺ , Yb ³⁺ nanoparticles with near-infrared to near-infrared upconversion. 2011 , 21, 16589	156
2149	Breakthrough in concentration quenching threshold of upconversion luminescence via spatial separation of the emitter doping area for bio-applications. 2011 , 47, 11957-9	75
2148	A general strategy for the synthesis of upconversion rare earth fluoride nanocrystals via a novel OA/ionic liquid two-phase system. 2011 , 47, 9510-2	41
2147	Controlled synthesis of NaYF ₄ : Yb, Er nanocrystals with upconversion fluorescence via a facile hydrothermal procedure in aqueous solution. 2011 , 13, 1772	61
2146	Facile synthesis and properties of spherical assemblies of NaYF ₄ nanocrystals with consistent crystalline orientation. 2011 , 13, 7009	5
2145	Monodisperse upconversion Er ³⁺ /Yb ³⁺ :MFCl (M = Ca, Sr, Ba) nanocrystals synthesized via a seed-based chlorination route. 2011 , 47, 11083-5	50

2144	A novel luminescent mesoporous silica/apatite composite for controlled drug release. 2011 , 21, 5505	27
2143	Nanofluorides for Environmentally Benign Lighting and Energy Conversion in Solar Cells. 2011 , 87-99	2
2142	Plasmonic enhanced emissions from cubic NaYF(4):Yb: Er/Tm nanophosphors. 2011 , 23, 2987-2993	118
2141	Low-Temperature Flux Growth and Upconversion Fluorescence of the Idiomorphic Hexagonal-System NaYF ₄ and NaYF ₄ :Ln (Ln = Yb, Er, Tm) Crystals. 2011 , 11, 4825-4830	20
2140	Multifunctional Y ₂ O ₃ :Yb ³⁺ /Tm ³⁺ /Li ⁺ Nanocrystals with Enhanced Near-Infrared to Near-Infrared Upconversion Photoluminescence. 2011 , 197-198, 168-173	
2139	Polymer-coated NaYF ₄ :Yb ³⁺ , Er ³⁺ upconversion nanoparticles for charge-dependent cellular imaging. 2011 , 5, 7838-47	226
2138	Probing intracellular biomarkers and mediators of cell activation using nanosensors and bioorthogonal chemistry. 2011 , 5, 3204-13	60
2137	Two-Photon Upconversion Laser (Scanning and Wide-Field) Microscopy Using Ln ³⁺ -Doped NaYF ₄ Upconverting Nanocrystals: A Critical Evaluation of their Performance and Potential in Bioimaging. 2011 , 115, 19054-19064	134
2136	Nonstatistical Dopant Distribution of Ln ³⁺ -Doped NaGdF ₄ Nanoparticles. 2011 , 115, 15950-15958	52
2135	Role of surface ligands in the nanoparticle assemblies: a case study of regularly shaped colloidal crystals composed of sodium rare earth fluoride. 2011 , 27, 3343-7	22
2134	Enhancement of Near-Infrared-to-Visible Upconversion Luminescence Using Engineered Plasmonic Gold Surfaces. 2011 , 115, 19028-19036	102
2133	Europium(III) Fluoride Nanoparticles from Ionic Liquids: Structural, Morphological, and Luminescent Properties. 2011 , 11, 1040-1048	61
2132	Ethylenediaminetetraacetic acid (EDTA)-controlled synthesis of multicolor lanthanide doped BaYF ₅ upconversion nanocrystals. 2011 , 21, 17202	85
2131	Intracellular glutathione detection using MnO(2)-nanosheet-modified upconversion nanoparticles. 2011 , 133, 20168-71	746
2130	Bright White Up-Conversion Emission from Ho ³⁺ /Yb ³⁺ /Tm ³⁺ Tri-Doped Y ₂ SiO ₅ Phosphors. 2011 , 158, J225	20
2129	Controlled Synthesis and Properties of Rare Earth Nanomaterials. 2011 , 41, 275-472	22
2128	Intense visible and near-infrared upconversion photoluminescence in colloidal LiYF ₄ :Er ³⁺ nanocrystals under excitation at 1490 nm. 2011 , 5, 4981-6	317
2127	Monodisperse NaYbF ₄ :Tm ³⁺ /NaGdF ₄ core/shell nanocrystals with near-infrared to near-infrared upconversion photoluminescence and magnetic resonance properties. 2011 , 3, 2003-8	158

2126	Lanthanide-based luminescent molecular thermometers. 2011 , 35, 1177	234
2125	Biocompatible fluorescence-enhanced ZrO ₂ /CdTe quantum dot nanocomposite for in vitro cell imaging. 2011 , 22, 155604	21
2124	Using 915 nm laser excited Tm ³⁺ /Er ³⁺ /Ho ³⁺ -doped NaYbF ₄ upconversion nanoparticles for in vitro and deeper in vivo bioimaging without overheating irradiation. 2011 , 5, 3744-57	441
2123	Near-infrared (1550 nm) in vivo bioimaging based on rare-earth doped ceramic nanophosphors modified with PEG-b-poly(4-vinylbenzylphosphonate). 2011 , 3, 3705-13	88
2122	Analysis of the Shell Thickness Distribution on NaYF ₄ /NaGdF ₄ Core/Shell Nanocrystals by EELS and EDS. 2011 , 2, 185-189	114
2121	Multifunctional NaYF ₄ : Yb ³⁺ , Er ³⁺ @Ag core/shell nanocomposites: integration of upconversion imaging and photothermal therapy. 2011 , 21, 6193	159
2120	Composition tuning the upconversion emission in NaYF ₄ :Yb/Tm hexaplate nanocrystals. 2011 , 3, 963-6	69
2119	Designing lanthanide-doped nanocrystals with both up- and down-conversion luminescence for anti-counterfeiting. 2011 , 3, 4804-10	169
2118	Emerging functional nanomaterials for therapeutics. 2011 , 21, 13107	137
2117	Near-infrared light-triggered dissociation of block copolymer micelles using upconverting nanoparticles. 2011 , 133, 19714-7	401
2116	The controlled display of biomolecules on nanoparticles: a challenge suited to bioorthogonal chemistry. 2011 , 22, 825-58	410
2115	Synthesis of ligand-free colloiddally stable water dispersible brightly luminescent lanthanide-doped upconverting nanoparticles. 2011 , 11, 835-40	621
2114	Lanthanide activator doped NaYb _{1-x} Gd _x F ₄ nanocrystals with tunable down-, up-conversion luminescence and paramagnetic properties. 2011 , 21, 6186	73
2113	¹⁸ F-Labeled magnetic-upconversion nanophosphors via rare-Earth cation-assisted ligand assembly. 2011 , 5, 3146-57	270
2112	Fluorescent Nanoparticles for Biological Imaging. 2011 , 393-405	
2111	Rare-Earth Doped Upconversion Nanophosphors. 2011 , 607-635	13
2110	Gelatin-mediated hydrothermal synthesis of apple-like LaCO ₃ OH hierarchical nanostructures and tunable white-light emission. 2011 , 13, 4151	23
2109	Phase transition from hexagonal LnF ₃ (Ln = La, Ce, Pr) to cubic Ln _{0.8} M _{0.2} F _{2.8} (M = Ca, Sr, Ba) nanocrystals with enhanced upconversion induced by alkaline-earth doping. 2011 , 47, 2601-3	93

2108	Applications of upconversion nanoparticles in imaging, detection and therapy. 2011 , 6, 1273-88		100
2107	Simultaneous synthesis and functionalization of water-soluble up-conversion nanoparticles for in-vitro cell and nude mouse imaging. 2011 , 3, 2175-81		105
2106	Single-Phase Dy ₂ O ₃ :Tb ³⁺ +Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging. 2011 , 23, 2439-2446		70
2105	Lanthanide Luminescence. 2011 ,		78
2104	Luminescence Applied in Sensor Science. 2011 ,		7
2103	Rare-earth-doped bifunctional alkaline-earth metal fluoride nanocrystals via a facile microwave-assisted process. 2011 , 50, 5327-9		12
2102	Iridium(III) complex-coated nanosystem for ratiometric upconversion luminescence bioimaging of cyanide anions. 2011 , 133, 15276-9		352
2101	Optimizing sensitization processes in dinuclear luminescent lanthanide oligomers: selection of rigid aromatic spacers. 2011 , 133, 16219-34		73
2100	Size-Tunable, Ultrasmall NaGdF ₄ Nanoparticles: Insights into Their T1MRI Contrast Enhancement. 2011 , 23, 3714-3722		368
2099	Phosphorescent heavy-metal complexes for bioimaging. <i>Chemical Society Reviews</i> , 2011 , 40, 2508-24	58.5	996
2098	Aptamer-functionalized magnetic nanoparticle-based bioassay for the detection of ochratoxin A using upconversion nanoparticles as labels. 2011 , 136, 2306-14		120
2097	Converting visible light into UVC: microbial inactivation by Pr(3+)-activated upconversion materials. 2011 , 45, 3680-6		80
2096	Ligand Effects and Synthesis of NaYF ₄ Based Up and Downconversion Colloidal Nanophosphors. 2011 , 71-85		2
2095	Upconversion in NaYF ₄ :Yb, Er nanoparticles amplified by metal nanostructures. 2011 , 22, 325604		68
2094	Efficient fluorescence resonance energy transfer between upconversion nanophosphors and graphene oxide: a highly sensitive biosensing platform. 2011 , 47, 4661-3		184
2093	Progress on lanthanide-based organic-inorganic hybrid phosphors. <i>Chemical Society Reviews</i> , 2011 , 40, 536-49	58.5	495
2092	Enhancement of upconversion luminescence of Y ₂ O ₃ :Er ³⁺ nanocrystals by codoping Li+Zn ²⁺ . 2011 , 509, 409-413		52
2091	Solvent-assisted selective synthesis of NaLaF ₄ and LaF ₃ fluorescent nanocrystals via a facile solvothermal approach. 2011 , 509, 1964-1968		9

2090	Phase and luminescent intensity control of hydrophilic rare-earth up-converting nanophosphors prepared by one-pot solvothermal synthesis. 2011 , 509, 6539-6544	24
2089	Solvothermal synthesis of monodisperse ultrasmall cubic-structure Ba ₂ YbF ₇ nanocrystals with intense upconversion. 2011 , 509, 7943-7947	17
2088	Controllable synthesis of bifunctional NaYF ₄ :Yb ³⁺ /Ho ³⁺ @SiO ₂ /Au nanoparticles with upconversion luminescence and high X-ray attenuation. 2011 , 509, 9144-9149	16
2087	Sub-10 nm hexagonal lanthanide-doped NaLuF ₄ upconversion nanocrystals for sensitive bioimaging in vivo. 2011 , 133, 17122-5	708
2086	Utilizing the amidation reaction to address the cooperative effect of carboxylic acid/amine on the size, shape, and multicolor output of fluoride upconversion nanoparticles. 2011 , 21, 10894	46
2085	Novel fabrication of NIR-vis upconversion NaYF ₄ :Ln (Ln = Yb, Er, Tm) crystal layers by a flux coating method. 2011 , 21, 13847	22
2084	Eu ³⁺ doped KYF ₄ nanocrystals: synthesis, electronic structure, and optical properties. 2011 , 3, 3164-9	79
2083	Microwave-assisted synthesis of hydrophilic BaYF ₅ :Tb/Ce,Tb green fluorescent colloid nanocrystals. 2011 , 40, 142-5	26
2082	Time-Resolved FRET Biosensor Based on Amine-Functionalized Lanthanide-Doped NaYF ₄ Nanocrystals. 2011 , 123, 6430-6434	31
2081	Lanthanide-doped nanocrystals: synthesis, optical-magnetic properties, and applications. 2011 , 44, 322-32	695
2080	High-efficiency upconversion luminescent sensing and bioimaging of Hg(II) by chromophoric ruthenium complex-assembled nanophosphors. 2011 , 5, 8040-8	223
2079	In Vivo Applications of Inorganic Nanoparticles. 2011 , 185-220	5
2078	Rare-Earth Doped Upconversion Nanophosphors. 2011 , 359-384	1
2077	Biosensing Based on Luminescent Semiconductor Quantum Dots and Rare Earth Up-Conversion Nanoparticles. 2011 ,	
2076	Facile solvothermal synthesis of gear-shaped submicrostructured Y ₂ O ₃ :Eu ³⁺ phosphor. 2011 , 13, 1060-1064	13
2075	Uniform lanthanide-doped Y ₂ O ₃ hollow microspheres: Controlled synthesis and luminescence properties. 2011 , 176, 1251-1256	18
2074	Upconversion nanoparticles: synthesis, surface modification and biological applications. 2011 , 7, 710-29	359
2073	Synthesis and optical properties of 10mol% Ce ³⁺ , 5mol% Tb ³⁺ co-doped KGdF ₄ and GdF ₃ submicro/nanocrystals. 2011 , 284, 5453-5456	2

2072	Preparation and upconversion property of TeO ₂ :Er ³⁺ /Yb ³⁺ nanoparticles. 2011 , 34, 274-277	3
2071	A general method to NaLnF ₄ assemblies with ordered structures and strong emissions. 2011 , 65, 3516-3518	7
2070	Synthesis and photoluminescent properties of water-soluble TbF ₃ nanoparticles. 2011 , 29, 1018-1021	6
2069	Core-shell NaYF ₄ :Yb ³⁺ ,Tm ³⁺ @FexOy nanocrystals for dual-modality T2-enhanced magnetic resonance and NIR-to-NIR upconversion luminescent imaging of small-animal lymphatic node. 2011 , 32, 7200-8	185
2068	Multifunctional rare-earth self-assembled nanosystem for tri-modal upconversion luminescence /fluorescence /positron emission tomography imaging. 2011 , 32, 8243-53	136
2067	Bioimaging and toxicity assessments of near-infrared upconversion luminescent NaYF ₄ :Yb,Tm nanocrystals. 2011 , 32, 9059-67	215
2066	Polymer encapsulated upconversion nanoparticle/iron oxide nanocomposites for multimodal imaging and magnetic targeted drug delivery. 2011 , 32, 9364-73	251
2065	Magnetic nanobead-based immunoassay for the simultaneous detection of aflatoxin B1 and ochratoxin A using upconversion nanoparticles as multicolor labels. 2011 , 30, 35-42	114
2064	Luminescent multifunctional lanthanides-based metal-organic frameworks. <i>Chemical Society Reviews</i> , 2011 , 40, 926-40	58.5 1324
2063	Morphological control and luminescence properties of lanthanide orthovanadate LnVO ₄ (Ln = La to Lu) nano-/microcrystals via hydrothermal process. 2011 , 13, 474-482	85
2062	Phase transformation and size tuning in controlled-growth of nanocrystals via self-seeded nucleation with preferential thermodynamic stability. 2011 , 47, 12544-6	16
2061	Systematics in the optical and electronic properties of the binary lanthanide halide, chalcogenide and pnictide compounds: an overview. 2011 , 13, 093038	37
2060	Tuning upconversion through energy migration in core-shell nanoparticles. 2011 , 10, 968-73	1372
2059	Is black iron oxide nanoparticle always a light absorber?. 2011 , 21, 7990	7
2058	Three-primary-color upconversion luminescence in rare earth-doped β -NaLuF ₄ microtubes. 2011 , 46, 3066-3072	10
2057	Core-shell nanophosphor with enhanced NIR-visible upconversion as spectrum modifier for enhancement of solar cell efficiency. 2011 , 13, 6837-6846	41
2056	Photon avalanche upconversion and pump power studies in LaF ₃ :Er ³⁺ /Yb ³⁺ phosphor. 2011 , 104, 1035-1041	49
2055	High-quality water-soluble and surface-functionalized upconversion nanocrystals as luminescent probes for bioimaging. 2011 , 32, 2959-68	197

2054	Surface modification of hydrophobic NaYF ₄ :Yb,Er upconversion nanophosphors and their applications for immunoassay. 2011 , 54, 1292-1297	35
2053	Monodisperse upconversion GdF ₃ :Yb, Er rhombi by microwave-assisted synthesis. 2011 , 6, 267	21
2052	Synthesis of NaYF ₄ :Yb ³⁺ , Er ³⁺ upconversion nanoparticles in normal microemulsions. 2011 , 6, 539	22
2051	Colorimetric detection of HIV-1 ribonuclease H activity by gold nanoparticles. 2011 , 7, 1393-6	61
2050	EcoRI-modified gold nanoparticles for dual-mode colorimetric detection of magnesium and pyrophosphate ions. 2011 , 7, 1987-92	31
2049	Rare-earth upconverting nanobarcodes for multiplexed biological detection. 2011 , 7, 1972-6	87
2048	Bimodal magnetic-fluorescent probes for bioimaging. 2011 , 74, 563-76	78
2047	Dual Phase-Controlled Synthesis of Uniform Lanthanide-Doped NaGdF ₄ Upconversion Nanocrystals Via an OA/Ionic Liquid Two-Phase System for In Vivo Dual-Modality Imaging. 2011 , 21, 4470-4477	205
2046	Fluorescent Conjugated Polyelectrolytes for Bioimaging. 2011 , 21, 3408-3423	236
2045	Tuning the dual emission of photon-upconverting nanoparticles for ratiometric multiplexed encoding. 2011 , 23, 1652-5	142
2044	Rare-earth ion doped up-conversion materials for photovoltaic applications. 2011 , 23, 2675-80	409
2043	Fluorescence upconversion microbarcodes for multiplexed biological detection: nucleic acid encoding. 2011 , 23, 3775-9	154
2042	Luminescent Sensing of Oxygen Using a Quenchable Probe and Upconverting Nanoparticles. 2011 , 123, 274-277	34
2041	Nanopartikel für die Aufwandskonversion. 2011 , 123, 5928-5950	156
2040	Aufkonvertierende lumineszierende Nanopartikel als Nanothermometer. 2011 , 123, 4640-4645	23
2039	Electric-Induced Enhancement and Modulation of Upconversion Photoluminescence in Epitaxial BaTiO ₃ :Yb/Er Thin Films. 2011 , 123, 7008-7012	87
2038	Single-Band Upconversion Emission in Lanthanide-Doped KMnF ₃ Nanocrystals. 2011 , 123, 10553-10556	44
2037	Sodium Doping Controlled Synthesis of Monodisperse Lanthanide Oxysulfide Ultrathin Nanoplates Guided by Density Functional Calculations. 2011 , 123, 12538-12542	9

2036	Luminescent sensing of oxygen using a quenchable probe and upconverting nanoparticles. 2011 , 50, 260-3	213
2035	Upconverting nanoparticles. 2011 , 50, 5808-29	1995
2034	Upconverting nanoparticles for nanoscale thermometry. 2011 , 50, 4546-51	490
2033	Time-resolved FRET biosensor based on amine-functionalized lanthanide-doped NaYF ₄ nanocrystals. 2011 , 50, 6306-10	283
2032	Electric-induced enhancement and modulation of upconversion photoluminescence in epitaxial BaTiO ₃ :Yb/Er thin films. 2011 , 50, 6876-80	263
2031	Single-band upconversion emission in lanthanide-doped KMnF ₃ nanocrystals. 2011 , 50, 10369-72	389
2030	Sodium doping controlled synthesis of monodisperse lanthanide oxysulfide ultrathin nanoplates guided by density functional calculations. 2011 , 50, 12330-4	59
2029	Lanthanide-doped multicolor GdF ₃ nanocrystals for time-resolved photoluminescent biodetection. 2011 , 17, 8549-54	100
2028	Quenching of the luminescence of upconverting luminescent nanoparticles by heavy metal ions. 2011 , 17, 14611-7	81
2027	Fluorine-18 labeled rare-earth nanoparticles for positron emission tomography (PET) imaging of sentinel lymph node. 2011 , 32, 2999-3007	159
2026	Fluorine-18-labeled Gd ³⁺ /Yb ³⁺ /Er ³⁺ co-doped NaYF ₄ nanophosphors for multimodality PET/MR/UCL imaging. 2011 , 32, 1148-56	366
2025	Monodisperse core-shell structured up-conversion Yb(OH)CO ₃ @YbPO ₄ /Er ³⁺ hollow spheres as drug carriers. 2011 , 32, 4161-73	116
2024	Non-linear niobate nanocrystals for two-photon imaging. 2011 , 33, 258-266	16
2023	Pump-power tunable white upconversion emission in lanthanide-doped hexagonal NaYF ₄ nanorods. 2011 , 33, 882-887	38
2022	Synthesis and optical properties of water-soluble fluoride nanophosphors co-doped with Eu ³⁺ and Tb ³⁺ . 2011 , 33, 1419-1423	13
2021	The effects of preparation conditions on the structural and up-conversion properties of NaYF ₄ :Yb ³⁺ , Er ³⁺ nano powders. 2011 , 33, 1111-1115	19
2020	Synthesis, characterization and luminescence spectroscopy of oxide nanopowders activated with trivalent lanthanide ions: The garnet family. 2011 , 33, 247-257	53
2019	Optical spectroscopy of lanthanides doped in wide band-gap semiconductor nanocrystals. 2011 , 131, 415-422	54

2018	Fluorescence enhancement of Ln ³⁺ doped nanoparticles. 2011 , 131, 423-428	41
2017	Influence of carbon templates and Yb ³⁺ concentration on red and green luminescence of uniform Y ₂ O ₃ :Yb/Er hollow microspheres. 2011 , 131, 1198-1202	26
2016	Enhancing upconversion emissions of NaTm _{0.02} Yb _x Y _{0.98-x} F ₄ nanocrystals through increasing Yb ³⁺ doping. 2011 , 131, 1802-1806	14
2015	Upconversion luminescence and magnetic properties of ligand-free monodisperse lanthanide doped BaGdF ₅ nanocrystals. 2011 , 131, 2544-2549	21
2014	Rare earth Ln -NaGdF ₄ fluorides with multiform morphologies: Hydrothermal synthesis and luminescent properties. 2011 , 354, 429-36	33
2013	Fabrication of polystyrene/upconversion nanocrystals nanocomposite spheres through in situ dispersion polymerization. 2011 , 358, 347-53	9
2012	Synthesis of erbium oxide nanosheets and up-conversion properties. 2011 , 22, 295708	4
2011	Dye-biomolecule conjugates and NIR-fluorescent particles for targeting of disease-related biomarkers. 2011 ,	1
2010	Combination of Strong Blue Up-Conversion Photoluminescence and Greatly Enhanced Ferroelectric Polarization in Tm ³⁺ -Yb ³⁺ -W ⁶⁺ -Doped Bi ₄ Ti ₃ O ₁₂ Thin Films. 2011 , 158, G128	25
2009	A User-Friendly Method for Synthesizing High-Quality NaYF ₄ :Yb,Er(Tm) Nanocrystals in Liquid Paraffin. 2011 , 2011, 1-7	7
2008	Multicolor output and shape controlled synthesis of lanthanide-ion doped fluorides upconversion nanoparticles. 2011 , 40, 3305-14	61
2007	Efficient fluorescence emission and photon conversion of LaOF:Eu ³⁺ nanocrystals. 2011 , 98, 011907	40
2006	Synthesis of biocompatible and luminescent NaGdF ₄ :Yb,Er@ Carbon nanoparticles in water-in-oil microemulsion. 2011 , 26, 82-87	8
2005	Synthesis of Yb/Er Doped NaYF ₄ Nanoparticles with Intense Green up-Conversion Emission. 2011 , 365, 287-291	
2004	Power-dependent upconversion luminescence intensity in NaYF ₄ :Yb ³⁺ ,Er ³⁺ nanoparticles. 2011 , 96, 18001	11
2003	Emission properties of hydrothermal Yb(3+), Er(3+) and Yb(3+), Tm(3+)-codoped Lu ₂ O ₃ nanorods: upconversion, cathodoluminescence and assessment of waveguide behavior. 2011 , 22, 075205	33
2002	Green Upconversion Luminescence of Li+Er ³⁺ +Yb ³⁺ Tridoped CaWO ₄ and Effects of Er ³⁺ Concentration. 2011 , 158, J345	13
2001	Ce ³⁺ /Tb ³⁺ activated GdF ₃ , KGdF ₄ , and CeF ₃ submicro/nanocrystals: Synthesis, phase evolution, and optical properties. 2011 , 26, 2916-2923	5

2000	Influence of High Temperature Annealing in Nitrogen on Upconversion Luminescence of NaYF_4 : Yb^{3+} , Er^{3+} Hexagonal Sub-Microplates. 2012 , 496, 79-83	1
1999	Enhanced photocatalytic activity and upconversion luminescence of flowerlike hierarchical Bi_2MoO_6 microspheres by Er^{3+} doping. 2012 , 27, 1471-1475	12
1998	Lanthanide-doped inorganic nanocrystals as luminescent biolabels. 2012 , 15, 580-94	23
1997	Temporal dynamics of IR-to-visible up-conversion in LiNbO_3 : Er^{3+} / Yb^{3+} : a path to phosphors with tunable chromaticity. 2012 , 2, 1529	13
1996	Light-into-heat conversion in La_2O_3 : Er^{3+} - Yb^{3+} phosphor: an incandescent emission. 2012 , 37, 776-8	50
1995	Lanthanides: Near-Infrared Materials. 2012 ,	
1994	Modeling upconversion of erbium doped microcrystals based on experimentally determined Einstein coefficients. 2012 , 111, 013109	62
1993	WHITE UPCONVERSION LUMINESCENCE FROM (Yb^{3+} / Tm^{3+} / Ho^{3+}) TRIDOPED GdF_3 NANORODS AFTER HEAT TREATMENT. 2012 , 05, 1250024	7
1992	Influence of Sensitizer Concentration on the Upconversion Luminescence of NaYF_4 : Yb^{3+} , Er^{3+} Nanoparticles. 2012 , 510, 609-613	2
1991	Rare-Earth Doped Nanoparticles in Security Printing Applications. 2012 , 1471, 62	3
1990	Facile preparation of hydrophilic sodium yttrium fluoride nanorods using hydrophobic nanospheres as precursor. 2012 , 27, 2101-2105	3
1989	Lanthanides: Upconversion Nanoparticles for Bioimaging Applications. 2012 ,	1
1988	Lanthanide-doped up-converting nanoparticles: Merits and challenges. 2012 , 7, 532-563	311
1987	Dual mode green fluorescence from Tb^{3+} : $\text{Ca}_{12}\text{Al}_{14}\text{O}_{33}$ and its applicability as delayed fluorescence. 2012 , 47, 3726-3731	12
1986	Engineering light: advances in wavelength conversion materials for energy and environmental technologies. 2012 , 46, 12316-28	66
1985	Sol-gel preparation and photoluminescence properties of tetragonal ZrO_2 : Y^{3+} , Eu^{3+} nanophosphors. 2012 , 35, 274-279	40
1984	High resolution fluorescence imaging of cancers using lanthanide ion-doped upconverting nanocrystals. 2012 , 4, 1067-105	46
1983	Well-dispersed $\text{KRE}_3\text{F}_{10}$ ($\text{RE} = \text{Sm}, \text{Eu}, \text{Y}$) nanocrystals: solvothermal synthesis and luminescence properties. 2012 , 14, 670-678	38

1982	Optical detection of a single rare-earth ion in a crystal. 2012 , 3, 1029	175
1981	Blue-emissive upconversion nanoparticles for low-power-excited bioimaging in vivo. 2012 , 134, 5390-7	346
1980	Near infrared light triggered release of biomacromolecules from hydrogels loaded with upconversion nanoparticles. 2012 , 134, 16558-61	352
1979	Upconversion nanophosphors for small-animal imaging. <i>Chemical Society Reviews</i> , 2012 , 41, 1323-49	58.5 1352
1978	Absolute quantum yields in NaYF ₄ :Er,Yb upconverters & synthesis temperature and power dependence. 2012 , 22, 24330	28
1977	Synthesis and upconversion luminescence of Lu ₂ O ₃ :Yb ³⁺ ,Tm ³⁺ nanocrystals. 2012 , 22, 373-379	13
1976	Finding a single lanthanide ion through upconversion. 2012 , 13, 4095-7	2
1975	Colour emission tunability in Ho ³⁺ /Tm ³⁺ /Yb ³⁺ co-doped Y ₂ O ₃ upconverted phosphor. 2012 , 109, 611-616	37
1974	Chemoaffinity-mediated synthesis of NaRES ₂ -based nanocrystals as versatile nano-building blocks and durable nano-pigments. 2012 , 134, 3255-64	36
1973	Lanthanide-doped GdVO ₄ upconversion nanophosphors with tunable emissions and their applications for biomedical imaging. 2012 , 22, 6974	114
1972	Enhanced quantum efficiency for Dy ³⁺ Emissions in water dispersible PbF ₂ nanocrystals. 2012 , 2, 8269	25
1971	Construction of 980 nm laser-driven dye-sensitized photovoltaic cell with excellent performance for powering nanobiodevices implanted under the skin. 2012 , 22, 18156	26
1970	Self-assembled hollow rare earth fluoride alloyed architectures with controlled crystal phase and morphology. 2012 , 14, 7764	9
1969	Facile in situ fabrication of graphene-upconversion hybrid materials with amplified electrogenerated chemiluminescence. 2012 , 4, 400-4	33
1968	An effective approach to enhanced energy-transfer efficiency from up-converting phosphors and increased assay sensitivity. 2012 , 48, 7510-2	30
1967	Raisin-like rare earth doped gadolinium fluoride nanocrystals: microwave synthesis and magnetic and upconversion luminescent properties. 2012 , 14, 4266	29
1966	Tunable multicolor and bright white emission of one-dimensional NaLuF ₄ :Yb ³⁺ ,Ln ³⁺ (Ln = Er, Tm, Ho, Er/Tm, Tm/Ho) microstructures. 2012 , 22, 10889	151
1965	Dual-modal fluorescent/magnetic bioprobes based on small sized upconversion nanoparticles of amine-functionalized BaGdF ₅ :Yb/Er. 2012 , 4, 5118-24	91

1964	Simultaneous detection of enterovirus 71 and coxsackievirus A16 using dual-colour upconversion luminescent nanoparticles as labels. 2012 , 48, 4866-8	37
1963	Magnetic/upconversion luminescent mesoparticles of Fe ₃ O ₄ @LaF ₃ :Yb ³⁺ , Er ³⁺ for dual-modal bioimaging. 2012 , 48, 11238-40	48
1962	Rapid microwave-enhanced hydrothermal synthesis and shape evolution of uniform NaGdF ₄ :Yb, Er (Tm/Ho) nanocrystals with upconversion and paramagnetic properties. 2012 , 23, 225705	30
1961	Emission wavelength tuning in rare earth fluoride upconverting nanoparticles decorated with dye-coated titanate nanotubes. 2012 , 28, 17419-25	2
1960	Delineating Mechanisms of Upconversion Enhancement by Li ⁺ Codoping in Y ₂ SiO ₅ :Pr ³⁺ . 2012 , 116, 12772-12778	34
1959	Self-focusing by Ostwald ripening: a strategy for layer-by-layer epitaxial growth on upconverting nanocrystals. 2012 , 134, 11068-71	290
1958	Infrared to visible upconversion in Ho ³⁺ /Yb ³⁺ co-doped Y ₂ O ₃ phosphor: effect of laser input power and external temperature. 2012 , 97, 825-9	17
1957	Lanthanide-doped upconverting phosphors for bioassay and therapy. 2012 , 4, 6692-706	48
1956	Thermometry at the nanoscale. 2012 , 4, 4799-829	1001
1955	Photonics: Upconversion goes broadband. 2012 , 11, 842-3	154
1954	Monodisperse lanthanide fluoride nanocrystals: synthesis and luminescent properties. 2012 , 51, 3963-71	65
1953	Dual-color upconversion fluorescence and aptamer-functionalized magnetic nanoparticles-based bioassay for the simultaneous detection of Salmonella Typhimurium and Staphylococcus aureus. 2012 , 723, 1-6	156
1952	Synthesis and characterization of core-shell structured SiO ₂ @YVO ₄ :Yb ³⁺ ,Er ³⁺ microspheres. 2012 , 258, 3689-3694	52
1951	Lanthanide nanomaterials with photon management characteristics for photovoltaic application. 2012 , 1, 73-90	144
1950	Water-soluble Yb ³⁺ , Tm ³⁺ codoped NaYF ₄ nanoparticles: Synthesis, characteristics and bioimaging. 2012 , 511, 70-73	52
1949	Green upconversion luminescence from poly-crystalline Yb ³⁺ , Er ³⁺ Co-doped CaMoO ₄ . 2012 , 522, 30-34	58
1948	Synthesis of monoclinic Na ₃ ScF ₆ :1mol% Er ³⁺ /2mol% Yb ³⁺ microcrystals by a facile hydrothermal approach. 2012 , 522, 74-77	25
1947	Solvothermal synthesis and tailored upconversion emission of monodisperse ultrasmall face-centered cubic Sr ₂ YF ₇ nanocrystals. 2012 , 525, 97-102	15

1946	Upconversion, avalanche effect and controlled optical switching in Yb ³⁺ , Ho ³⁺ co-doped Ca ₁₂ Al ₁₄ O ₃₃ phosphor. 2012 , 12, 1481-1484	8
1945	Programmable microfluidic synthesis of spectrally encoded microspheres. 2012 , 12, 4716-23	63
1944	Light-Responsive Block Copolymer Micelles. 2012 , 45, 3647-3657	452
1943	Theranostic probe based on lanthanide-doped nanoparticles for simultaneous in vivo dual-modal imaging and photodynamic therapy. 2012 , 24, 5755-61	334
1942	One-step hydrothermal synthesis of carboxyl-functionalized upconversion phosphors for bioapplications. 2012 , 18, 13642-50	58
1941	Shedding light on nanomedicine. 2012 , 4, 638-62	63
1940	YVO ₄ :Eu ³⁺ functionalized porous silica submicrospheres as delivery carriers of doxorubicin. 2012 , 41, 1481-9	36
1939	Use of colloidal upconversion nanocrystals for energy relay solar cell light harvesting in the near-infrared region. 2012 , 22, 16709	94
1938	Decoration of up-converting NaYF ₄ :Yb,Er(Tm) nanoparticles with surfactant bilayer. A versatile strategy to perform oil-to-water phase transfer and subsequently surface silication. 2012 , 14, 3484	26
1937	Controlled synthesis and luminescence properties of rhombic NaLn(MoO ₄) ₂ submicrocrystals. 2012 , 14, 5015	34
1936	Crystal structure and up- and down-conversion properties of Yb ³⁺ , Ho ³⁺ codoped BaGdF ₅ solid-solution with different morphologies. 2012 , 14, 3131	61
1935	Controlled synthesis of Gd ₂ (WO ₄) ₃ microstructures and their tunable photoluminescent properties after Eu ³⁺ /Tb ³⁺ doping. 2012 , 14, 7043	50
1934	Electrospinning preparation and upconversion luminescence of yttrium fluoride nanofibers. 2012 , 14, 7895	5
1933	The novel upconversion properties of LiYbF ₄ :Er microcrystals compared to the Na counterpart. 2012 , 14, 8357	21
1932	Maleimide activation of photon upconverting nanoparticles for bioconjugation. 2012 , 23, 485103	38
1931	NaYF ₄ :Er ³⁺ /Yb ³⁺ /graphene composites: preparation, upconversion luminescence, and application in dye-sensitized solar cells. 2012 , 22, 20381	57
1930	A pluronic F127 coating strategy to produce stable up-conversion NaYF ₄ :Yb,Er(Tm) nanoparticles in culture media for bioimaging. 2012 , 22, 18596	49
1929	Silica nanoparticles coencapsulating gadolinium oxide and horseradish peroxidase for imaging and therapeutic applications. 2012 , 7, 5491-500	13

1928	Interaction Between Y3+ and Oleate Ions for the Cubic-to-Hexagonal Phase Transformation of NaYF4 Nanocrystals. 2012 , 116, 1732-1739	62
1927	Monodisperse Fluorescent Organic/Inorganic Composite Nanoparticles: Tuning Full Color Spectrum. 2012 , 24, 3415-3419	49
1926	An effective polymer cross-linking strategy to obtain stable dispersions of upconverting NaYF4 nanoparticles in buffers and biological growth media for biolabeling applications. 2012 , 28, 3239-47	121
1925	Amine-functionalized lanthanide-doped KGdF4 nanocrystals as potential optical/magnetic multimodal bioprobes. 2012 , 134, 1323-30	353
1924	Are upconverting Ln3+-based nanoparticles any good for deep tissue imaging with retention of optical sectioning?. 2012 ,	
1923	Lanthanum-doped ZnO quantum dots with greatly enhanced fluorescent quantum yield. 2012 , 22, 8221	107
1922	Developing luminescent silver nanodots for biological applications. <i>Chemical Society Reviews</i> , 2012 , 41, 1867-91	58.5 489
1921	Quasi-seeded growth, phase transformation, and size tuning of multifunctional hexagonal NaLnF4 (Ln = Y, Gd, Yb) nanocrystals via in situ cation-exchange reaction. 2012 , 22, 2254-2262	18
1920	Lanthanide dopant-induced formation of uniform sub-10 nm active-core/active-shell nanocrystals with near-infrared to near-infrared dual-modal luminescence. 2012 , 22, 2632-2640	81
1919	Bi-functional NaLuF4:Gd3+/Yb3+/Tm3+ nanocrystals: structure controlled synthesis, near-infrared upconversion emission and tunable magnetic properties. 2012 , 22, 9870	141
1918	Synthesis, structure and luminescence of Er3+-doped Y3Ga5O12 nano-garnets. 2012 , 22, 13788	49
1917	Color tunability of intense upconversion emission from Er3+/Yb3+ co-doped SiO2/Al2O5 glass ceramic planar waveguides. 2012 , 22, 9901	41
1916	Rapid microwave reflux process for the synthesis of pure hexagonal NaYF4:Yb3+,Ln3+,Bi3+ (Ln3+ = Er3+, Tm3+, Ho3+) and its enhanced UC luminescence. 2012 , 22, 21613	88
1915	Luminescence and upconversion from thulium(III) species in solution. 2012 , 14, 13378-84	47
1914	PEG modified BaGdF6:Yb/Er nanoprobe for multi-modal upconversion fluorescent, in vivo X-ray computed tomography and biomagnetic imaging. 2012 , 33, 9232-8	221
1913	Recent advances in synthesis and surface modification of lanthanide-doped upconversion nanoparticles for biomedical applications. 2012 , 30, 1551-61	260
1912	Lanthanide ion-based luminescent nanomaterials for bioimaging. 2012 , 39, 60-71	31
1911	Effect of Eu, Tb codoping on the luminescent properties of Y2O3 hollow microspheres. 2012 , 35, 141-145	11

1910	Facile one-pot sonochemical synthesis of hydrophilic ultrasmall LaF ₃ :Ce,Tb nanoparticles with green luminescence. 2012 , 22, 488-492	12
1909	Controllable synthesis, upconversion luminescence, and paramagnetic properties of NaGdF ₄ :Yb ³⁺ ,Er ³⁺ microrods. 2012 , 144, 157-164	16
1908	Controlled growth along circumferential edge and upconverting luminescence of β -NaYF ₄ : 20%Yb ³⁺ , 1%Er ³⁺ microcrystals. 2012 , 137, 97-102	11
1907	Morphology-tailored synthesis of flower-like Y ₂ O ₃ :Eu ³⁺ microspheres. 2012 , 47, 2135-2139	2
1906	Molecular Devices: Energy Transfer. 2012 ,	
1905	Metal-enhanced upconversion luminescence tunable through metal nanoparticle-nanophosphor separation. 2012 , 6, 8758-66	240
1904	Harmonic nanocrystals for biolabeling: a survey of optical properties and biocompatibility. 2012 , 6, 2542-9	143
1903	The effect of surface coating on energy migration-mediated upconversion. 2012 , 134, 20849-57	344
1902	Controlled synthesis and optical spectroscopy of lanthanide-doped KLaF ₄ nanocrystals. 2012 , 4, 4485-91	74
1901	Upconversion polymeric nanofibers containing lanthanide-doped nanoparticles via electrospinning. 2012 , 4, 7369-75	29
1900	Morphology and phase control of fluorides nanocrystals activated by lanthanides with two-model luminescence properties. 2012 , 4, 4658-66	25
1899	Patterned direct-write and screen-printing of NIR-to-visible upconverting inks for security applications. 2012 , 23, 185305	101
1898	Tuning upconversion emission by controlling particle shape in NaYF ₄ :Yb ³⁺ /Er ³⁺ nanocrystals. 2012 , 111, 033505	38
1897	Mesoporous multifunctional upconversion luminescent and magnetic "nanorattle" materials for targeted chemotherapy. 2012 , 12, 61-7	340
1896	Improving Hematite's Solar Water Splitting Efficiency by Incorporating Rare-Earth Upconversion Nanomaterials. 2012 , 3, 3188-92	88
1895	Combinatorial discovery of lanthanide-doped nanocrystals with spectrally pure upconverted emission. 2012 , 12, 3839-45	227
1894	Phase and shape controlled VO ₂ nanostructures by antimony doping. 2012 , 5, 8708	147
1893	Concentrating and recycling energy in lanthanide codopants for efficient and spectrally pure emission: the case of NaYF ₄ :Er ³⁺ /Tm ³⁺ upconverting nanocrystals. 2012 , 116, 10561-70	89

1892	Facile synthesis of upconversion luminescent mesoporous Y ₂ O ₃ :Er microspheres and metal enhancement using gold nanoparticles. 2012 , 2, 10592	22
1891	Enhanced upconversion emission in Yb ³⁺ and Er ³⁺ codoped NaGdF ₄ nanocrystals by introducing Li ⁺ ions. 2012 , 4, 779-84	241
1890	Up-conversion properties of lanthanide-organic frameworks and how to track ammunitions using these materials. 2012 , 2, 3083	41
1889	Novel heterometal-organic complexes as first single source precursors for up-converting NaY(Ln)F ₄ (Ln = Yb, Er, Tm) nanomaterials. 2012 , 41, 1490-502	49
1888	Non-photobleaching YAG:Ce nanoparticles for optical imaging with blue excitation. 2012 , 2, 3897	23
1887	Photon upconverting nanoparticles for luminescent sensing of temperature. 2012 , 4, 7090-6	181
1886	Plasmon enhanced upconversion luminescence of NaYF ₄ :Yb,Er@SiO ₂ @Ag core-shell nanocomposites for cell imaging. 2012 , 4, 5132-7	219
1885	Optical properties of host material for phosphor computational modeling. 2012 , 112, 3889-3895	10
1884	A strategy for simultaneously realizing the cubic-to-hexagonal phase transition and controlling the small size of NaYF ₄ :Yb ³⁺ ,Er ³⁺ nanocrystals for in vitro cell imaging. 2012 , 8, 1863-8	81
1883	Nanocomposites of graphene oxide and upconversion rare-earth nanocrystals with superior optical limiting performance. 2012 , 8, 2271-6	75
1882	The unique role of nanoparticles in nanomedicine: imaging, drug delivery and therapy. <i>Chemical Society Reviews</i> , 2012 , 41, 2885-911	58.5 859
1881	One-pot synthesis of water-soluble and carboxyl-functionalized NaYF ₄ :Yb,Er(Tm) upconversion nanocrystals and their application for bioimaging. 2012 , 22, 12186	35
1880	Broadband dye-sensitized upconversion of near-infrared light. 2012 , 6, 560-564	738
1879	Self-Assembled NaY(WO ₄) ₂ Hierarchical Dumbbells: Microwave-Assisted Hydrothermal Synthesis and Their Tunable Upconversion Luminescent Properties. 2012 , 2012, 2220-2225	11
1878	Single-Phase NaDyF ₄ :Tb ³⁺ Nanocrystals as Multifunctional Contrast Agents in High-Field Magnetic Resonance and Optical Imaging. 2012 , 2012, 2044-2048	27
1877	Luminescent nanoparticles and their use for in vitro and in vivo diagnostics. 2012 , 12, 49-64	23
1876	Direct imaging the upconversion nanocrystal core/shell structure at the subnanometer level: shell thickness dependence in upconverting optical properties. 2012 , 12, 2852-8	265
1875	Design and Synthesis of Multifunctional Drug Carriers Based on Luminescent Rattle-Type Mesoporous Silica Microspheres with a Thermosensitive Hydrogel as a Controlled Switch. 2012 , 22, 1470-1481	141

1874	Iridium-Complex-Modified Upconversion Nanophosphors for Effective LRET Detection of Cyanide Anions in Pure Water. 2012 , 22, 2667-2672	152
1873	Up-Conversion Luminescent and Porous NaYF ₄ :Yb ³⁺ , Er ³⁺ @SiO ₂ Nanocomposite Fibers for Anti-Cancer Drug Delivery and Cell Imaging. 2012 , 22, 2713-2722	133
1872	Size-controlled and biocompatible Gd ₂ O ₃ nanoparticles for dual photoacoustic and MR imaging. 2012 , 1, 657-60	21
1871	Large enhancement of upconversion luminescence of NaYF ₄ :Yb ³⁺ /Er ³⁺ nanocrystal by 3D plasmonic nano-antennas. 2012 , 24, OP236-41	129
1870	In Vitro and In Vivo Uncaging and Bioluminescence Imaging by Using Photocaged Upconversion Nanoparticles. 2012 , 124, 3179-3183	70
1869	Biomimetic Surface Engineering of Lanthanide-Doped Upconversion Nanoparticles as Versatile Bioprobes. 2012 , 124, 6225-6229	51
1868	In vitro and in vivo uncaging and bioluminescence imaging by using photocaged upconversion nanoparticles. 2012 , 51, 3125-9	398
1867	Biomimetic surface engineering of lanthanide-doped upconversion nanoparticles as versatile bioprobes. 2012 , 51, 6121-5	220
1866	Phase- and size-controllable synthesis of hexagonal upconversion rare-earth fluoride nanocrystals through an oleic acid/ionic liquid two-phase system. 2012 , 18, 5954-69	37
1865	Monodisperse mesocrystals of YF ₃ and Ce ³⁺ /Ln ³⁺ (Ln=Tb, Eu) co-activated YF ₃ : shape control synthesis, luminescent properties, and biocompatibility. 2012 , 18, 5222-31	37
1864	Rare-Earth nanoparticles with enhanced upconversion emission and suppressed rare-Earth-ion leakage. 2012 , 18, 5558-64	179
1863	Enhanced red emission from GdF ₃ :Yb ³⁺ ,Er ³⁺ upconversion nanocrystals by Li ⁺ doping and their application for bioimaging. 2012 , 18, 9239-45	148
1862	DNA Nanolamps: Clicked DNA Conjugates with Photon Upconverting Nanoparticles as Highly Emissive Biomaterial. 2012 , 77, 129-134	20
1861	Lanthanide-doped Na(x)ScF(3+x) nanocrystals: crystal structure evolution and multicolor tuning. 2012 , 134, 8340-3	286
1860	Rigid, perdeuterated lanthanoid cryptates: extraordinarily bright near-IR luminophores. 2012 , 51, 4539-45	54
1859	Photoswitching of bis-spiropyran using near-infrared excited upconverting nanoparticles. 2012 , 48, 7244-6	50
1858	Visible up-conversion luminescence of CaWO ₄ : Er ³⁺ ,Yb ³⁺ and emission enhancement by tri-doping of Li ⁺ ions. 2012 , 29, 519-524	2
1857	Triple-functional core-shell structured upconversion luminescent nanoparticles covalently grafted with photosensitizer for luminescent, magnetic resonance imaging and photodynamic therapy in vitro. 2012 , 4, 4611-23	197

1856	Color tuning by co-doping of Er doped TiO ₂ phosphors within a fixed Er concentration. 2012 , 62, 419-423	3
1855	Synthesis of surface amino-functionalized NaGdF ₄ :Ce,Tb nanoparticles and their luminescence resonance energy transfer (LRET) with Au nanoparticles. 2012 , 395, 152-156	16
1854	Lanthanide doping-facilitated growth of ultrasmall monodisperse Ba ₂ LaF ₇ nanocrystals with excellent photoluminescence. 2012 , 368, 49-55	32
1853	Multifunctional nanoprobes for upconversion fluorescence, MR and CT trimodal imaging. 2012 , 33, 1079-89	355
1852	Cubic sub-20 nm NaLuF ₄ -based upconversion nanophosphors for high-contrast bioimaging in different animal species. 2012 , 33, 3733-42	187
1851	Core-shell Fe ₃ O ₄ @NaLuF ₄ :Yb,Er/Tm nanostructure for MRI, CT and upconversion luminescence tri-modality imaging. 2012 , 33, 4618-27	247
1850	A NaYbF ₄ : Tm ³⁺ nanoprobes for CT and NIR-to-NIR fluorescent bimodal imaging. 2012 , 33, 5384-93	151
1849	Gd ³⁺ complex-modified NaLuF ₄ -based upconversion nanophosphors for trimodality imaging of NIR-to-NIR upconversion luminescence, X-Ray computed tomography and magnetic resonance. 2012 , 33, 5394-405	232
1848	Water-stable NaLuF ₄ -based upconversion nanophosphors with long-term validity for multimodal lymphatic imaging. 2012 , 33, 6201-10	136
1847	RE ³⁺ (RE=Ce ³⁺ , Tb ³⁺) doped BaGdF ₅ nanocrystals: Synthesis, optical and magnetic properties, and energy transfer. 2012 , 47, 1704-1708	20
1846	Pure red upconversion photoluminescence and paramagnetic properties of Gd ₂ O ₃ :Yb ³⁺ , Er ³⁺ nanotubes prepared via a facile hydrothermal process. 2012 , 73, 147-149	10
1845	Effect of Er ³⁺ concentration on the upconversion luminescence of GdOCl:Er ³⁺ powders with excitation of 514.5nm. 2012 , 80, 184-186	15
1844	Synthesis and upconversion properties of Ln ³⁺ doped YOF nanofibers. 2012 , 140, 38-42	25
1843	Mn ²⁺ dopant-controlled synthesis of NaYF ₄ :Yb/Er upconversion nanoparticles for in vivo imaging and drug delivery. 2012 , 24, 1226-31	690
1842	Photoluminescent Epoxy/Gd ₂ O ₃ :Eu ³⁺ UV-cured Nanocomposites. 2013 , 298, 181-189	7
1841	Folic acid-conjugated silica capped gold nanoclusters for targeted fluorescence/X-ray computed tomography imaging. 2013 , 11, 17	67
1840	Enhancement of blue upconversion luminescence in hexagonal NaYF ₄ :Yb,Tm by using K and Sc ions. 2013 , 15, 1	23
1839	Ligand-dependent luminescence of ultra-small Eu-doped NaYF nanoparticles. 2013 , 15, 1707	20

1838	Plasmon-enhanced near-infrared-active materials in photoelectrochemical water splitting. 2013 , 49, 7917-9	55
1837	Nanochemistry and nanomaterials for photovoltaics. <i>Chemical Society Reviews</i> , 2013 , 42, 8304-38	58.5 225
1836	Lanthanide-doped upconverting nanoparticles: harvesting light for solar cells. 2013 , 6, 1308-11	33
1835	Iron oxide-induced thermal effects on solid-state upconversion emissions in NaYF ₄ :Yb,Er nanocrystals. 2013 , 5, 7875-80	33
1834	Recent advances in design and fabrication of upconversion nanoparticles and their safe theranostic applications. 2013 , 25, 3758-79	400
1833	Nd(3+)-sensitized upconversion nanophosphors: efficient in vivo bioimaging probes with minimized heating effect. 2013 , 7, 7200-6	688
1832	Aptamer-directed synthesis of multifunctional lanthanide-doped porous nanoprobe for targeted imaging and drug delivery. 2013 , 9, 4262-8	21
1831	DNA Nanotechnology. 2013 ,	4
1830	pH- and surfactant-mediated tunable morphology and upconversion of rare-earth doped fluoride microcrystals. 2013 , 3, 14757	24
1829	Multiwalled carbon nanotubes and NaYF ₄ :Yb ³⁺ /Er ³⁺ nanoparticle-doped bilayer hydrogel for concurrent NIR-triggered drug release and up-conversion luminescence tagging. 2013 , 29, 9573-80	61
1828	Metal-ion doped luminescent thin films for optoelectronic applications. 2013 , 1, 5607	97
1827	Rare earth fluorides upconversion nanophosphors: from synthesis to applications in bioimaging. 2013 , 15, 7142	47
1826	Multifunctional upconversion mesoporous silica nanostructures for dual modal imaging and in vivo drug delivery. 2013 , 9, 4150-9	153
1825	Nanoparticles for Improving Cancer Diagnosis. 2013 , 74, 35-69	81
1824	Multicolor and bright white upconversion luminescence from rice-shaped lanthanide doped BiPO ₄ submicron particles. 2013 , 42, 12101-8	43
1823	Photochemical delivery of nitric oxide. 2013 , 34, 56-64	127
1822	Abnormal size-dependent upconversion emissions and multi-color tuning in Er ³⁺ -doped CaF ₂ -YbF ₃ disordered solid-solution nanocrystals. 2013 , 24, 085708	35
1821	Highly uniform and monodisperse GdOF:Ln ³⁺ (Ln = Eu, Tb, Tm, Dy, Ho, Sm) microspheres: hydrothermal synthesis and tunable-luminescence properties. 2013 , 42, 14140-8	50

1820	Graphene oxide covalently grafted upconversion nanoparticles for combined NIR mediated imaging and photothermal/photodynamic cancer therapy. 2013 , 34, 7715-24	302
1819	Synthesis of fluorescent derivatives of praziquantel: cell-imaging and interaction with <i>Schistosoma japonicum</i> cercariae. 2013 , 11, 5989-93	4
1818	Upconversion luminescence properties of Mn ²⁺ -doped NaYF ₄ :Yb/Er nanoparticles. 2013 , 18, 207-212	5
1817	Lanthanides and Actinides in Ionic Liquids. 2013 , 641-673	13
1816	Energy-transfer from Gd(III) to Tb(III) in (Gd,Yb,Tb)PO ₄ nanocrystals. 2013 , 15, 15565-71	39
1815	Multifunctional Up-Converting Nanocomposites with Smart Polymer Brushes Gated Mesopores for Cell Imaging and Thermo/pH Dual-Responsive Drug Controlled Release. 2013 , 23, 4067-4078	183
1814	A core/satellite multifunctional nanotheranostic for in vivo imaging and tumor eradication by radiation/photothermal synergistic therapy. 2013 , 135, 13041-8	458
1813	Controlled growth, intense upconversion emissions and concentration induced luminescence switching of bifunctional Tm(3+) doped hexagonal NaYb _{0.55} Gd _{0.45} F ₄ nanorods. 2013 , 115, 511-5	2
1812	DFT Calculation of Russell-Saunders Splitting for Lanthanide Ions Doped in Hexagonal (Hf)-NaYF ₄ Nanocrystals. 2013 , 117, 17177-17185	28
1811	The synthesis, crystal structure and multicolour up-conversion fluorescence of Yb ³⁺ /Ln ³⁺ (Ln = Ho, Er, Tm) codoped orthorhombic lutetium oxyfluorides. 2013 , 1, 5711	27
1810	Ligase-assisted signal-amplifiable DNA detection using upconversion nanoparticles. 2013 , 3, 16326	17
1809	Controllable synthesis of Hf-NaYF ₄ :Yb,Er nanorods by potassium oleate as ligand. 2013 , 291, 2533-2540	6
1808	Rare earth ions doped phosphors for improving efficiencies of solar cells. 2013 , 57, 270-283	146
1807	NIR photoresponsive crosslinked upconverting nanocarriers toward selective intracellular drug release. 2013 , 9, 2937-44	154
1806	Molecular Imaging: Chemistry and Applications. 2013 , 733-780	
1805	A novel synthesis method and up-conversion properties of hexagonal-phase NaYF ₄ :Er nano-crystals. 2013 , 31, 267-270	4
1804	Ag ₂ O:Eu ³⁺ composite nanotubes: synthesis, tunable photoluminescence and surface-enhanced Raman scattering. 2013 , 15, 7484	11
1803	A facile fabrication of upconversion luminescent and mesoporous core-shell structured Hf-NaYF ₄ :Yb,Er@mSiO ₂ nanocomposite spheres for anti-cancer drug delivery and cell imaging. 2013 , 1, 213-223	97

1802	Multicolor tunability and upconversion enhancement of fluoride nanoparticles by oxygen dopant. 2013 , 5, 8164-71	19
1801	Ricinoleic Acid-Capped Upconverting Nanocrystals: An Ideal Capping Ligand to Render Nanocrystals Water Dispersible. 2013 , 78, 1338-1342	9
1800	Modulation of the emission intensity and color output of NaYF ₄ : Yb ³⁺ , Er ³⁺ nanocrystals by OH ⁻ 2013 , 15, 3919	13
1799	Homogeneous broadening effect on temperature dependence of green upconversion luminescence in erbium doped fibers. 2013 , 139, 52-59	5
1798	A comparison of morphology, structure and optical properties of ultrasmall, small and core-shell up-converting NaYF ₄ /NaGdF ₄ nanocrystals co-doped with Tm ³⁺ and Yb ³⁺ ions. 2013 , 133, 138-144	9
1797	Simultaneous phase and shape control of monodisperse NaLuF ₄ :Yb, Er microcrystals and greatly enhanced upconversion luminescence from their superstructures. 2013 , 295, 140-144	17
1796	Ultimately simple one-pot single-step synthesis of rare earth doped spherical mesoporous metal oxide nanospheres with upconversion emission ability in supercritical methanol. 2013 , 80, 71-77	9
1795	Multi-phonon assisted upconversion emission and power dependence studies in LaF ₃ :Er ³⁺ phosphor. 2013 , 106, 236-41	17
1794	Upconversion properties in hexagonal-phase NaYF ₄ :Er ³⁺ /NaYF ₄ nanocrystals by off-resonant excitation. 2013 , 273, 257-260	13
1793	Paper-based microfluidic device with upconversion fluorescence assay. 2013 , 85, 11691-4	80
1792	Upconversion nanoparticle based LRET system for sensitive detection of MRSA DNA sequence. 2013 , 43, 252-6	62
1791	Upconversion nanoparticle-based fluorescence resonance energy transfer assay for Cr(III) ions in urine. 2013 , 761, 178-85	58
1790	Upconversion-nanophosphor-based functional nanocomposites. 2013 , 25, 5287-303	182
1789	Upconversion performance improvement of NaYF ₄ :Yb, Er by Sn codoping: Enhanced emission intensity and reduced decay time. 2013 , 207, 170-177	27
1788	Water (H ₂ O and D ₂ O) Dispersible NIR-to-NIR Upconverting Yb ³⁺ /Tm ³⁺ -Doped MF ₂ (M = Ca, Sr) Colloids: Influence of the Host Crystal. 2013 , 13, 4906-4913	85
1787	Enhancement of upconversion luminescence of Er and Yb co-doped Y ₂ O ₃ nanoparticle by Ag half-shell. 2013 , 35, 2394-2399	15
1786	Amplified spontaneous emission and lasing from lanthanide-doped up-conversion nanocrystals. 2013 , 7, 11420-6	90
1785	Near-Infrared to Visible Light-Upconversion in Molecules: From Dream to Reality. 2013 , 117, 26957-26963	39

1784	Luminescence properties and energy transfer of Gd ³⁺ , Mn ²⁺ co-doped cubic NaYF ₄ nanocrystals. 2013 , 144, 57-63	11
1783	Perdeuterated 2,2'-bipyridine-6,6'-dicarboxylate: an extremely efficient sensitizer for thulium luminescence in solution. 2013 , 52, 13301-3	26
1782	Highly efficient lanthanide upconverting nanomaterials: Progresses and challenges. 2013 , 8, 643-676	162
1781	Core-shell lanthanide upconversion nanophosphors as four-modal probes for tumor angiogenesis imaging. 2013 , 7, 11290-300	224
1780	Controlled assembly of gold and rare-earth upconversion nanoparticles for ratiometric sensing applications. 2013 , 18, 277-282	2
1779	High quality multi-functional NaErF ₄ nanocrystals: structure-controlled synthesis, phase-induced multi-color emissions and tunable magnetic properties. 2013 , 1, 5520	35
1778	Homogenous detection of fumonisin B(1) with a molecular beacon based on fluorescence resonance energy transfer between NaYF ₄ : Yb, Ho upconversion nanoparticles and gold nanoparticles. 2013 , 116, 611-8	52
1777	Controlled synthesis of uniform LaF ₃ polyhedrons, nanorods and nanoplates using NaOH and ligands. 2013 , 24, 145604	19
1776	Upconverting rare-earth nanoparticles with a paramagnetic lanthanide complex shell for upconversion fluorescent and magnetic resonance dual-modality imaging. 2013 , 24, 175101	38
1775	Multilayer dual-polymer-coated upconversion nanoparticles for multimodal imaging and serum-enhanced gene delivery. 2013 , 5, 10381-8	64
1774	Shape-controllable synthesis of hydrophilic NaLuF ₄ :Yb,Er nanocrystals by a surfactant-assistant two-phase system. 2013 , 8, 518	12
1773	Upconversion emission and paramagnetism of colloid Ba ₂ ErF ₇ and Ba ₂ ErF ₇ :Yb ³⁺ nanocrystals synthesized with solvothermal method. 2013 , 28, 1076-1081	
1772	Multifunctional NaYF ₄ :Yb/Er/Gd nanocrystal decorated SiO ₂ nanotubes for anti-cancer drug delivery and dual modal imaging. 2013 , 3, 8517	16
1771	Rational design of multifunctional upconversion nanocrystals/polymer nanocomposites for cisplatin (IV) delivery and biomedical imaging. 2013 , 25, 4898-905	111
1770	Rare earth tungstate and molybdate compounds - from 0D to 3D architectures. <i>Chemical Society Reviews</i> , 2013 , 42, 8835-48	58.5 170
1769	Facile hydrothermal synthesis and upconversion luminescence of tetragonal Sr ₂ LnF ₇ :Yb ³⁺ /Er ³⁺ (Ln = Y, Gd) nanocrystals. 2013 , 210, 1734-1737	17
1768	Change in structural morphology on addition of ZnO and its effect on fluorescence of Yb ³⁺ /Er ³⁺ doped Y ₂ O ₃ . 2013 , 103, 216-21	9
1767	Magnetic quantum dots in biotechnology--synthesis and applications. 2013 , 8, 1424-34	23

1766	Orthogonal functionalisation of upconverting NaYF ₄ nanocrystals. 2013 , 19, 13538-46	26
1765	One-step synthesis of small-sized and water-soluble NaREF ₄ upconversion nanoparticles for in vitro cell imaging and drug delivery. 2013 , 19, 2685-94	48
1764	Tripod-Like β -NaYF ₄ : Ln ³⁺ (Ln = Yb, Er, Tm, Ho) Nanocrystals with Multicolor Upconversion Luminescence. 2013 , 853, 243-248	1
1763	Simultaneous synthesis and amine-functionalization of single-phase BaYF ₅ :Yb/Er nanoprobe for dual-modal in vivo upconversion fluorescence and long-lasting X-ray computed tomography imaging. 2013 , 5, 6023-9	74
1762	NIR light controlled photorelease of siRNA and its targeted intracellular delivery based on upconversion nanoparticles. 2013 , 5, 231-8	187
1761	Microwave-assisted synthesis and down- and up-conversion luminescent properties of BaYF ₅ :Ln (Ln = Yb/Er, Ce/Tb) nanocrystals. 2013 , 15, 7640	10
1760	Amphiphilic silane modified NaYF ₄ :Yb,Er loaded with Eu(TTA) ₃ (TPPO) ₂ nanoparticles and their multi-functions: dual mode temperature sensing and cell imaging. 2013 , 5, 8541-9	54
1759	Optoelectronic properties of dual emitting RNA-mediated colloidal PbSe nanostructures. 2013 , 42, 11455-64	6
1758	Non-blinking, highly luminescent, pH- and heavy-metal-ion-stable organic nanodots for bio-imaging. 2013 , 1, 3144-3151	24
1757	Multifunctional photosensitizer-conjugated core-shell Fe ₃ O ₄ @NaYF ₄ :Yb/Er nanocomplexes and their applications in T ₂ -weighted magnetic resonance/upconversion luminescence imaging and photodynamic therapy of cancer cells. 2013 , 3, 13915	50
1756	A synthesis and up-conversion photoluminescence study of hexagonal phase NaYF ₄ :Yb,Er nanoparticles. 2013 , 15, 10100	22
1755	An upconversion NaYF ₄ :Yb ³⁺ ,Er ³⁺ /TiO ₂ core-shell nanoparticle photoelectrode for improved efficiencies of dye-sensitized solar cells. 2013 , 226, 47-53	77
1754	Multicolour and up-conversion fluorescence of lanthanide doped Vernier phase yttrium oxyfluoride nanocrystals. 2013 , 1, 1995	39
1753	Synthesis of stable carboxy-terminated NaYF ₄ : Yb ³⁺ , Er ³⁺ @SiO ₂ nanoparticles with ultrathin shell for biolabeling applications. 2013 , 5, 1047-53	57
1752	Lanthanide hexafluoroacetylacetonates vs. nitrates for the controlled loading of luminescent polynuclear single-stranded oligomers. 2013 , 4, 1125	22
1751	Codopant ion-induced tunable upconversion emission in β -NaYF ₄ :Yb ³⁺ /Tm ³⁺ nanorods. 2013 , 42, 1834-41	31
1750	RGD peptide-conjugated multimodal NaGdF ₄ :Yb ³⁺ /Er ³⁺ nanophosphors for upconversion luminescence, MR, and PET imaging of tumor angiogenesis. 2013 , 54, 96-103	109
1749	Upconverting nanoparticles for pre-clinical diffuse optical imaging, microscopy and sensing: Current trends and future challenges. 2013 , 7, 663-697	123

1748	Basic understanding of the lanthanide related upconversion emissions. 2013 , 5, 5703-14	177
1747	Comparative Study of Upconverting Nanoparticles with Various Crystal Structures, Core/Shell Structures, and Surface Characteristics. 2013 , 117, 2239-2244	36
1746	Surface engineering of inorganic nanoparticles for imaging and therapy. 2013 , 65, 622-48	262
1745	Contrasting behaviour of the co-activators in the luminescence spectra of Y ₂ O ₃ :Tb ³⁺ ,Er ³⁺ nanometre sized particles under UV and red light excitation. 2013 , 5, 1091-6	20
1744	Upconversion luminescence with tunable lifetime in NaYF ₄ :Yb,Er nanocrystals: role of nanocrystal size. 2013 , 5, 944-52	278
1743	Lanthanide-doped luminescent nano-bioprobes: from fundamentals to biodetection. 2013 , 5, 1369-84	153
1742	Visible green upconversion luminescence of Er ³⁺ /Yb ³⁺ /Li ⁺ co-doped CaWO ₄ particles. 2013 , 39, S369-S372	19
1741	Sandwich-type immunosensors and immunoassays exploiting nanostructure labels: A review. 2013 , 758, 1-18	345
1740	Laser heating effect on the power dependence of upconversion luminescence in Er ³⁺ -doped nanopowders. 2013 , 15, 1	9
1739	Sputtering deposition of nanoparticles onto liquid substrates: Recent advances and future trends. 2013 , 257, 2468-2483	104
1738	Photon upconversion in hetero-nanostructured photoanodes for enhanced near-infrared light harvesting. 2013 , 25, 1603-7	119
1737	Structure, enhancement and white luminescence of multifunctional Lu ₂ O ₃ :20%Yb ³⁺ ,1%Er ³⁺ (Tm ³⁺) nanoparticles via further doping with Li ⁺ under different excitation sources. 2013 , 5, 2491-504	45
1736	Upconversion fluorescence studies of sol-gel-derived Er-doped KNN ceramics. 2013 , 580, 88-92	61
1735	Effect of lanthanide doping on crystal phase and near-infrared to near-infrared upconversion emission of Tm ³⁺ doped K ₂ F ₃ nanocrystals. 2013 , 39, 7415-7424	6
1734	Synthesis and upconversion luminescence in highly crystalline YOF:Yb ³⁺ /Er ³⁺ and Yb ³⁺ /Tm ³⁺ microboxes. 2013 , 35, 1283-1287	28
1733	Citric acid-assisted phase controlled synthesis of NaYF ₄ :Yb ³⁺ ,Tm ³⁺ crystals and their intense ultraviolet upconversion emissions. 2013 , 156, 177-182	21
1732	PVP-assisted assembly of lanthanum carbonate hydroxide with hierarchical architectures and their luminescence properties. 2013 , 214, 386-393	12
1731	Direct visualization of gastrointestinal tract with lanthanide-doped BaYbF ₅ upconversion nanoprobe. 2013 , 34, 7444-52	56

1730	Strong-field ionization and Coulomb explosion of small neodymium and europium oxide clusters. 2013 , 565, 22-27	7
1729	Infrared emissions in MgSrAl ₁₀ O ₁₇ :Er ³⁺ phosphor co-doped with Yb ³⁺ /Ba ²⁺ /Ca ²⁺ obtained by solution combustion route. 2013 , 134, 396-400	6
1728	Structure of NaYF ₄ Upconverting Nanoparticles: A Multinuclear Solid-State NMR and DFT Computational Study. 2013 , 117, 25733-25741	26
1727	Designed synthesis and photophysical properties of multifunctional hybrid lanthanide complexes. 2013 , 3, 11367	20
1726	Ion-Ion interaction in two-dimensional nanoporous alumina filled with cubic YAlO ₃ :Tb ³⁺ matrix. 2013 , 46, 355302	5
1725	Inhibiting emission quenching in (Y _{0.1} Yb _{0.05} Er _{0.005} Al) ₂ O ₃ by Sc ³⁺ co-doping to enhance upconversion luminescence. 2013 , 137, 274-281	9
1724	Influence of Ce ³⁺ and Gd ³⁺ co-doping on the structure and upconversion emission in hexagonal Ho ³⁺ doped NaYbF ₄ phosphors. 2013 , 39, 1183-1188	11
1723	Nano-crystals of various lanthanide fluorides prepared using the ionic liquid bmimPF ₆ . 2013 , 149, 13-17	12
1722	Infrared to near-infrared and visible upconversion photoluminescence of LiYb ₄ :Er ³⁺ nanorods. 2013 , 31, 337-341	
1721	Up-conversion luminescence properties of Yb ³⁺ /Er ³⁺ co-doped AgGd(W,Mo) ₂ O ₈ phosphors. 2013 , 577, 426-430	9
1720	Colloidal lanthanide-doped NaLuF ₄ :Ln ³⁺ nanocrystals: Synthesis, energy transfer, and tunable luminescence properties. 2013 , 153, 61-67	2
1719	Coordination polymer nanospheres: Preparation, upconversion properties and cytotoxicity study. 2013 , 102-103, 19-21	8
1718	An exceptionally simple strategy for DNA-functionalized up-conversion nanoparticles as biocompatible agents for nanoassembly, DNA delivery, and imaging. 2013 , 135, 2411-4	226
1717	Synthesis and luminescence of ultrafine Er ³⁺ - and Yb ³⁺ -doped Gd ₁₁ SiP ₃ O ₂₆ and Gd ₁₄ B ₆ Ge ₂ O ₃₄ particles for cancer diagnostics. 2013 , 49, 76-81	7
1716	Probing a highly efficient dual mode: down-upconversion luminescence and temperature sensing performance of rare-earth oxide phosphors. 2013 , 42, 1065-72	115
1715	Lanthanide-doped upconverting luminescent nanoparticle platforms for optical imaging-guided drug delivery and therapy. 2013 , 65, 744-55	259
1714	Surface-functionalized nanoparticles for biosensing and imaging-guided therapeutics. 2013 , 5, 3127-48	175
1713	Color-tunable and enhanced luminescence of well-defined sodium scandium fluoride nanocrystals. 2013 , 42, 7863-70	22

1712	Synthesis of rhombic hierarchical YF ₃ nanocrystals and their use as upconversion photocatalysts after TiO ₂ coating. 2013 , 5, 3030-6	75
1711	Frequency-upconverted stimulated emission by simultaneous five-photon absorption. 2013 , 7, 234-239	114
1710	Photon-upconverting nanoparticles for optical encoding and multiplexing of cells, biomolecules, and microspheres. 2013 , 52, 3584-600	352
1709	Color control and white upconversion luminescence of LaOF:Ln ³⁺ (Ln = Yb, Er, Tm) nanocrystals prepared by the sol-gel Pechini method. 2013 , 42, 5159-66	36
1708	Formation and down/up conversion luminescence of Ln ³⁺ doped NaY(MoO ₄) ₂ microcrystals. 2013 , 42, 3366-72	30
1707	Red-emitting upconverting nanoparticles for photodynamic therapy in cancer cells under near-infrared excitation. 2013 , 9, 1929-38, 1928	163
1706	Doped quantum dots for chemo/biosensing and bioimaging. <i>Chemical Society Reviews</i> , 2013 , 42, 5489-5285	513
1705	Structural and up-conversion properties of Er ³⁺ and Yb ³⁺ co-doped Y ₂ Ti ₂ O ₇ phosphors. 2013 , 15, 3480-9	77
1704	Sub-10 nm BaYF ₅ :Yb ³⁺ ,Er ³⁺ core-shell nanoparticles with intense 1.53 μ m fluorescence for polymer-based waveguide amplifiers. 2013 , 1, 1525	41
1703	Direct fluorescent measurement of blood potassium with polymeric optical sensors based on upconverting nanomaterials. 2013 , 85, 2617-22	41
1702	Prevalence of anisotropic shell growth in rare earth core-shell upconversion nanocrystals. 2013 , 7, 4393-402	92
1701	Upconversion nanoparticles and their composite nanostructures for biomedical imaging and cancer therapy. 2013 , 5, 23-37	303
1700	Preparation and photodynamic therapy application of NaYF ₄ :Yb, Tm/NaYF ₄ :Yb, Er multifunctional upconverting nanoparticles. 2013 , 37, 1782	51
1699	Experimental and Theoretical Studies on the Controlled Synthesis of Alkali-Metal-Doped Rare-Earth Oxy-sulfide Nanocrystals. 2013 , 78, 515-521	13
1698	Synthesis and applications of organic nanorods, nanowires and nanotubes. 2013 , 109, 211	40
1697	A general strategy for biocompatible, high-effective upconversion nanocapsules based on triplet-triplet annihilation. 2013 , 135, 5029-37	240
1696	Visible Upconverter Based on $\text{Eu}^{3+}/\text{Yb}^{3+}$ Codoped TeO_2/ZnO Glass. 2013 , 9, 515-519	6
1695	Magnetic tuning of upconversion luminescence in lanthanide-doped bifunctional nanocrystals. 2013 , 52, 4366-9	166

1694	Enhanced emission of NaYF ₄ :Yb,Er/Tm nanoparticles by selective growth of Au and Ag nanoshells. 2013 , 3, 7718	35
1693	Highly efficient up-conversion and bright white light in RE co-doped KYF ₄ nanocrystals in sol-gel silica matrix. 2013 , 555, 196-201	20
1692	Highly sensitive and selective cartap nanosensor based on luminescence resonance energy transfer between NaYF ₄ :Yb,Ho nanocrystals and gold nanoparticles. 2013 , 114, 124-30	29
1691	An invasive DNA approach toward a general method for portable quantification of metal ions using a personal glucose meter. 2013 , 49, 585-7	115
1690	Upconversion nanoparticles conjugated with Gd(3+) -DOTA and RGD for targeted dual-modality imaging of brain tumor xenografts. 2013 , 2, 1501-12	51
1689	Impurity doping: a novel strategy for controllable synthesis of functional lanthanide nanomaterials. 2013 , 5, 4621-37	127
1688	Optical microscopy and spectroscopy of analyte-sensitive functionalized gold nanoparticles in microfluidic systems. 2013 ,	7
1687	Designing tripodal and triangular gadolinium oxide nanoplates and self-assembled nanofibrils as potential multimodal bioimaging probes. 2013 , 7, 2850-9	93
1686	Tunable white upconversion luminescence in Ho ³⁺ /Tm ³⁺ co-doped Yb-based LiYb(MoO ₄) ₂ . 2013 , 105, 166-168	16
1685	Graphitic carbon-nanoparticle-based single-label nanobeacons. 2013 , 19, 8063-7	18
1684	Nano-functionalization of metal complexes for molecular imaging and anticancer therapy. 2013 , 257, 2668-2688	67
1683	High relaxivities and strong vascular signal enhancement for NaGdF ₄ nanoparticles designed for dual MR/optical imaging. 2013 , 2, 1478-88	55
1682	Tunable near infrared to ultraviolet upconversion luminescence enhancement in (NaYF ₄ :Yb,Tm)/CaF ₂ core/shell nanoparticles for in situ real-time recorded biocompatible photoactivation. 2013 , 9, 3213-7	36
1681	A novel Sc ³⁺ -containing fluoride host material for down- and up-conversion luminescence. 2013 , 1, 3910	29
1680	Electronic and elastic properties of yttrium gallium garnet under pressure from ab initio studies. 2013 , 113, 183505	13
1679	Sub-10 nm Fe ₃ O ₄ @Cu(2-x)S core-shell nanoparticles for dual-modal imaging and photothermal therapy. 2013 , 135, 8571-7	510
1678	Dual-Functional Upconverter-Doped TiO ₂ Hollow Shells for Light Scattering and Near-Infrared Sunlight Harvesting in Dye-Sensitized Solar Cells. 2013 , 3, 704-707	29
1677	Comprehensive Study on the Size Effects of the Optical Properties of NaYF ₄ :Yb,Er Nanocrystals. 2013 , 117, 13297-13304	85

1676	Down-/up-conversion luminescence nanocomposites for dual-modal cell imaging. 2013 , 1, 1333-1339	52
1675	A general approach for selective enhancement of green upconversion emissions in Er ³⁺ doped oxides by Yb ³⁺ /MoO ₄ ²⁻ dimer sensitizing. 2013 , 66, 312-316	8
1674	Core-shell nanoarchitecture: a strategy to significantly enhance white-light upconversion of lanthanide-doped nanoparticles. 2013 , 1, 4313	57
1673	One-pot hydrothermal synthesis of lanthanide ions doped one-dimensional upconversion submicrocrystals and their potential application in vivo CT imaging. 2013 , 5, 351-62	63
1672	Lanthanide-doped luminescent nanoprobe: controlled synthesis, optical spectroscopy, and bioapplications. <i>Chemical Society Reviews</i> , 2013 , 42, 6924-58	58.5 679
1671	Near-infrared to near-infrared upconverting NaYF ₄ :Yb ³⁺ ,Tm ³⁺ nanoparticles-aptamer-Au nanorods light resonance energy transfer system for the detection of mercuric(II) ions in solution. 2013 , 138, 2392-7	37
1670	Aqueous phase synthesis of upconversion nanocrystals through layer-by-layer epitaxial growth for in vivo X-ray computed tomography. 2013 , 5, 6950-9	67
1669	Upconversion photoluminescence enhancement and modulation of NaYF ₄ :Yb, Er through using different ligands. 2013 , 143, 492-497	21
1668	Tuning the crystalline phase and morphology of the YF ₃ :Eu ³⁺ microcrystals through fluoride source. 2013 , 15, 5750	28
1667	Synthesis, grouping, and optical properties of RE ₃ F ₆ nanocrystals. 2013 , 139, 609-615	3
1666	Sugar-attached upconversion lanthanide nanoparticles: a novel tool for high-throughput lectin assay. 2013 , 21, 2832-42	9
1665	Engineering the Upconversion Nanoparticle Excitation Wavelength: Cascade Sensitization of Tri-doped Upconversion Colloidal Nanoparticles at 800 nm. 2013 , 1, 644-650	293
1664	PEGylated upconverting luminescent hollow nanospheres for drug delivery and in vivo imaging. 2013 , 9, 3235-41	43
1663	Near-Infrared-to-Near-Infrared Downshifting and Near-Infrared-to-Visible Upconverting Luminescence of Er ³⁺ -Doped In ₂ O ₃ Nanocrystals. 2013 , 117, 10834-10841	43
1662	A highly sensitive upconverting phosphors-based off-on probe for the detection of glutathione. 2013 , 185, 363-369	30
1661	Advanced near-infrared-driven photocatalyst: Fabrication, characterization, and photocatalytic performance of β -NaYF ₄ :Yb ³⁺ ,Tm ³⁺ @TiO ₂ core-shell microcrystals. 2013 , 142-143, 377-386	102
1660	UV- and NIR-responsive polymeric nanomedicines for on-demand drug delivery. 2013 , 4, 3431	156
1659	Long-term in vivo biodistribution and toxicity of Gd(OH) ₃ nanorods. 2013 , 34, 508-15	54

- 1658 Hydrothermal synthesis of NaLuF₄:153Sm,Yb,Tm nanoparticles and their application in dual-modality upconversion luminescence and SPECT bioimaging. **2013**, 34, 774-83 138
- 1657 Multicolor upconversion luminescence in monodispersed Ba₂LaF₇:Ln³⁺ (Ln=Yb/Er and Yb/Tm) nanocrystals. **2013**, 289, 109-113 11
- 1656 Photon upconverting liquids: matrix-free molecular upconversion systems functioning in air. **2013**, 135, 19056-9 185
- 1655 Fabrication of NIR-Vis Upconversion YO_{1.5}F_{1+2x}:Ln (Ln = Yb, Er, Ho, and Tm) Crystal Layers by Flux Coating and Investigation of Growth Manner. **2013**, 13, 1187-1192 12
- 1654 Near-infrared photocatalyst of Er³⁺/Yb³⁺ codoped (CaF₂@TiO₂) nanoparticles with active-core/active-shell structure. **2013**, 1, 7874 67
- 1653 Phase-tunable synthesis and upconversion photoluminescence of rare-earth-doped sodium scandium fluoride nanocrystals. **2013**, 15, 6901 21
- 1652 Synthesis of lanthanide-doped NaYF₄@TiO₂ core-shell composites with highly crystalline and tunable TiO₂ shells under mild conditions and their upconversion-based photocatalysis. **2013**, 5, 8930-3 85
- 1651 High gradient magnetic separation of upconverting lanthanide nanophosphors based on their intrinsic paramagnetism. **2013**, 15, 1 5
- 1650 Water-soluble conjugated polyelectrolyte brush encapsulated rare-earth ion doped nanoparticles with dual-upconversion properties for multicolor cell imaging. **2013**, 49, 9012-4 29
- 1649 Synthesis of Au Fluoride Nanodisk Core@Shell Heteronanostructures. **2013**, 117, 15253-15259 30
- 1648 Enhancing solar cell efficiency: the search for luminescent materials as spectral converters. *Chemical Society Reviews*, **2013**, 42, 173-201 58.5 1257
- 1647 Tailoring lanthanide nanocrystals for nanomedicine. **2013**, 16
- 1646 Coherent phase control of resonance-mediated two-photon absorption in rare-earth ions. **2013**, 103, 194104 15
- 1645 Upconverting Phosphor Labels for Bioanalytical Assays. **2013**, 155-204 3
- 1644 Bioorthogonal chemistries for nanomaterial conjugation and targeting. **2013**, 2, 215-227 16
- 1643 Approaches to the Multicolor Tuning of Lanthanide-Ion Doped Upconversion Nanoparticles. **2013**, 679, 69-74 1
- 1642 Time-resolved luminescence measurements on upconversion phosphors for electron beam sterilization monitoring. **2013**, 16
- 1641 Multicolor upconversion nanoparticles for protein conjugation. **2013**, 3, 239-48 80

1640	Upconverting near-infrared light through energy management in core-shell-shell nanoparticles. 2013 , 52, 13419-23	282
1639	The real role of active-shell in enhancing the luminescence of lanthanides doped nanomaterials. 2013 , 102, 243104	8
1638	Upconverting Near-Infrared Light through Energy Management in Core-Shell-Shell Nanoparticles. 2013 , 125, 13661-13665	44
1637	Inorganic nanocrystals as contrast agents in MRI: synthesis, coating and introduction of multifunctionality. 2013 , 26, 766-80	39
1636	Upconversion multicolor tuning: Red to green emission from Y ₂ O ₃ :Er, Yb nanoparticles by calcination. 2013 , 102, 233103	30
1635	NaYF ₄ :Yb, Er at NaYF ₄ core/shell nanocrystals with significantly enhanced upconversion fluorescence by a successive two-step hot-injection approach. 2013 , 8, 731-734	13
1634	Magnetic Tuning of Upconversion Luminescence in Lanthanide-Doped Bifunctional Nanocrystals. 2013 , 125, 4462-4465	20
1633	Giant enhancement of phonon-assisted one-photon excited frequency upconversion in a Nd ³⁺ -doped tellurite glass. 2013 , 113, 053102	19
1632	Multi-photon excitation in uncaging the small molecule bioregulator nitric oxide. 2013 , 371, 20120129	22
1631	Increased upconversion quantum yield in photonic structures due to local field enhancement and modification of the local density of states--a simulation-based analysis. 2013 , 21 Suppl 5, A883-900	28
1630	Efficiency scaling of non-coherent upconversion in a one-dimensional model system. 2013 , 138, 134505	2
1629	Temperature-dependent Upconversion Luminescence of NaYF ₄ :Yb ³⁺ ,Er ³⁺ Nanoparticles. 2013 , 42, 310-312	8
1628	Photonen aufkonvertierende Nanopartikel zur optischen Codierung und zum Multiplexing von Zellen, Biomolekülen und Mikrosphären. 2013 , 125, 3668-3686	40
1627	Multifunctional upconversion-magnetic hybrid nanostructured materials: synthesis and bioapplications. 2013 , 3, 292-305	56
1626	Effect of Starting Materials on the Morphological and Optical Properties of Er Doped BaTiO ₃ Nanocrystalline Films. 2013 , 54, 806-810	4
1625	Phase and size controllable synthesis of NaYbF ₄ nanocrystals in oleic acid/ionic liquid two-phase system for targeted fluorescent imaging of gastric cancer. 2013 , 3, 210-22	51
1624	Sensing using rare-earth-doped upconversion nanoparticles. 2013 , 3, 331-45	140
1623	Synthesis, Tunable Multicolor Output, and High Pure Red Upconversion Emission of Lanthanide-Doped Lu ₂ O ₃ Nanosheets. 2013 , 2013, 1-6	1

1622	Visible Discrimination of Broadband Infrared Light by Dye-Enhanced Upconversion in Lanthanide-Doped Nanocrystals. 2014 , 2014, 1-13	5
1621	Multi-Functional Magnetic Photoluminescent Photocatalytic Polystyrene-Based Micro- and Nano-Fibers Obtained by Electrospinning. 2014 , 2, 75-91	6
1620	Enhanced Upconversion Luminescence in Yb/Tm-Codoped Fluoride Active Core/Active Shell/Inert Shell Nanoparticles through Directed Energy Migration. 2014 , 4, 55-68	67
1619	Novel Fluorescent Derivative of Praziquantel Interaction with Clonorchis sinensis Cercariae. 2014 , 4,	
1618	. 2014 ,	12
1617	. 2014 ,	50
1616	Effect of plasmon-enhancement on photophysics in upconverting nanoparticles. 2014 , 22, 11516-27	9
1615	Lumineszenzsteigerung bei Lanthanoid-dotierten aufkonvertierenden Nanopartikeln. 2014 , 126, 11892-11906	21
1614	Are rare-earth nanoparticles suitable for in vivo applications?. 2014 , 26, 6922-32	136
1613	Tunable white upconversion luminescence from Yb ³⁺ -Tm ³⁺ -Mn ²⁺ tri-doped perovskite nanocrystals. 2014 , 4, 1186	26
1612	Shape-Controlled Synthesis of Monodispersed Ultrasmall CaGd ₃ F ₁₁ Nanocrystals for Potential Dual-Modal Probes. 2014 , 79, 1584-1589	2
1611	Photon up-conversion increases biomass yield in Chlorella vulgaris. 2014 , 9, 1547-53	8
1610	Upconversion assisted BiOI/ZnWO ₄ :Er ³⁺ , Tm ³⁺ , Yb ³⁺ heterostructures with enhanced visible and near-infrared photocatalytic activities. 2014 , 4, 61679-61686	28
1609	Controlled Synthesis of Water-Soluble NaYF ₄ :Yb ³⁺ , Er ³⁺ -Nanoparticles with Surfactant Dependent Properties. 2014 , 2014, 1-7	
1608	The use of upconverting phosphors in point-of-care (POC) testing. 2014 ,	1
1607	Upconversion luminescence and Visible-Infrared Properties of NaLuF ₄ :Er ³⁺ -Microcrystals Synthesized by the Surfactant-Assisted Hydrothermal Method. 2014 , 2014, 1-11	2
1606	Using 1550 nm Laser Excited LiYF ₄ : Er ³⁺ Upconversion Nanoparticles for Deeper Bioimaging. 2014 ,	
1605	Biocompatible near-infrared fluorescent nanoparticles for macro and microscopic in vivo functional bioimaging. 2014 , 5, 4076-88	15

1604	Synthesis of ZnAl ₂ O ₄ :(Er ³⁺ ,Yb ³⁺) spinel-type nanocrystalline upconverting luminescent marker in HeLa carcinoma cells, using a combustion aerosol method route. 2014 , 4, 56596-56604	23
1603	The influence of NaYF ₄ :Yb,Er size/phase on the multimodality of co-encapsulated magnetic photon-upconverting polymeric nanoparticles. 2014 , 43, 16780-7	14
1602	Opposite size dependences of the red/green upconversion intensity ratio in sub-20 nm Yb ³⁺ ,Er ³⁺ -doped β -NaGdF ₄ nanophosphors. 2014 , 106, 48001	5
1601	Monodispersed LaF ₃ nanocrystals: shape-controllable synthesis, excitation-power-dependent multi-color tuning and intense near-infrared upconversion emission. 2014 , 25, 065703	12
1600	Designing multi-branched gold nanoechinus for NIR light activated dual modal photodynamic and photothermal therapy in the second biological window. 2014 , 26, 6689-95	294
1599	Lanthanide-doped hollow nanomaterials as theranostic agents. 2014 , 6, 80-101	17
1598	Efficient Energy Transfer under Two-Photon Excitation in a 3D, Supramolecular, Zn(II)-Coordinated, Self-Assembled Organic Network. 2014 , 2, 40-47	28
1597	Enhanced Luminescence of NaY _{0.6} Ce _{0.1} Gd _{0.3} EuF ₄ Nanorods by Energy Transfers between Ce ³⁺ , Gd ³⁺ , and Eu ³⁺ . 2014 , 118, 30197-30201	19
1596	Synthesis of scheelite structural Yb ³⁺ , Er ³⁺ co-doped NaLa(MoO ₄) ₂ and its green upconversion luminescence. 2014 , 65, 1644-1648	1
1595	Synergetically enhanced near-infrared photoresponse of reduced graphene oxide by upconversion and gold plasmon. 2014 , 10, 3637-43	25
1594	Upconversion Particle as a Local Luminescent Brownian Probe: A Photonic Force Microscopy Study. 2014 , 1, 1251-1257	23
1593	Controllable Synthesis and Peculiar Optical Properties of Lanthanide-Doped Fluoride Nanocrystals. 2014 , 79, 601-609	8
1592	Quantum coherent control of blue, green and red emissions from codoped lanthanide ions of Er ³⁺ /Tm ³⁺ /Yb ³⁺ by two shaped infrared ultrashort laser beams. 2014 , 24, 015402	0
1591	Static and dynamic photoluminescence and photocatalytic properties of uniform, monodispersed up/down-converting, highly luminescent, lanthanide-ion-doped β -NaYF ₄ phosphor microcrystals with controlled multiform morphologies. 2014 , 2, 19189-19200	29
1590	Evaluation of low energy electron beam dose application by means of a portable optical device. 2014 , 53, 114102	0
1589	Surface Modification Chemistry of Lanthanide-Doped Nanoparticles. 2014 , 59-74	1
1588	Improved multiphoton ultraviolet upconversion photoluminescence in ultrasmall core-shell nanocrystals. 2014 , 39, 6265-8	11
1587	Controlled Synthesis of Core-Shell Structure SiO ₂ /NaGdF ₄ :Eu ³⁺ Magnetic and Optical Bifunctional Composite. 2014 , 936, 359-363	

1586	Optical Spectroscopy of Lanthanide-Doped Nanoparticles. 2014 , 75-123	1
1585	Reduced graphene oxide upconversion nanoparticle hybrid for electrochemiluminescent sensing of a prognostic indicator in early-stage cancer. 2014 , 10, 330-6	53
1584	Near-Infrared Photoregulated Drug Release in Living Tumor Tissue via Yolk-Shell Upconversion Nanocages. 2014 , 24, 363-371	238
1583	Luminescent mesoporous nanoreservoirs for the effective loading and intracellular delivery of therapeutic drugs. 2014 , 10, 1431-42	34
1582	Phase formation in $\text{LaF}_3/\text{NaGdF}_4$, $\text{NaGdF}_4/\text{NaLuF}_4$, and $\text{NaLuF}_4/\text{NaYF}_4$ systems: Synthesis of powders by co-precipitation from aqueous solutions. 2014 , 161, 95-101	26
1581	Inorganic fluorescent nanoprobe for cellular and subcellular imaging. 2014 , 58, 120-129	28
1580	Red emissive cross-linked chitosan and their nanoparticles for imaging the nucleoli of living cells. 2014 , 102, 699-707	43
1579	A novel and tunable upconversion luminescent material $\text{GdPO}_4: \text{Yb}^{3+}, \text{Ln}^{3+}$ ($\text{Ln}=\text{Er}, \text{Tm}, \text{Ho}$). 2014 , 56, 138-142	16
1578	Concentration-dependent upconversion emission in Er-doped and Er/Yb-codoped LiTaO_3 polycrystals. 2014 , 148, 94-97	42
1577	Near-infrared upconversion nanoparticles for bio-applications. 2014 , 45, 635-43	53
1576	Fabrication of Er^{3+} -doped LaOCl nanostructures with upconversion and near-infrared luminescence performances. 2014 , 25, 46-56	12
1575	Structural and optical properties of $\text{Er}^{3+}/\text{Yb}^{3+}$ doped barium titanate phosphor prepared by co-precipitation method. 2014 , 124, 285-91	56
1574	Design and development of fluorescent nanostructures for bioimaging. 2014 , 39, 365-395	227
1573	Luminescent biodetection based on lanthanide-doped inorganic nanoprobe. 2014 , 273-274, 13-29	81
1572	Structure Evolution and Up-Conversion Studies of $\text{ZnX}_2\text{O}_4: \text{Er}^{3+}/\text{Yb}^{3+}$ ($\text{X} = \text{Al}^{3+}, \text{Ga}^{3+}, \text{In}^{3+}$) Nanoparticles. 2014 , 2014, 1090-1101	13
1571	Influence of Li^{+} codoping on visible emission of $\text{Y}_2\text{O}_3: \text{Tb}^{3+}, \text{Yb}^{3+}$ phosphor. 2014 , 118, 619-23	35
1570	A 200-fold Quantum Yield Boost in the Photoluminescence of Silver-Doped $\text{Ag}_x\text{Au}_{25-x}$ Nanoclusters: The 13 th Silver Atom Matters. 2014 , 126, 2408-2412	76
1569	Efficient monochromatic red, green, and blue up-converted luminescence from Yb^{3+} -doped micro-phosphors co-doped with Er^{3+} or Tm^{3+} ions. 2014 , 603, 136-143	11

1568	Facile synthesis and enhancement upconversion luminescence of ErF ₃ nano/microstructures via Li ⁺ doping. 2014 , 2, 2765	11
1567	Ultra-small BaGdF ₅ -based upconversion nanoparticles as drug carriers and multimodal imaging probes. 2014 , 35, 2011-23	143
1566	Recent progress in metal-organic complexes for optoelectronic applications. <i>Chemical Society Reviews</i> , 2014 , 43, 3259-302	58.5 823
1565	A simple and sensitive surface molecularly imprinted polymers based fluorescence sensor for detection of α -Cyhalothrin. 2014 , 125, 14-23	35
1564	Upconversion studies in rare earth ions-doped lanthanide materials. 2014 , 82, 409-412	3
1563	Rapid microwave-assisted flux growth of pure $\text{NaYF}_4\text{:Yb}^{3+}, \text{Ln}^{3+}$ (Ln = Er, Tm, Ho) microrods with multicolor upconversion luminescence. 2014 , 241, 477-484	26
1562	Remarkable enhancement of the near-infrared upconversion emission in the $\text{NaYF}_4\text{:Yb}^{3+}/\text{Tm}^{3+}$ system with controllable morphology. 2014 , 51, 180-184	7
1561	Semiconductors with NIR driven upconversion performance for photocatalysis and photoelectrochemical water splitting. 2014 , 16, 3059	47
1560	Sub-10 nm and monodisperse $\text{NaYF}_4\text{:Yb,Tm,Gd}$ nanocrystals with intense ultraviolet upconversion luminescence. 2014 , 2, 2198-2203	79
1559	Recent developments in lanthanide-based luminescent probes. 2014 , 273-274, 201-212	224
1558	One-step synthesis of water-dispersible hydroxyl-functionalized $\text{NaYF}_4\text{:Yb/Er}$ upconversion nanoparticles. 2014 , 117, 142-145	10
1557	Microwave-assisted hydrothermal synthesis and temperature sensing application of $\text{Er}^{3+}/\text{Yb}^{3+}$ doped $\text{NaY(WO}_4)_2$ microstructures. 2014 , 420, 27-34	89
1556	The Synthesis, Structure, and Tunable Emission Spectra of A New Phosphor $\text{Sm(IO}_3)_3 \cdot 2\text{H}_2\text{O}$. 2014 , 640, 429-433	4
1555	Lanthanide upconversion nanoparticles and applications in bioassays and bioimaging: a review. 2014 , 832, 1-33	279
1554	A 200-fold quantum yield boost in the photoluminescence of silver-doped Ag(x)Au(25-x) nanoclusters: the 13th silver atom matters. 2014 , 53, 2376-80	415
1553	DNA-mediated construction of hollow upconversion nanoparticles for protein harvesting and near-infrared light triggered release. 2014 , 26, 2424-30	99
1552	Lanthanide-Doped Nanoparticles. 2014 , 121-160	3
1551	Aptamer-based luminescence energy transfer from near-infrared-to-near-infrared upconverting nanoparticles to gold nanorods and its application for the detection of thrombin. 2014 , 20, 2888-94	52

- 1550 Dual-targeting upconversion nanoprobe across the blood-brain barrier for magnetic resonance/fluorescence imaging of intracranial glioblastoma. **2014**, 8, 1231-42 243
- 1549 Chemistry, biology, and medicine of fluorescent nanomaterials and related systems: new insights into biosensing, bioimaging, genomics, diagnostics, and therapy. **2014**, 114, 6130-78 561
- 1548 Luminescent solar concentrators: challenges for lanthanide-based organic/inorganic hybrid materials. **2014**, 2, 5580-5596 122
- 1547 Silicon-vacancy color centers in nanodiamonds: cathodoluminescence imaging markers in the near infrared. **2014**, 10, 1908-13 34
- 1546 Aptamer-based biosensors for biomedical diagnostics. **2014**, 139, 2627-40 351
- 1545 Yb³⁺ and Tm³⁺ concentration-dependent structural and optical properties of hexagonal NaGdF₄ nanocrystals. **2014**, 16, 1 8
- 1544 NIR luminescent nanomaterials for biomedical imaging. **2014**, 2, 2422-2443 123
- 1543 Controllable metal-enhanced fluorescence in organized films and colloidal system. **2014**, 207, 164-77 77
- 1542 One-step nucleotide-programmed growth of porous upconversion nanoparticles: application to cell labeling and drug delivery. **2014**, 6, 1445-52 56
- 1541 3-Dimensional photonic crystal surface enhanced upconversion emission for improved near-infrared photoresponse. **2014**, 6, 817-24 62
- 1540 Self-illuminating 64Cu-doped CdSe/ZnS nanocrystals for in vivo tumor imaging. **2014**, 136, 1706-9 122
- 1539 Synthesis and characterization of visible-to-UVC upconversion antimicrobial ceramics. **2014**, 48, 2290-7 10
- 1538 Synthesis and up-conversion photoluminescence properties of NaYF₄:Yb³⁺, Er³⁺@sSiO₂@mSiO₂ nanoparticles. **2014**, 36, 1443-1448 1
- 1537 Intense up-conversion luminescence in Er³⁺/Yb³⁺ co-doped CeO₂ powders. **2014**, 122, 704-10 21
- 1536 Novel series of quaternary fluoride nanocrystals: room-temperature synthesis and down-shifting/up-converting multicolor fluorescence. **2014**, 2, 2368-2374 16
- 1535 Luminescence functionalization of porous silica nanospheres by YVO₄:Eu³⁺ for the efficient recognition of Erythralin in aqueous media. **2014**, 6, 915-923 3
- 1534 Design of multifunctional alkali ion doped CaF₂ upconversion nanoparticles for simultaneous bioimaging and therapy. **2014**, 43, 3861-70 29
- 1533 Plasmon-enhanced energy transfer for improved upconversion of infrared radiation in doped-lanthanide nanocrystals. **2014**, 14, 101-6 166

1532	Near-infrared photocatalysts of BiVO ₄ /CaF ₂ :Er ³⁺ , Tm ³⁺ , Yb ³⁺ with enhanced upconversion properties. 2014 , 6, 1362-8	61
1531	Enhancing luminescence in lanthanide-doped upconversion nanoparticles. 2014 , 53, 11702-15	392
1530	Semiconducting silicon nanowire array fabrication for high throughput screening in the biosciences. 2014 , 171-191	1
1529	An upconversion nanoparticle with orthogonal emissions using dual NIR excitations for controlled two-way photoswitching. 2014 , 53, 14419-23	112
1528	Dual-functional CeO ₂ :Eu ³⁺ nanocrystals for performance-enhanced dye-sensitized solar cells. 2014 , 6, 19825-32	74
1527	Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping. 2014 , 24, 4051-4059	190
1526	Synthesis and enhancement of red UC luminescence properties of ordered hexagonal NaYF ₄ :Yb ³⁺ /Er ³⁺ nanowire arrays. 2014 , 320, 742-745	8
1525	Upconversion of Ln ³⁺ -based Nanoparticles for Optical Bio-imaging. 2014 , 269-302	
1524	Elimination of photon quenching by a transition layer to fabricate a quenching-shield sandwich structure for 800 nm excited upconversion luminescence of Nd ³⁺ -sensitized nanoparticles. 2014 , 26, 2831-7	355
1523	Citric acid-assisted growth of lanthanide ions co-doped one-dimensional upconversion microcrystals and their photovoltaic applications. 2014 , 25, 4066-4073	3
1522	Lanthanide-doped CaS and SrS luminescent nanocrystals: a single-source precursor approach for doping. 2014 , 136, 16533-43	54
1521	Effect of phase transition on photoluminescence of Er-doped KNN ceramics. 2014 , 155, 343-350	21
1520	The effects of structural characterization on the luminescence of Eu ³⁺ -doped fluoride nano/microcrystals. 2014 , 16, 11115-11121	12
1519	Lanthanide Orthoantimonate Light Emitters: Structural, Vibrational, and Optical Properties. 2014 , 26, 6351-6360	18
1518	Unusual upconversion emission from single NaYF ₄ :Yb ³⁺ /Ho ³⁺ microrods under NIR excitation. 2014 , 16, 6697-6706	42
1517	Lanthanide-doped nanoparticles for specific recognition of toll-like receptor (TLR) in human neutrophils. 2014 , 4, 15040	1
1516	Controllable synthesis and size-dependent upconversion luminescence properties of Lu ₂ O ₃ :Yb ³⁺ /Er ³⁺ nanospheres. 2014 , 16, 4329-4337	27
1515	Growth of hexagonal phase sodium rare earth tetrafluorides induced by heterogeneous cubic phase core. 2014 , 4, 13490	10

1514	Self-assembly of LaF ₃ :Yb,Er/Tm nanoplates into colloidal spheres and tailoring their upconversion emissions with fluorescent dyes. 2014 , 2, 8949-8955	13
1513	Synthesis of porous upconverting luminescence $\text{NaYF}_4\text{:Ln(3+)}$ microspheres and their potential applications as carriers. 2014 , 43, 3681-90	18
1512	Tuning the size and upconversion emission of $\text{NaYF}_4\text{:Yb}_3\text{+}/\text{Pr}_3\text{+}$ nanoparticles through Yb ³⁺ doping. 2014 , 4, 56302-56306	32
1511	Upconversion fluorescent strip sensor for rapid determination of <i>Vibrio anguillarum</i> . 2014 , 6, 3804-9	66
1510	Tuning lanthanide ion-doped upconversion nanocrystals with different shapes via a one-pot cationic surfactant-assisted hydrothermal strategy. 2014 , 16, 1859	19
1509	Photoswitchable upconversion nanophosphors for small animal imaging in vivo. 2014 , 4, 15613	24
1508	A novel upconversion, fluorescence resonance energy transfer biosensor (FRET) for sensitive detection of lead ions in human serum. 2014 , 6, 12573-9	111
1507	Lanthanide doped nanoparticles as remote sensors for magnetic fields. 2014 , 6, 11002-6	33
1506	Highly sensitive detection of protein kinase activity using upconversion luminescent nanoparticles. 2014 , 4, 14546	10
1505	Synthesis of upconversion $\text{NaYF}_4\text{:Yb}_3\text{+},\text{Er}_3\text{+}$ particles with enhanced luminescent intensity through control of morphology and phase. 2014 , 2, 3671-3676	54
1504	Simultaneous multiple wavelength upconversion in a core-shell nanoparticle for enhanced near infrared light harvesting in a dye-sensitized solar cell. 2014 , 6, 18018-25	65
1503	Thermal Tb emission quenching in YAlO ₃ matrix embedded in porous anodic alumina. 2014 , 37, 200-203	1
1502	Copper doped ceria nanospheres: surface defects promoted catalytic activity and a versatile approach. 2014 , 2, 5662	72
1501	Multifunctional hydroxyapatite/ $\text{Na(Y/Gd)F}_4\text{:Yb}_3\text{+},\text{Er}_3\text{+}$ composite fibers for drug delivery and dual modal imaging. 2014 , 30, 1176-82	56
1500	Reversibly tunable upconversion luminescence by host-guest chemistry. 2014 , 53, 9151-5	18
1499	Efficient dual-wavelength excitation of Tb ³⁺ emission in rare-earth doped KYF ₄ cubic nanocrystals dispersed in silica sol-gel matrix. 2014 , 37, 511-515	7
1498	LiYF ₄ :Yb ³⁺ , Er ³⁺ upconverting submicro-particles: synthesis and formation mechanism exploration. 2014 , 4, 40223-40231	11
1497	Shape-selective synthesis, characterization and upconversion improvement of Yb ³⁺ /Er ³⁺ doped LiYF ₄ microphosphors through pH tuning. 2014 , 4, 29165	13

1496	"Smart" theranostic lanthanide nanoprobe with simultaneous up-conversion fluorescence and tunable T1-T2 magnetic resonance imaging contrast and near-infrared activated photodynamic therapy. 2014 , 6, 12609-17	41
1495	Lanthanide-doped Sr ₂ YF ₇ nanoparticles: controlled synthesis, optical spectroscopy and biodetection. 2014 , 6, 11098-105	32
1494	Pure and intense orange upconversion luminescence of Eu ³⁺ from the sensitization of Yb ³⁺ /Mn ²⁺ dimer in NaY(Lu)F ₄ nanocrystals. 2014 , 2, 9004-9011	32
1493	Ultrasonic assisted preparation of lanthanide-oleate complexes for the synthesis of multifunctional monodisperse upconversion nanoparticles for multimodal imaging. 2014 , 6, 8037-44	23
1492	Lanthanide-doped NaGdF ₄ core-shell nanoparticles for non-contact self-referencing temperature sensors. 2014 , 6, 5675-9	212
1491	Multifunctional nanoprobe based on upconverting lanthanide doped CaF ₂ : towards biocompatible materials for biomedical imaging. 2014 , 2, 1158-1171	23
1490	Synthesis of cubic LiNbO ₃ nanoparticles and their application in vitro bioimaging. 2014 , 117, 2121-2126	22
1489	Lanthanide-doped upconversion materials: emerging applications for photovoltaics and photocatalysis. 2014 , 25, 482001	115
1488	Ultraviolet upconversion spectra of sonochemically synthesized doped NaYF ₄ crystals. 2014 , 445, 46-52	3
1487	Lanthanide-doped upconversion nanoparticles electrostatically coupled with photosensitizers for near-infrared-triggered photodynamic therapy. 2014 , 6, 8274-82	121
1486	YOF nano/micro-crystals: morphology controlled hydrothermal synthesis and luminescence properties. 2014 , 16, 2196-2204	46
1485	Solution-processible brilliantly luminescent Eu(III) complexes with host-featured phosphine oxide ligands for monochromatic red-light-emitting diodes. 2014 , 20, 11137-48	25
1484	An efficient near infrared photocatalyst of Er ³⁺ /Tm ³⁺ /Yb ³⁺ tridoped (CaWO ₄ @(TiO ₂ /CaF ₂)) with multi-stage CaF ₂ nanocrystal formation. 2014 , 2, 16165-16174	25
1483	Intra-arterial infusion of PEGylated upconversion nanophosphors to improve the initial uptake by tumors in vivo. 2014 , 4, 23580	12
1482	Cyclometallated ruthenium complex-modified upconversion nanophosphors for selective detection of Hg ²⁺ ions in water. 2014 , 6, 1020-8	55
1481	High thermal sensitivity and the selectable upconversion color of Ln, Yb:Y ₆ O ₅ F ₈ nanotubes. 2014 , 16, 23274-85	10
1480	Red and near infrared persistent luminescence nano-probes for bioimaging and targeting applications. 2014 , 4, 58674-58698	130
1479	White light and multicolor emission tuning in triply doped Yb ³⁺ /Tm ³⁺ /Er ³⁺ novel fluoro-phosphate transparent glass-ceramics. 2014 , 2, 5046-5056	49

1478	Rare Earth Nanoprobes for Functional Biomolecular Imaging and Theranostics. 2014 , 2, 2958-2973	61
1477	PEGylated NaLuF ₄ : Yb/Er upconversion nanophosphors for in vivo synergistic fluorescence/X-ray bioimaging and long-lasting, real-time tracking. 2014 , 35, 9689-97	51
1476	Temperature-dependent upconversion luminescence and dynamics of NaYF ₄ :Yb ³⁺ /Er ³⁺ nanocrystals: influence of particle size and crystalline phase. 2014 , 43, 6139-47	117
1475	Synthesis of Co/Ni Unitary- or Binary-Doped CeO ₂ Mesoporous Nanospheres and Their Catalytic Performance for CO Oxidation. 2014 , 2014, 5370-5377	16
1474	Polymer-encapsulated organic nanoparticles for fluorescence and photoacoustic imaging. <i>Chemical Society Reviews</i> , 2014 , 43, 6570-97	58.5 762
1473	Solid Solutions CaF ₂ –YF ₃ with Fluorite Structure Prepared on the Sol–Gel Route: Investigation by Multinuclear MAS NMR Spectroscopy. 2014 , 118, 21066-21074	14
1472	Upconversion nanophosphor: an efficient phosphopeptides-recognizing matrix and luminescence resonance energy transfer donor for robust detection of protein kinase activity. 2014 , 86, 6095-102	53
1471	The synthesis and mechanism exploration of europium-doped LiYF ₄ micro-octahedron phosphors with multilevel interiors. 2014 , 43, 5453-61	16
1470	Monodisperse lanthanide oxyfluorides LnOF (Ln = Y, La, Pr–Tm): morphology controlled synthesis, up-conversion luminescence and in vitro cell imaging. 2014 , 6, 6763-71	29
1469	Plasmon-Enhanced Triplet–Triplet Annihilation Using Silver Nanoplates. 2014 , 118, 6398-6404	32
1468	Amplifying the red-emission of upconverting nanoparticles for biocompatible clinically used prodrug-induced photodynamic therapy. 2014 , 8, 10621-30	230
1467	Rare-earth doped LaF ₃ hollow hexagonal nanoplates: hydrothermal synthesis and photoluminescence properties. 2014 , 16, 7106-7114	21
1466	Phonon-modulated upconversion luminescence properties in some Er ³⁺ and Yb ³⁺ co-activated oxides. 2014 , 2, 4642	26
1465	Multicomponent nanoarchitectures for the design of optical sensing and diagnostic tools. 2014 , 4, 916-942	24
1464	Near IR excitation of heavy atom free Bodipy photosensitizers through the intermediacy of upconverting nanoparticles. 2014 , 50, 8896-9	34
1463	Synthesis, Structure, and Properties of a New ErIII Iodate. 2014 , 67, 763	2
1462	Anomalous Temperature-Dependent Upconversion Luminescence of Small-Sized NaYF ₄ :Yb ³⁺ , Er ³⁺ Nanoparticles. 2014 , 118, 22807-22813	60
1461	Determination of Salmonella typhimurium by a Fluorescence Resonance Energy Transfer Biosensor Using Upconversion Nanoparticles as Labels. 2014 , 47, 2048-2060	5

1460	Salt-assisted rapid transformation of NaYF ₄ :Yb ³⁺ ,Er ³⁺ nanocrystals from cubic to hexagonal. 2014 , 16, 8348-8355	19
1459	Comprehensive Solid-State Characterization of Rare Earth Fluoride Nanoparticles. 2014 , 118, 1213-1228	24
1458	Upconversion nanoparticle-based ligase-assisted method for specific and sensitive detection of T790M mutation in epidermal growth factor receptor. 2014 , 62, 120-6	15
1457	Tuning crystal field symmetry of hexagonal NaY _{0.92} Yb _{0.05} Er _{0.03} F ₄ by Ti ⁴⁺ codoping for high-performance upconversion. 2014 , 613, 253-259	11
1456	DNA-mediated biomineralization of rare-earth nanoparticles for simultaneous imaging and stimuli-responsive drug delivery. 2014 , 35, 8694-702	43
1455	Upconversion nanophosphors for solar cell applications. 2014 , 4, 34873-34895	85
1454	Lanthanide-to-lanthanide energy-transfer processes operating in discrete polynuclear complexes: can trivalent europium be used as a local structural probe?. 2014 , 20, 12172-82	22
1453	Highly biocompatible zwitterionic phospholipids coated upconversion nanoparticles for efficient bioimaging. 2014 , 86, 9749-57	50
1452	Plasmon-enhanced upconversion luminescence in single nanophosphor-nanorod heterodimers formed through template-assisted self-assembly. 2014 , 8, 9482-91	105
1451	Development of upconversion luminescent probe for ratiometric sensing and bioimaging of hydrogen sulfide. 2014 , 6, 11013-7	58
1450	Fabrication of versatile cyclodextrin-functionalized upconversion luminescence nanoplatfrom for biomedical imaging. 2014 , 86, 6508-15	42
1449	Light Management in Upconverting Nanoparticles: Ultrasmall Core/Shell Architectures to Tune the Emission Color. 2014 , 1, 662-669	52
1448	A bifunctional Cr/Yb/Tm:Ca ₃ Ga ₂ Ge ₃ O ₁₂ phosphor with near-infrared long-lasting phosphorescence and upconversion luminescence. 2014 , 53, 8638-45	127
1447	Infrared-to-visible up-conversion luminescence and energy transfer of RE ³⁺ /Yb ³⁺ (RE = Ho, Tm) co-doped SrIn ₂ O ₄ . 2014 , 67, 107-110	10
1446	Fluorescent vancomycin and terephthalate comodified europium-doped layered double hydroxides nanoparticles: synthesis and application for bacteria labelling. 2014 , 16, 1	2
1445	Impact of high ytterbium(III) concentration in the shell on upconversion luminescence of core-shell nanocrystals. 2014 , 9, 2765-70	13
1444	Upconversion fluorescence-SERS dual-mode tags for cellular and in vivo imaging. 2014 , 6, 5152-60	99
1443	Directly coat TiO ₂ on hydrophobic NaYF ₄ :Yb,Tm nanoplates and regulate their photocatalytic activities with the core size. 2014 , 2, 13486-13491	55

1442	Chemical sensing with nanoparticles as optical reporters: from noble metal nanoparticles to quantum dots and upconverting nanoparticles. 2014 , 139, 5321-34	35
1441	Functional nanomaterials for phototherapies of cancer. 2014 , 114, 10869-939	1771
1440	Ostwald Ripening, Particle Size Focusing, and Decomposition of Sub-10 nm NaREF ₄ (RE = La, Ce, Pr, Nd) Nanocrystals. 2014 , 26, 5689-5694	41
1439	An upconverted photonic nonvolatile memory. 2014 , 5, 4720	108
1438	Polymer-assisted sol-gel process for the preparation of photostimulable core/shell structured SiO ₂ /Zn ₂ SiO ₄ :Mn ²⁺ particles. 2014 , 148, 1055-1063	21
1437	Morphology control, luminescence and energy transfer properties of NaCeF ₄ and NaCeF ₄ :Tb ³⁺ /Yb ³⁺ nanocrystals. 2014 , 6, 9703-12	13
1436	Hydrothermal synthesis of ordered β -NaYF ₄ nanorod self-assemblies with multicolor up- and down-conversions. 2014 , 16, 1163	24
1435	Enhancing Optical Up-Conversion Through Electrodynamical Coupling with Ancillary Chromophores. 2014 , 118, 23535-23544	4
1434	In-vitro and in-vivo imaging of prostate tumor using NaYF ₄ : Yb, Er up-converting nanoparticles. 2014 , 20, 335-41	6
1433	Probing the Structure of NaYF ₄ Nanocrystals using Synchrotron-Based Energy-Dependent X-ray Photoelectron Spectroscopy. 2014 , 118, 21639-21646	10
1432	Magnetically engineered semiconductor quantum dots as multimodal imaging probes. 2014 , 26, 6367-86	125
1431	PET imaging with multimodal upconversion nanoparticles. 2014 , 43, 5535-45	17
1430	Real-Time-Monitoring of the Synthesis of β -NaYF ₄ :17% Yb,3% Er Nanocrystals Using NIR-to-Visible Upconversion Luminescence. 2014 , 118, 13238-13247	34
1429	Multispectral guided fluorescence diffuse optical tomography using upconverting nanoparticles. 2014 , 104, 073703	8
1428	Enhanced red upconversion luminescence by codoping Ce ³⁺ in β -NaY(Gd _{0.4})F ₄ :Yb ³⁺ /Ho ³⁺ nanocrystals. 2014 , 2, 5327-5334	84
1427	Solid solubility of rare earth elements (Nd, Eu, Tb) in In ₂ -xSn _x O ₃ - effect on electrical conductivity and optical properties. 2014 , 43, 9620-32	14
1426	Synthesis, structure and luminescent properties of a new Vernier phase Lu ₇ O ₆ F ₉ doped by Eu ³⁺ as potential scintillator with unique lath tube architecture. 2014 , 32, 686-690	10
1425	Synergistic plasmonic and photonic crystal light-trapping: architectures for optical up-conversion in thin-film solar cells. 2014 , 22 Suppl 1, A1-12	26

1424	Facile template free synthesis of $\text{KLa}(\text{MoO}_4)_2\text{:Eu}^{3+}, \text{Tb}^{3+}$ microspheres and their multicolor tunable luminescence. 2014 , 43, 5382-92	57
1423	Strong Stokes and upconversion luminescence from ultrasmall Ln^{3+} -doped BiF_3 ($\text{Ln}=\text{Eu}^{3+}, \text{Yb}^{3+}/\text{Er}^{3+}$) nanoparticles confined in a polymer matrix. 2014 , 9, 447-51	38
1422	Multicolor tuning of lanthanide-doped nanoparticles by single wavelength excitation. 2014 , 47, 1378-85	349
1421	Hollow spherical rare-earth-doped yttrium oxysulfate: A novel structure for upconversion. 2014 , 7, 1093-1102	38
1420	Polymeric optodes based on upconverting nanorods for fluorescence measurements of Pb^{2+} in complex samples. 2014 , 192, 51-55	17
1419	A review of synthetic methods for the production of upconverting lanthanide nanoparticles. 2014 , 07, 1330007	21
1418	Intense ultraviolet upconversion emission from water-dispersed colloidal $\text{YF}_3\text{:Yb}^{3+}/\text{Tm}^{3+}$ rhombic nanodisks. 2014 , 6, 753-7	49
1417	Multiphoton excited fluorescent materials for frequency upconversion emission and fluorescent probes. 2014 , 26, 5400-28	66
1416	Lanthanide-Doped Luminescent Nanomaterials. 2014 ,	42
1415	La_2O_3 Doped Carbonaceous Microspheres: A Novel Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions with Ultrahigh Mass Activity. 2014 , 118, 20229-20237	33
1414	Direct synthesis of hexagonal NaGdF_4 nanocrystals from a single-source precursor: upconverting $\text{NaGdF}_4\text{:Yb}^{3+}, \text{Tm}^{3+}$ and its composites with TiO_2 for near-IR-driven photocatalysis. 2014 , 9, 2415-21	39
1413	Smart chemistry in polymeric nanomedicine. <i>Chemical Society Reviews</i> , 2014 , 43, 6982-7012	58.5 155
1412	Efficient gene delivery and multimodal imaging by lanthanide-based upconversion nanoparticles. 2014 , 30, 13042-51	42
1411	Cross Relaxation Induced Pure Red Upconversion in Activator- and Sensitizer-Rich Lanthanide Nanoparticles. 2014 , 26, 5183-5186	158
1410	One-Stone-Two-Birds Modulation for Na_3ScF_6 -Based Novel Nanocrystals: Simultaneous Morphology Evolution and Luminescence Tuning. 2014 , 14, 3257-3263	21
1409	$\text{Nd}_2\text{O}_3/\text{Au}$ nanocomposites: upconversion broadband emission and enhancement under near-infrared light excitation. 2014 , 2, 5857-5863	31
1408	Upconversion-Luminescent Core/Mesoporous-Silica-Shell-Structured $\text{NaYF}_4\text{:Yb}^{3+}, \text{Er}^{3+}@ \text{SiO}_2@m\text{SiO}_2$ Composite Nanospheres: Fabrication and Drug-Storage/Release Properties. 2014 , 2014, 1906-1913	30
1407	Ostwald-ripening and particle size focussing of sub-10 nm NaYF_4 upconversion nanocrystals. 2014 , 6, 14523-30	70

1406	Inorganic-organic hybrid nanoprobe for NIR-excited imaging of hydrogen sulfide in cell cultures and inflammation in a mouse model. 2014 , 10, 4874-85	72
1405	White luminescence of Ho ³⁺ /Tm ³⁺ /Yb ³⁺ -codoped CaWO ₄ synthesized via citrate complex route assisted by microwave irradiation. 2014 , 24, s134-s140	8
1404	Morphology control and multicolor up-conversion luminescence of GdOF:Yb ³⁺ /Er ³⁺ , Tm ³⁺ , Ho ³⁺ nano/submicrocrystals. 2014 , 16, 10779-87	29
1403	Novel fluorite structured superparamagnetic RbGdF ₄ nanocrystals as versatile upconversion host. 2014 , 53, 10257-65	12
1402	Yb ₂ O ₃ /Au Upconversion Nanocomposites with Broad-Band Excitation for Solar Cells. 2014 , 118, 3258-3265	40
1401	Pure near-infrared to near-infrared upconversion of multifunctional Tm ³⁺ and Yb ³⁺ co-doped NaGd(WO ₄) ₂ nanoparticles. 2014 , 2, 4495-4501	33
1400	Sub-10 nm BaLaF:Mn/Yb/Er nanoprobe for dual-modal synergistic in vivo upconversion luminescence and X-ray bioimaging. 2014 , 2, 6527-6533	22
1399	Turn-on detection of a cancer marker based on near-infrared luminescence energy transfer from NaYF ₄ :Yb,Tm/NaGdF ₄ core-shell upconverting nanoparticles to gold nanorods. 2014 , 30, 13085-91	55
1398	Facile one-pot synthesis of hydrophilic NaYF ₄ :Yb,Er@NaYF ₄ :Yb active-core/active-shell nanoparticles with enhanced upconversion luminescence. 2014 , 114, 80-83	28
1397	Ultra-small fluorescent inorganic nanoparticles for bioimaging. 2014 , 2, 2793-2818	94
1396	Anti-biofouling polymer-decorated lutetium-based nanoparticulate contrast agents for in vivo high-resolution trimodal imaging. 2014 , 10, 2429-38	49
1395	Up-conversion nanoparticle assembled mesoporous silica composites: synthesis, plasmon-enhanced luminescence, and near-infrared light triggered drug release. 2014 , 6, 3250-62	58
1394	Near-infrared light-mediated photoactivation of a platinum antitumor prodrug and simultaneous cellular apoptosis imaging by upconversion-luminescent nanoparticles. 2014 , 53, 1012-6	248
1393	Growth of hexagonal NaGdF ₄ nanocrystals based on cubic Ln ³⁺ : CaF ₂ precursors and the multi-color upconversion emissions. 2014 , 591, 370-376	7
1392	Mild molten-salt synthesis and photoluminescence property of LaF ₃ and its white-light emission with Eu doping. 2014 , 146, 150-156	5
1391	Systematic analysis of spectroscopic characteristics of the lanthanide and actinide ions with the 4f and 5f (N= 1-4) electronic configurations in a free state. 2014 , 599, 93-101	9
1390	Effect of processing parameters on structural, morphological and optical Y ₂ O ₃ :Yb ³⁺ /Ho ³⁺ powders characteristics. 2014 , 25, 1449-1454	10
1389	Water-soluble lanthanide upconversion nanophosphors: Synthesis and bioimaging applications in vivo. 2014 , 273-274, 100-110	116

1388	Surfactant-assisted hydrothermal synthesis of octahedral structured NaGd(MoO ₄) ₂ :Eu ³⁺ /Tb ³⁺ and tunable photoluminescent properties. 2014 , 36, 1865-1870	24
1387	Sensitized luminescence of water-dispersible CaF ₂ : RE ³⁺ (RE=Eu, Tb, Ce/Tb) nanoparticles through surfactant coating ligands. 2014 , 151, 18-21	20
1386	Up-converting NaYF ₄ :0.1%Tm ³⁺ , 20%Yb ³⁺ nanoparticles as luminescent labels for deep-tissue optical imaging. 2014 , 32, 207-212	9
1385	Enzyme-induced modulation of the emission of upconverting nanoparticles: towards a new sensing scheme for glucose. 2014 , 59, 14-20	23
1384	Optimization of Er ³⁺ -doped TiO ₂ -thin films for infrared light up-conversion. 2014 , 550, 499-503	16
1383	Elastic, thermodynamic and electronic properties of LaF ₃ under pressure from first principles. 2014 , 89, 57-64	6
1382	Paradigms and challenges for bioapplication of rare earth upconversion luminescent nanoparticles: small size and tunable emission/excitation spectra. 2014 , 47, 1001-9	287
1381	Highly intense upconversion luminescence in Yb/Er:NaGdF ₄ @NaYF ₄ core-shell nanocrystals with complete shell enclosure of the core. 2014 , 43, 11299-304	113
1380	Multicolor barcoding in a single upconversion crystal. 2014 , 136, 4893-6	302
1379	Phase-Modified Up-Conversion Luminescence in Er-Doped Single-Crystal PbTiO ₃ Nanofibers. 2014 , 118, 5486-5493	26
1378	Low-Temperature Fluorination Route to Lanthanide-Doped Monoclinic ScOF Host Material for Tunable and Nearly Single Band Up-Conversion Luminescence. 2014 , 118, 10314-10320	32
1377	Texture and Phase Recognition Analysis of β -NaYF ₄ Nanocrystals. 2014 , 118, 11404-11408	7
1376	Upconversion nanoparticles: design, nanochemistry, and applications in theranostics. 2014 , 114, 5161-214	1742
1375	Physico-Chemical and Biochemical Properties of Bioconjugates. 2014 , 431-443	0
1374	Enhancement of near-infrared to near-infrared upconversion emission in the CeO ₂ /Er ³⁺ , Tm ³⁺ , Yb ³⁺ inverse opals. 2014 , 39, 918-21	9
1373	Yellow to violet upconversion processes of Nd ³⁺ in neat Cs ₂ NaNdCl ₆ elpasolite. 2014 , 37, 24-27	1
1372	Large enhancements of NaYF ₄ :Yb/Er/Gd nanorod upconversion emissions via coupling with localized surface plasmon of Au film. 2014 , 25, 185401	38
1371	Near-Infrared Light-Mediated Photoactivation of a Platinum Antitumor Prodrug and Simultaneous Cellular Apoptosis Imaging by Upconversion-Luminescent Nanoparticles. 2014 , 126, 1030-1034	59

1370	Preparation of core-shell NaGdF ₄ nanoparticles doped with luminescent lanthanide ions to be used as upconversion-based probes. 2014 , 9, 1634-44	386
1369	Multihydroxy dendritic upconversion nanoparticles with enhanced water dispersibility and surface functionality for bioimaging. 2014 , 6, 7719-27	62
1368	One-pot template-free synthesis of NaYF ₄ upconversion hollow nanospheres for bioimaging and drug delivery. 2014 , 9, 1655-62	16
1367	NaYF ₄ :Yb,Tm nanocrystals and TiO ₂ inverse opal composite films: a novel device for upconversion enhancement and solid-based sensing of avidin. 2014 , 6, 5859-70	67
1366	In situ fabrication of EuF ₃ nanocrystals/poly (N-isopropylacrylamide)-co-polyacrylic acid nanogels and their thermo- and pH-sensitive performance. 2014 , 187, 15-20	3
1365	Synthesis and luminescence properties of CeF ₃ :Tb ³⁺ nanodisks via ultrasound assisted ionic liquid method. 2014 , 32, 508-513	19
1364	A general strategy to fabricate ligand-free water-soluble up-conversion nanoparticles. 2014 , 613, 18-24	6
1363	Synthesis of brightly PEGylated luminescent magnetic upconversion nanophosphors for deep tissue and dual MRI imaging. 2014 , 10, 160-8	54
1362	Recent Advance of Biological Molecular Imaging Based on Lanthanide-Doped Upconversion-Luminescent Nanomaterials. 2014 , 4, 129-154	88
1361	One-Pot Solvothermal Synthesis of Highly Emissive, Sodium-Codoped, LaF ₃ and BaLaF ₅ Core-Shell Upconverting Nanocrystals. 2014 , 4, 69-86	14
1360	Lanthanide-Based Upconversion Nanophosphors for Bioimaging. 2014 , 299-319	
1359	Chemical Strategies for the Development of Multimodal Imaging Probes Using Nanoparticles. 2014 , 355-387	
1358	Energy Transfer from Sn ²⁺ to RE ³⁺ Cations in ZnO/B ₂ O ₅ Glass. 2014 , 87, 556-563	4
1357	An Upconversion Nanoparticle with Orthogonal Emissions Using Dual NIR Excitations for Controlled Two-Way Photoswitching. 2014 , 126, 14647-14651	16
1356	Ligase-assisted, upconversion luminescence resonance energy transfer-based method for specific and sensitive detection of V600E mutation in the BRAF gene. 2014 , 4, 56235-56240	9
1355	Medium-dependent resonance energy transfer: a controlling role for three-center upconversion. 2014 ,	
1354	Investigations on luminescence performance of Er ³⁺ /Sm ³⁺ ions activated in BaGdF ₅ nanocrystals. 2015 , 19, 176-181	52
1353	Realizing up-conversion fluorescence tuning in lanthanide-doped nanocrystals by femtosecond pulse shaping method. 2015 , 5, 13337	14

1352	Designing small silicon quantum dots with low reorganization energy. 2015 , 92,	13
1351	Optical Properties of Luminescent Materials. 2015 , 929-962	4
1350	A Phosphorescent Iridium(III) Complex-Modified Nanoprobe for Hypoxia Bioimaging Via Time-Resolved Luminescence Microscopy. 2015 , 2, 1500107	82
1349	Simultaneous excitation and emission enhancements in upconversion luminescence using plasmonic double-resonant gold nanorods. 2015 , 5, 15235	55
1348	Strong correlation of the electrical properties, up-conversion photoluminescence, and phase structure in Er ³⁺ /Yb ³⁺ co-doped (1-x)K _{0.5} Na _{0.5} NbO ₃ -xLiNbO ₃ ceramics. 2015 , 107, 192901	31
1347	Rare Earth Ion-Doped Upconversion Nanocrystals: Synthesis and Surface Modification. 2014 , 5, 1-25	57
1346	Synthesis and novel luminescence properties of one-dimension BaMoO ₄ :Ln ³⁺ nanostructures. 2015 , 72, 269-275	2
1345	Energy Migration Upconversion in Manganese(II)-Doped Nanoparticles. 2015 , 54, 13312-7	57
1344	White-Light Emission from an Integrated Upconversion Nanostructure: Toward Multicolor Displays Modulated by Laser Power. 2015 , 127, 11693-11697	24
1343	Upconverting-nanoparticle-assisted photochemistry induced by low-intensity near-infrared light: how low can we go?. 2015 , 21, 9165-70	66
1342	Mussel Byssus-Like Reversible Metal-Chelated Supramolecular Complex Used for Dynamic Cellular Surface Engineering and Imaging. 2015 , 25, 3775-3784	59
1341	Aktivierung molekularer Schalter mit sichtbarem Licht. 2015 , 127, 11494-11506	94
1340	Red, Green, and Blue Luminescence by Carbon Dots: Full-Color Emission Tuning and Multicolor Cellular Imaging. 2015 , 127, 5450-5453	143
1339	Visible-Light-Activated Molecular Switches. 2015 , 54, 11338-49	483
1338	Mesostructured Composite Materials with Electrically Tunable Upconverting Properties. 2015 , 11, 5572-80	27
1337	Core-Shell Upconversion Nanoparticle@Metal-Organic Framework Nanoprobes for Luminescent/Magnetic Dual-Mode Targeted Imaging. 2015 , 27, 4075-80	294
1336	White-Light Emission from an Integrated Upconversion Nanostructure: Toward Multicolor Displays Modulated by Laser Power. 2015 , 54, 11531-5	132
1335	Photoluminescence Properties of Er/Pr-Doped K _{0.5} Na _{0.5} NbO ₃ Ferroelectric Ceramics. 2015 , 98, 2139-2145	17

1334	Infrared-to-Visible Light Conversion in Er(3+) -Yb(3+) :Lu ₃ Ga ₅ O ₁₂ Nanogarnets. 2015 , 16, 3928-36	9
1333	Modular Integration of Upconverting Nanocrystal-Dendrimer Composites for Folate Receptor-Specific NIR Imaging and Light-Triggered Drug Release. 2015 , 11, 6078-90	55
1332	Energy Migration Upconversion in Manganese(II)-Doped Nanoparticles. 2015 , 127, 13510-13515	24
1331	An anion-induced hydrothermal oriented-explosive strategy for the synthesis of porous upconversion nanocrystals. 2015 , 5, 456-68	10
1330	Enhancing Solar Cell Efficiency Using Photon Upconversion Materials. 2015 , 5, 1782-1809	108
1329	Silica-coated upconversion lanthanide nanoparticles: The effect of crystal design on morphology, structure and optical properties. 2015 , 6, 2290-9	10
1328	Synthesis of Luminescent Ag Nanoclusters with Antibacterial Activity. 2015 , 2015, 1-8	3
1327	Rare Earth Doped Apatite Nanomaterials for Biological Application. 2015 , 2015, 1-6	27
1326	. 2015 ,	55
1325	Nanoscale materials for hyperthermal theranostics. 2015 , 7, 7115-26	38
1324	Two-step ion-exchange synthetic strategy for obtaining monodisperse NaYF ₄ :Ln ³⁺ nanostructures with multicolor luminescence properties. 2015 , 3, 1091-1098	11
1323	Methyl oleate-capped upconverting nanocrystals: a simple and general ligand exchange strategy to render nanocrystals dispersible in aqueous and organic medium. 2015 , 31, 5521-8	15
1322	Real-time, non-invasive monitoring of hydrogel degradation using LiYF ₄ :Yb(3+)/Tm(3+) NIR-to-NIR upconverting nanoparticles. 2015 , 7, 11255-62	47
1321	Transition-Metal Complexes for Triplet-Triplet Annihilation-Based Energy Upconversion. 2015 , 137-169	1
1320	A core-shell-shell nanoplatfom upconverting near-infrared light at 808 nm for luminescence imaging and photodynamic therapy of cancer. 2015 , 5, 10785	132
1319	Distance-dependent plasmon-enhanced fluorescence of upconversion nanoparticles using polyelectrolyte multilayers as tunable spacers. 2015 , 5, 7779	144
1318	DNA base pair resolution measurements using resonance energy transfer efficiency in lanthanide doped nanoparticles. 2015 , 10, e0117277	3
1317	Fine Tuning the Emission Properties of Nanoemitters in Multilayered Structures by Deterministic Control of their Local Photonic Environment. 2015 , 11, 2727-32	14

1316	Antigen-Loaded Upconversion Nanoparticles for Dendritic Cell Stimulation, Tracking, and Vaccination in Dendritic Cell-Based Immunotherapy. 2015 , 9, 6401-11	160
1315	Synthetic and spectroscopic studies of vanadate glaserites I: Upconversion studies of doubly co-doped (Er, Tm, or Ho):Yb:K ₃ Y(VO ₄) ₂ . 2015 , 226, 312-319	16
1314	Combustion synthesis and up-conversion luminescence of La ₂ O ₂ S:Er ³⁺ ,Yb ³⁺ nanophosphors. 2015 , 226, 255-261	27
1313	Upconversion Nanoparticles for Light-Activated Therapy. 2015 , 285-341	1
1312	Multifunctionalities of near-infrared upconversion luminescence, optical temperature sensing and long persistent luminescence in La ₃ Ga ₅ GeO ₁₄ :Cr ³⁺ ,Yb ³⁺ ,Er ³⁺ and their potential coupling. 2015 , 5, 49680-49687	36
1311	Assembly of near infra-red emitting upconverting nanoparticles and multiple Gd(III)-chelates as a potential bimodal contrast agent for MRI and optical imaging. 2015 , 44, 11331-9	17
1310	Heterogeneous core/shell fluoride nanocrystals with enhanced upconversion photoluminescence for in vivo bioimaging. 2015 , 7, 10775-80	35
1309	Luminescent lanthanide nanomaterials: an emerging tool for theranostic applications. 2015 , 10, 1477-91	30
1308	Upconverting nanocomposites dispersed in urea-containing acrylics. 2015 , 3, 5556-5565	6
1307	One-step synthesis of carboxyl-functionalized rare-earth fluoride nanoparticles for cell imaging and drug delivery. 2015 , 5, 33999-34007	9
1306	Controlled Co-Assembly of Nanoparticles and Polymer into Ultralong and Continuous One-Dimensional Nanochains. 2015 , 137, 8030-3	31
1305	Optical depletion mechanism of upconverting luminescence and its potential for multi-photon STED-like microscopy. 2015 , 23, 32401-12	35
1304	Effects of surface chemistry on the optical properties and cellular interaction of lanthanide-based nanoparticles. 2015 ,	
1303	Increasing depth penetration in biological tissue imaging using 808-nm excited Nd ³⁺ /Yb ³⁺ /Er ³⁺ -doped upconverting nanoparticles. 2015 , 20, 86008	17
1302	Bioorthogonal fluorescent labels: a review on combined forces. 2015 , 3, 042001	43
1301	Near-IR Triggered Photon Upconversion: Imaging, Detection, and Therapy. 2015 , 47, 273-347	9
1300	Sequential growth of sandwiched NaYF ₄ :Yb/Er@NaYF ₄ :Yb@NaNdF ₄ :Yb core-shell-shell nanoparticles for photodynamic therapy. 2015 , 357, 2408-2414	23
1299	Mechanically Induced Light Emission and Infrared-Laser-Induced Upconversion in the Er-Doped CaZnOS Multifunctional Piezoelectric Semiconductor for Optical Pressure and Temperature Sensing. 2015 , 119, 28136-28142	84

1298	Yb ³⁺ /Er ³⁺ -Codoped BiO Nanospheres: Probe for Upconversion Luminescence Imaging and Binary Contrast Agent for Computed Tomography Imaging. 2015 , 7, 26346-54	65
1297	Harmonization of upconverting nanocrystals and photosensitizer for antimicrobial application. 2015 , 5, 102416-102423	4
1296	Efficient tailoring of the surface of upconversion nanoparticles via surface-initiated cationic ring-opening polymerization. 2015 , 5, 97764-97772	9
1295	Crystal transition control of NaYF ₄ upconversion microcrystals through addition of Na ₂ HPO ₄ . 2015 , 88, 514-519	3
1294	Bench-scale evaluation of water disinfection by visible-to-UVC upconversion under high-intensity irradiation. 2015 , 153, 405-11	11
1293	DNA-mediated excitonic upconversion FRET switching. 2015 , 17, 115007	7
1292	Aptamers Selected by Cell-SELEX for Molecular Imaging. 2015 , 81, 162-71	13
1291	Highly modified spontaneous emission in NaY(MoO ₄) ₂ :Yb ³⁺ /Er ³⁺ inverse opal photonic crystals. 2015 , 5, 104862-104869	16
1290	Novel blue cooperative up-conversion luminescence of fully concentrated Yb-based LiYb(MoO ₄) ₂ phosphor. 2015 , 161, 248-250	8
1289	Inkjet printing of upconversion nanoparticles for anti-counterfeit applications. 2015 , 7, 4423-31	268
1288	Near-infrared to visible and near-infrared upconversion of monoclinic Gd ₂ O ₃ :Yb ³⁺ /Tm ³⁺ nanoparticles prepared by laser ablation in liquid for fluorescence imaging. 2015 , 348, 60-65	17
1287	Upconversion Luminescence of Rare-Earth-Doped Y ₂ O ₃ Nanoparticle with Metal Nano-Cap. 2015 , 119, 1175-1179	39
1286	Upconversion Luminescence of Lanthanide Ion-Doped Nanocrystals. 2015 , 73-119	3
1285	Structure, upconversion photoluminescence, and dielectric properties of Ho ³⁺ - and Yb ³⁺ -codoped tetragonal tungsten bronze Sr ₄ La ₂ Ti ₄ Nb ₆ O ₃₀ . 2015 , 64, 395-400	4
1284	Upconversion Nanoparticles for Biomedical Imaging. 2015 , 187-232	
1283	Graphene quantum dots: versatile photoluminescence for energy, biomedical, and environmental applications. 2015 , 3, 1157-1165	158
1282	Multifunctional hollow CaF ₂ :Yb(3+)/Er(3+)/Mn(2+)-poly(2-Aminoethyl methacrylate) microspheres for Pt(IV) pro-drug delivery and tri-modal imaging. 2015 , 50, 154-63	53
1281	Luminescence-driven reversible handedness inversion of self-organized helical superstructures enabled by a novel near-infrared light nanotransducer. 2015 , 27, 2065-9	191

1280	Controllable salt-assisted sonochemical synthesis of $\text{Na}_x\text{Ln}_y\text{F}_{x+3y}$ (Ln=Sm, Eu) nanostructures. 2015 , 41, 5032-5040	4
1279	Directional energy migration in nanoparticles of crystalline metal complexes. 2015 , 27, 1832-6	2
1278	Intense ultraviolet upconversion in water dispersible $\text{SrF}_2:\text{Tm}^{3+}, \text{Yb}^{3+}$ nanoparticles: the effect of the environment on light emissions. 2015 , 3, 3108-3113	72
1277	Strain-induced modification of optical selection rules in lanthanide-based upconverting nanoparticles. 2015 , 15, 1891-7	85
1276	Ultrathin Europium Oxide Nanoplatelets: Hidden Parameters and Controlled Synthesis, Unusual Crystal Structure, and Photoluminescence Properties. 2015 , 27, 965-974	16
1275	Laser polarization and phase control of up-conversion fluorescence in rare-earth ions. 2014 , 4, 7295	18
1274	An Nd^{3+} -sensitized upconversion nanophosphor modified with a cyanine dye for the ratiometric upconversion luminescence bioimaging of hypochlorite. 2015 , 7, 4105-13	71
1273	High-efficiency in vitro and in vivo detection of Zn^{2+} by dye-assembled upconversion nanoparticles. 2015 , 137, 2336-42	204
1272	Aptamer-mediated up-conversion core/MOF shell nanocomposites for targeted drug delivery and cell imaging. 2015 , 5, 7851	125
1271	Ultrasensitive in vivo detection of primary gastric tumor and lymphatic metastasis using upconversion nanoparticles. 2015 , 9, 2120-9	73
1270	NaF -mediated controlled-synthesis of multicolor $\text{Na}_x\text{ScF}_{(3+x)}:\text{Yb}/\text{Er}$ upconversion nanocrystals. 2015 , 7, 4048-54	30
1269	Time-resolved luminescent biosensing based on inorganic lanthanide-doped nanoprobe. 2015 , 51, 4129-43	73
1268	Bio-inspired synthesis of $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ red nanophosphor for eco-friendly photocatalysis. 2015 , 141, 149-60	65
1267	Cytotoxicity and non-specific cellular uptake of bare and surface-modified upconversion nanoparticles in human skin cells. 2015 , 8, 1546-1562	59
1266	Nanoparticles in photodynamic therapy. 2015 , 115, 1990-2042	1854
1265	Host matrix impact on Er^{3+} upconversion emission and its temperature dependence. 2015 , 5, 16067-16073	36
1264	Upconversion improvement by the reduction of Na^{+} -vacancies in Mn^{2+} doped hexagonal $\text{NaYbF}_6:\text{Er}^{3+}$ nanoparticles. 2015 , 44, 4133-40	37
1263	Upconversion of rare Earth nanomaterials. 2015 , 66, 619-42	81

1262	Dual-model upconversion luminescence from NaGdF ₄ :Nd/Yb/Tm@NaGdF ₄ :Eu/Tb core-shell nanoparticles. 2015 , 628, 240-244	59
1261	Tuning Red Upconversion Emission in Single LiYF ₄ :Yb ³⁺ /Ho ³⁺ Microparticle. 2015 , 119, 2349-2355	45
1260	Preparation, Structure, and Up-Conversion Luminescence of Yb ³⁺ /Er ³⁺ Codoped SrIn ₂ O ₄ Phosphors. 2015 , 98, 1182-1187	16
1259	A simple strategy based on upconversion nanoparticles for a fluorescent resonant energy transfer biosensor. 2015 , 3, 458-464	27
1258	Novel composite layer based on electrospun polymer nanofibers for efficient light scattering. 2015 , 7, 68-74	19
1257	Shape-controllable synthesis and enhanced upconversion luminescence of Li ⁺ doped NaLuF ₄ :Yb ³⁺ ,Ln ³⁺ (Ln = Tm, Ho) microcrystals. 2015 , 39, 2565-2572	20
1256	Photoluminescence, ferroelectric, dielectric and piezoelectric properties of Er-doped BNTBT multifunctional ceramics. 2015 , 336, 314-320	30
1255	Photon upconversion nanomaterials. <i>Chemical Society Reviews</i> , 2015 , 44, 1299-301	58.5 263
1254	Synthesis of vis/NIR-driven hybrid photocatalysts by electrostatic assembly of NaYF ₄ :Yb, Tm nanocrystals on g-C ₃ N ₄ nanosheets. 2015 , 146, 87-90	25
1253	Er ³⁺ -doped Na _{0.5} Bi _{0.5} TiO ₃ ferroelectric thin films with enhanced electrical properties and strong green up-conversion luminescence. 2015 , 119, 937-940	9
1252	Up-Conversion Nanoparticles for Early Cancer Diagnosis. 2015 , 1-19	
1251	Highly efficient up-conversion luminescence in BaCl ₂ :Er ³⁺ -phosphors via simultaneous multiwavelength excitation. 2015 , 8, 032301	23
1250	Design, synthesis, and characterization of graphene-nanoparticle hybrid materials for bioapplications. 2015 , 115, 2483-531	514
1249	Inorganic lanthanide nanoprobe for background-free luminescent bioassays. 2015 , 58, 156-177	43
1248	Construction of LRET-based nanoprobe using upconversion nanoparticles with confined emitters and bared surface as luminophore. 2015 , 137, 3421-7	160
1247	Enhancing the imaging and biosafety of upconversion nanoparticles through phosphonate coating. 2015 , 9, 3293-306	113
1246	Understanding Energy Transfer Mechanisms for Tunable Emission of Yb ³⁺ -Er ³⁺ Codoped GdF ₃ Nanoparticles: Concentration-Dependent Luminescence by Near-Infrared and Violet Excitation. 2015 , 119, 6852-6860	65
1245	The Fluoride Host: Nucleation, Growth, and Upconversion of Lanthanide-Doped Nanoparticles. 2015 , 3, 482-509	96

1244	Probing the nature of upconversion nanocrystals: instrumentation matters. <i>Chemical Society Reviews</i> , 2015 , 44, 1479-508	58.5	161
1243	Rare-Earth doped particles as dual-modality contrast agent for minimally-invasive luminescence and dual-wavelength photoacoustic imaging. 2014 , 4, 6562		30
1242	Rare Earth Based Anisotropic Nanomaterials: Synthesis, Assembly, and Applications. 2015 , 157-208		
1241	Er ³⁺ doped bismuth oxychloride hierarchical microspheres with enhanced photocatalytic properties. 2015 , 158, 229-232		7
1240	Multiphoton harvesting metal-organic frameworks. 2015 , 6, 7954		122
1239	pH value manipulated phase transition, microstructure evolution and tunable upconversion luminescence in Yb(3+)-Er(3+) codoped LiYF ₄ /YF ₃ nanoparticles. 2015 , 44, 15583-90		13
1238	Doping concentration of Eu ³⁺ as a fluorescence probe for phase transformation of zirconia. 2015 , 33, 717-725		20
1237	Colloidal K ₂ YF ₄ :Yb ³⁺ ,Er ³⁺ /Tm ³⁺ nanocrystals: tunable multicolor up-conversion luminescence from UV to NIR regions. 2015 , 5, 66807-66814		12
1236	Molecularly imprinted upconversion nanoparticles for highly selective and sensitive sensing of Cytochrome c. 2015 , 74, 498-503		61
1235	Assessing Single Upconverting Nanoparticle Luminescence by Optical Tweezers. 2015 , 15, 5068-74		42
1234	Upconversion luminescence in erbium doped transparent oxyfluoride glass ceramics containing hexagonal NaYF ₄ nanocrystals. 2015 , 35, 3665-3671		47
1233	Active-core/active-shell nanostructured design: an effective strategy to enhance Nd ³⁺ /Yb ³⁺ cascade sensitized upconversion luminescence in lanthanide-doped nanoparticles. 2015 , 3, 7652-7657		99
1232	Up-conversion luminescence properties of lanthanide-doped LuF ₃ with different morphologies synthesized via a facile ionothermal process. 2015 , 17, 2147-2152		8
1231	A triple-dimensional sensing chip for discrimination of eight antioxidants based on quantum dots and graphene. 2015 , 74, 313-7		13
1230	Lanthanide Nanoparticles: From Design toward Bioimaging and Therapy. 2015 , 115, 10725-815		746
1229	Clearance Pathways and Tumor Targeting of Imaging Nanoparticles. 2015 , 9, 6655-74		572
1228	Ln(3+)-doped hydroxyapatite nanocrystals: controllable synthesis and cell imaging. 2015 , 17, 20301-7		54
1227	A core/shell/satellite anticancer platform for 808 NIR light-driven multimodal imaging and combined chemo-/photothermal therapy. 2015 , 7, 13747-58		73

1226	Ca/Sr ratio dependent structure and up-conversion luminescence of (Ca _{1-x} Sr _x)In ₂ O ₄ : Yb ³⁺ /Ho ³⁺ phosphors. 2015 , 5, 59403-59407	10
1225	Growth of lanthanide-doped LiGdF ₄ nanoparticles induced by LiLuF ₄ core as tri-modal imaging bioprobes. 2015 , 65, 115-23	43
1224	Metal-Organic Derivatives with Fluorinated Ligands as Precursors for Inorganic Nanomaterials. 2015 , 115, 8379-448	112
1223	Simultaneous realization of Hg(2+) sensing, magnetic resonance imaging and upconversion luminescence in vitro and in vivo bioimaging based on hollow mesoporous silica coated UCNPs and ruthenium complex. 2015 , 7, 13877-87	62
1222	Synthesis of magnetic and upconversion nanocapsules as multifunctional drug delivery system. 2015 , 229, 322-329	6
1221	Phase-Dependent Enhancement of the Green-Emitting Upconversion Fluorescence in LaVO ₄ :Yb(3+), Er(3+). 2015 , 54, 7325-34	52
1220	Enhanced visible and mid-IR emissions in Er/Yb-codoped K _{0.5} Na _{0.5} NbO ₃ ferroelectric ceramics. 2015 , 41, 14041-14048	20
1219	Simultaneous control of morphology, phase and optical absorption of hydrophilic copper sulfide-based photothermal nanoagents through Cu/S precursor ratios. 2015 , 648, 98-103	14
1218	Polarization-Modified Upconversion Luminescence in Er-Doped Single-Crystal Perovskite PbTiO ₃ Nanofibers. 2015 , 119, 17326-17333	15
1217	Synthesis of Nd ³⁺ /Yb ³⁺ sensitized upconversion core-shell nanocrystals with optimized hosts and doping concentrations. 2015 , 5, 62899-62904	12
1216	Incorporation of Zn(2+) ions into BaTiO ₃ :Er(3+)/Yb(3+) nanophosphor: an effective way to enhance upconversion, defect luminescence and temperature sensing. 2015 , 17, 20741-53	167
1215	Upconversion Nanoparticle-Based Nanocomposites. 2015 , 121-157	1
1214	Sodium yttrium fluoride based upconversion nano phosphors for biosensing. 2015 , 619, 012043	3
1213	Enhanced visible light photocatalytic activity by up-conversion phosphors modified N-doped TiO ₂ . 2015 , 176-177, 594-600	52
1212	Intracellular Adenosine Triphosphate Deprivation through Lanthanide-Doped Nanoparticles. 2015 , 137, 6550-8	70
1211	Bulk glass ceramics containing Yb ³⁺ /Er ³⁺ : β -NaGdF ₄ nanocrystals: Phase-separation-controlled crystallization, optical spectroscopy and upconverted temperature sensing behavior. 2015 , 638, 21-28	129
1210	Regiospecific Hetero-Assembly of DNA-Functionalized Plasmonic Upconversion Superstructures. 2015 , 137, 5272-5	58
1209	Near-infrared (NIR) emitting Nd/Yb(III) complexes sensitized by MLCT states of Ru(II)/Ir(III) metalloligands in the visible light region. 2015 , 44, 15212-9	30

1208	PLA-PEG Coated Multifunctional Imaging Probe for Targeted Drug Delivery. 2015 , 12, 1885-92	24
1207	Tuning into blue and red: europium single-doped nano-glass-ceramics for potential application in photosynthesis. 2015 , 3, 3141-3149	45
1206	Electroluminescence from europium(III) complexes. 2015 , 293-294, 228-249	166
1205	Synthesis of 3D hierarchical architectures of Tb ₂ (CO ₃) ₃ : Eu ³⁺ phosphor and its efficient energy transfer from Tb ³⁺ to Eu ³⁺ . 2015 , 50, 4503-4515	11
1204	Size/morphology induced tunable luminescence in upconversion crystals: ultra-strong single-band emission and underlying mechanisms. 2015 , 7, 9552-7	14
1203	Effect of surface grafting coefficient and chain length of fatty acids on the luminescence of neodymium ³⁺ -doped LaF ₃ nanoparticles. 2015 , 3, 1817-1822	6
1202	Improved sensitization efficiency in Er(3+) ions and SnO ₂ nanocrystals co-doped silica thin films. 2015 , 17, 11974-80	19
1201	Controllable Generation of Nitric Oxide by Near-Infrared-Sensitized Upconversion Nanoparticles for Tumor Therapy. 2015 , 25, 3049-3056	161
1200	Controllable synthesis and upconversion luminescence of NaYF ₄ :Yb ³⁺ , Er ³⁺ nanocrystals. 2015 , 41, S713-S718	9
1199	Luminescence energy transfer detection of PSA in red region based on Mn ²⁺ -enhanced NaYF ₄ :Yb, Er upconversion nanorods. 2015 , 72, 282-7	39
1198	Interactions of CT DNA with hexagonal NaYF ₄ co-doped with Yb(3+)/Tm(3+) upconversion particles. 2015 , 137, 995-1003	5
1197	Tailoring Plasmonic Enhanced Upconversion in Single NaYF ₄ :Yb(3+)/Er(3+) Nanocrystals. 2015 , 5, 10196	34
1196	Toward point-of-care diagnostics with consumer electronic devices: the expanding role of nanoparticles. 2015 , 5, 22256-22282	79
1195	Lanthanide cation-induced tuning of surface capping properties in zinc sulfide nanoparticles: an infrared absorption study. 2015 , 5, 32920-32932	20
1194	BaCl ₂ :Er ³⁺ A High Efficient Upconversion Phosphor for Broadband Near-Infrared Photoresponsive Devices. 2015 , 98, 2508-2513	14
1193	Simultaneous enhancement of upconversion and downshifting luminescence via plasmonic structure. 2015 , 15, 2491-7	53
1192	New nanoplatforms based on UCNPs linking with polyhedral oligomeric silsesquioxane (POSS) for multimodal bioimaging. 2015 , 7, 7206-15	51
1191	Energy pooling upconversion in organic molecular systems. 2015 , 119, 4009-16	18

1190	Dissolution of upconverting fluoride nanoparticles in aqueous suspensions. 2015 , 5, 27393-27397	37
1189	Structure, synthesis, and applications of TiO ₂ nanobelts. 2015 , 27, 2557-82	247
1188	Photoluminescence imaging of Zn(2+) in living systems. <i>Chemical Society Reviews</i> , 2015 , 44, 4517-46	58.5 178
1187	Hydrothermal Targeted-Explosion Synthesis of Hollow/Porous Upconversion Nano- and Microcrystals with Potential for Luminescent Displays and Biological Imaging. 2015 , 1, 128-134	6
1186	An upconversion luminescence nanoprobe for the ultrasensitive detection of hyaluronidase. 2015 , 87, 5816-23	52
1185	Overview about the localization of nanoparticles in tissue and cellular context by different imaging techniques. 2015 , 6, 263-80	65
1184	Controlled Synthesis of Uniform Na _x ScF _{3+x} Nanopolyhedrons, Nanoplates, Nanorods, and Nanospheres Using Solvents. 2015 , 15, 2988-2993	17
1183	Efficient Tailoring of Upconversion Selectivity by Engineering Local Structure of Lanthanides in Na(x)REF(3+x) Nanocrystals. 2015 , 137, 6569-76	138
1182	Crystal cell oriented-rotation triggered phase transition of porous upconversion nanocrystals synthesis in hydrothermal system. 2015 , 3, 3948-3958	3
1181	Phonon-assisted energy back transfer-induced multicolor upconversion emission of Gd ₂ O ₃ :Yb(3+)/Er(3+) nanoparticles under near-infrared excitation. 2015 , 17, 15412-8	50
1180	Microwave-assisted synthesis and single particle spectroscopy of infrared down- and visible up-conversion in Er ³⁺ and Yb ³⁺ co-doped fluoride nanowires. 2015 , 3, 5332-5338	18
1179	Multifunctional polyelectrolyte multilayers coated onto Gd ₂ O ₃ :Yb ³⁺ ,Er ³⁺ @MSNs can be used as drug carriers and imaging agents. 2015 , 5, 41985-41993	13
1178	Light-Cured Luminescent Coatings for Photovoltaic Devices. 2015 , 361-391	1
1177	Influence of Silver Doping on the Photoluminescence of Protected Ag _n Au ₂₅ Nanoclusters: A Time-Dependent Density Functional Theory Investigation. 2015 , 119, 10766-10775	32
1176	A dual-mode luminescent probe composed of co-assembled down-conversion CdTe and up-conversion NaYF ₄ :Yb,Tm(Er) nanoparticles. 2015 , 5, 48024-48030	10
1175	Upconversion luminescence mechanisms of Er(3+) ions under excitation of an 800 nm laser. 2015 , 17, 11481-9	38
1174	Nanomaterial-based biosensors using dual transducing elements for solution phase detection. 2015 , 140, 2916-43	27
1173	Yb ³⁺ /Er ³⁺ co-doped CaMoO ₄ : a promising green upconversion phosphor for optical temperature sensing. 2015 , 639, 325-329	142

1172	Red, green, and blue luminescence by carbon dots: full-color emission tuning and multicolor cellular imaging. 2015 , 54, 5360-3	1181
1171	A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. 2015 , 54, 34-43	60
1170	Near infrared light mediated release of doxorubicin using upconversion nanoparticles. 2015 , 51, 8477-9	44
1169	Synthesis and application of nanohybrids based on upconverting nanoparticles and polymers. 2015 , 36, 790-827	56
1168	Recent developments in multilayered polymeric particles - from fabrication techniques to therapeutic formulations. 2015 , 3, 3406-3419	20
1167	The crystal structure and upconversion properties of Yb ³⁺ , Er ³⁺ /Ho ³⁺ codoped BaLiF ₆ microcrystals with different morphologies. 2015 , 44, 6242-8	11
1166	Plasmon enhancement of luminescence upconversion. <i>Chemical Society Reviews</i> , 2015 , 44, 2940-62	58.5 178
1165	Hot Electrons Generated from Doped Quantum Dots via Upconversion of Excitons to Hot Charge Carriers for Enhanced Photocatalysis. 2015 , 137, 5549-54	85
1164	One-Step Protein Conjugation to Upconversion Nanoparticles. 2015 , 87, 10406-13	42
1163	Ytterbium-doped glass-ceramics for optical refrigeration. 2015 , 23, 4630-40	29
1162	Optical temperature sensing of rare-earth ion doped phosphors. 2015 , 5, 86219-86236	482
1161	Recent advances in energy transfer in bulk and nanoscale luminescent materials: from spectroscopy to applications. <i>Chemical Society Reviews</i> , 2015 , 44, 8714-46	58.5 141
1160	Nd ³⁺ -sensitized NaLuF ₄ luminescent nanoparticles for multimodal imaging and temperature sensing under 808 nm excitation. 2015 , 7, 17861-70	66
1159	Dual-functional semiconductor-decorated upconversion hollow spheres for high efficiency dye-sensitized solar cells. 2015 , 3, 23360-23367	31
1158	An upconversion fluorescent resonant energy transfer biosensor for hepatitis B virus (HBV) DNA hybridization detection. 2015 , 140, 7622-8	33
1157	Up/down conversion switching by adjusting the pulse width of red laser beams in LaF ₃ /m ³⁺ nanocrystals. 2015 , 40, 3580-3	16
1156	Controllable synthesis and upconversion emission of ultrasmall lanthanide-doped Sr ₂ GdF ₇ nanocrystals. 2015 , 49, 6-14	7
1155	Hybrid upconversion nanomaterials for optogenetic neuronal control. 2015 , 7, 16571-7	77

1154	Silica-modified monodisperse hexagonal lanthanide nanocrystals: synthesis and biological properties. 2015 , 7, 18096-104	28
1153	Analysing the effect of the crystal structure on upconversion luminescence in Yb ³⁺ ,Er ³⁺ -co-doped NaYF ₄ nanomaterials. 2015 , 3, 11228-11238	65
1152	High-Performance Flexible Nanostructured Silicon Solar Modules with Plasmonically Engineered Upconversion Medium. 2015 , 5, 1500761	27
1151	Red and Green Phosphors Glow on the Basis of Oxide Glass-Ceramics Doped with Eu ³⁺ and Tb ³⁺ . 2015 , 670, 107-112	1
1150	Simultaneous realization of structure manipulation and emission enhancement in NaLuF ₄ upconversion crystals. 2015 , 3, 11754-11765	19
1149	Tailoring dye-sensitized upconversion nanoparticle excitation bands towards excitation wavelength selective imaging. 2015 , 7, 18424-8	78
1148	Comment on "Intimate Coupling of Photocatalysis and Biodegradation for Degrading Phenol Using Different Light Types: Visible Light vs UV Light". 2015 , 49, 13075-6	6
1147	Doxorubicin-conjugated β -NaYF ₄ :Gd(3+)/Tb(3+) multifunctional, phosphor nanorods: a multi-modal, luminescent, magnetic probe for simultaneous optical and magnetic resonance imaging and an excellent pH-triggered anti-cancer drug delivery nanovehicle. 2015 , 7, 19501-18	30
1146	Enhanced temperature sensing response of upconversion luminescence in ZnO-CaTiO ₃ : Er(3+)/Yb(3+) nano-composite phosphor. 2015 , 150, 623-30	46
1145	Revelation of the Technological Versatility of the Eu(TTA) ₃ Phen Complex by Demonstrating Energy Harvesting, Ultraviolet Light Detection, Temperature Sensing, and Laser Applications. 2015 , 7, 18231-9	67
1144	In vivo 808 nm image-guided photodynamic therapy based on an upconversion theranostic nanoplatfrom. 2015 , 7, 14914-23	48
1143	Hidden local symmetry of Eu ³⁺ in xenotime-like crystals revealed by high magnetic fields. 2015 , 117, 055902	7
1142	Shape-Controlled Synthesis of Isotopic Yttrium-90-Labeled Rare Earth Fluoride Nanocrystals for Multimodal Imaging. 2015 , 9, 8718-28	37
1141	KF-mediated controlled-synthesis of potassium ytterbium fluorides (doped with Er ³⁺) with phase-dependent upconversion luminescence. 2015 , 17, 7182-7190	10
1140	Near-infrared light activated delivery platform for cancer therapy. 2015 , 226, 123-37	33
1139	Oleyl-hyaluronan micelles loaded with upconverting nanoparticles for bio-imaging. 2015 , 17, 1	4
1138	Upconversion luminescent nanoparticles in physical sensing and in monitoring physical processes in biological samples. 2015 , 3, 042002	20
1137	The influence of phase evolution on optical properties in rare earth doped glass ceramics containing NaYF ₄ nanocrystals. 2015 , 35, 4225-4231	18

1136	ErNaYb(Mn)F ₄ :Er(3+)/Tm(3+)@NaYF ₄ UCNPs as "Band-Shape" Luminescent Nanothermometers over a Wide Temperature Range. 2015 , 7, 20813-9	100
1135	Selective enhancement of red emission from upconversion nanoparticles via surface plasmon-coupled emission. 2015 , 5, 76825-76835	22
1134	Effects of vacancies on luminescence of Er-doped 0.93Bi _{0.5} Na _{0.5} TiO ₃ -0.07BaTiO ₃ ceramics. 2015 , 118, 034107	14
1133	Fluorescent nanoparticles for the accurate detection of drug delivery. 2015 , 12, 1881-94	21
1132	Near-Infrared Emission and Photon Energy Upconversion of Two-Dimensional Copper Silicates. 2015 , 119, 20571-20577	16
1131	Observation of upconversion white light and ultrabroad infrared emission in YbAG:Ln ³⁺ (Ln = Nd, Sm, Tb, Er). 2015 , 8, 072602	18
1130	Chemical sensing and imaging based on photon upconverting nano- and microcrystals: a review. 2015 , 3, 034004	29
1129	Effects of trisodium citrate on morphology of NaGd _{1-x} Yb _x F ₄ :Er ³⁺ nanocrystals: role of Yb ³⁺ concentration. 2015 , 121, 193-202	2
1128	Local Structure of Rare-Earth Fluorides in Bulk and Core/Shell Nanocrystalline Materials. 2015 , 27, 6495-6507	16
1127	Preparation, crystal structure and up-conversion luminescence of Er ³⁺ , Yb ³⁺ co-doped Gd ₂ (WO ₄) ₃ . 2015 , 5, 73077-73082	18
1126	Hybrid nanostructures: synthesis, morphology and functional properties. 2015 , 84, 579-600	24
1125	Near-Infrared Light Manipulated Chemoselective Reductions Enabled by an Upconversion Supersandwich Nanostructure. 2015 , 7, 19416-23	26
1124	Sensitive Detection of ssDNA Using an LRET-Based Upconverting Nanohybrid Material. 2015 , 7, 18257-65	34
1123	Prospects of optical refrigeration in oxyfluoride glasses and glass-ceramics: experiments. 2015 ,	1
1122	Nanoparticle Probes for the Detection of Cancer Biomarkers, Cells, and Tissues by Fluorescence. 2015 , 115, 10530-74	702
1121	Ultraviolet and visible upconversion luminescence in Y ₂ O ₃ :Er ³⁺ , Gd ³⁺ microcrystals by 155 nm excitation. 2015 , 32, 1856	10
1120	Upconverting/magnetic: Gd ₂ O ₃ :(Er ³⁺ ,Yb ³⁺ ,Zn ²⁺) nanoparticles for biological applications: effect of Zn ²⁺ doping. 2015 , 5, 78361-78373	26
1119	Toward NIR driven photocatalyst: Fabrication, characterization, and photocatalytic activity of NaYF ₄ :Yb(3+),Tm(3+)/g-C ₃ N ₄ nanocomposite. 2015 , 460, 264-72	37

1118	Cubic KLu3F10 nanocrystals: Mn(2+) dopant-controlled synthesis and upconversion luminescence. 2015 , 44, 17286-92	12
1117	Plasmon-induced hyperthermia: hybrid upconversion NaYF:Yb/Er and gold nanomaterials for oral cancer photothermal therapy. 2015 , 3, 8293-8302	55
1116	Synthesis of bright upconversion submicrocrystals for high-contrast imaging of latent-fingerprints with cyanoacrylate fuming. 2015 , 5, 79525-79531	35
1115	Surfactant effect on and luminescence tuning of lanthanide-doped ScPO4·2H2O microparticles. 2015 , 3, 12385-12389	15
1114	Solvothermal synthesis of Eu3+-doped holmium aluminum garnet. 2015 , 25, 384-385	3
1113	Influence of Na+ ion doping on the phase change and upconversion emissions of the GdF3: Yb3+, Tm3+ nanocrystals obtained from the designed molecular precursors. 2015 , 5, 100535-100545	18
1112	Infrared spectroscopy and luminescence spectra of Yb3+ doped ZrO2 nanophosphorPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. 2015 , 8, 399-403	12
1111	pH-Triggered SrTiO3:Er Nanofibers with Optically Monitored and Controlled Drug Delivery Functionality. 2015 , 7, 25514-21	22
1110	A NIR-to-NIR upconversion luminescence system for security printing applications. 2015 , 5, 101338-101346	43
1109	Wet-Chemical Synthesis and Manipulation of Upconversion Nanoparticles. 2015 , 21-71	
1108	Upconversion Nanoparticles for Other Applications. 2015 , 375-408	0
1107	Lanthanide-doped nanocrystals: strategies for improving the efficiency of upconversion emission and their physical understanding. 2015 , 16, 505-21	44
1106	Visible-to-UVC upconversion efficiency and mechanisms of Lu7O6F9:Pr3+ and Y2SiO5:Pr3+ ceramics. 2015 , 160, 202-209	25
1105	Lanthanide-doped luminescent nano-bioprobes for the detection of tumor markers. 2015 , 7, 4274-90	93
1104	Photocatalysis from UV/Vis to Near-Infrared Light: Towards Full Solar-Light Spectrum Activity. 2015 , 7, 559-573	108
1103	General Introduction to Upconversion Luminescence Materials. 2015 , 1-20	3
1102	A photoCORM nanocarrier for CO release using NIR light. 2015 , 51, 2072-5	106
1101	Upconversion luminescence enhancement of Yb(3+), Nd(3+) sensitized NaYF4 core-shell nanocrystals on Ag grating films. 2015 , 51, 1502-5	26

1100	Submicron polyacrolein particles in situ embedded with upconversion nanoparticles for bioassay. 2015 , 7, 1709-17	28
1099	Sub-10nm lanthanide doped BaLuF5 nanocrystals: Shape controllable synthesis, tunable multicolor emission and enhanced near-infrared upconversion luminescence. 2015 , 64, 27-32	8
1098	Photon avalanche upconversion in Ho ³⁺ -doped gallium nano-garnets. 2015 , 39, 16-20	9
1097	Upconversion luminescent materials: advances and applications. 2015 , 115, 395-465	1422
1096	Lanthanide-activated Na5Gd9F32 nanocrystals precipitated from a borosilicate glass: Phase-separation-controlled crystallization and optical property. 2015 , 625, 149-157	35
1095	Comparison of photocatalytic activities between Er ³⁺ /Yb ³⁺ and Tm ³⁺ /Yb ³⁺ codoped (CaWO ₄ @(TiO ₂ /CaF ₂)) near-infrared photocatalysts. 2015 , 61, 6-10	14
1094	Nanomaterials for luminescence detection of nitroaromatic explosives. 2015 , 65, 13-21	104
1093	Light upconverting core-shell nanostructures: nanophotonic control for emerging applications. <i>Chemical Society Reviews</i> , 2015 , 44, 1680-713	58.5 417
1092	Aptamer-based fluorescence biosensor for chloramphenicol determination using upconversion nanoparticles. 2015 , 50, 597-604	160
1091	Enhanced upconversion luminescence induced by structural evolution of lanthanum niobate phosphor. 2015 , 41, 3009-3016	11
1090	A misunderstanding about upconversion luminescence of carbon quantum dots. 2015 , 12, 441-446	18
1089	Li ⁺ ions doping core-shell nanostructures: An approach to significantly enhance upconversion luminescence of lanthanide-doped nanocrystals. 2015 , 623, 42-48	54
1088	Microwave-assisted solvothermal synthesis and upconversion luminescence of CaF ₂ :Yb ³⁺ /Er ³⁺ nanocrystals. 2015 , 440, 39-45	23
1087	Ultralow-intensity near-infrared light induces drug delivery by upconverting nanoparticles. 2015 , 51, 431-4	146
1086	Combustion synthesized tetragonal ZrO ₂ : Eu(3+) nanophosphors: structural and photoluminescence studies. 2015 , 135, 241-51	100
1085	Combinatorial approaches for developing upconverting nanomaterials: high-throughput screening, modeling, and applications. <i>Chemical Society Reviews</i> , 2015 , 44, 1653-79	58.5 145
1084	Comparative studies of upconversion luminescence characteristics and cell bioimaging based on one-step synthesized upconversion nanoparticles capped with different functional groups. 2015 , 157, 172-178	31
1083	Stimuli responsive upconversion luminescence nanomaterials and films for various applications. <i>Chemical Society Reviews</i> , 2015 , 44, 1585-607	58.5 277

1082	Lanthanide-doped upconversion nano-bioprobes: electronic structures, optical properties, and biodetection. <i>Chemical Society Reviews</i> , 2015 , 44, 1379-415	58.5	619
1081	Ag-SiO ₂ /Er ³⁺ /D ₂ O nanocomposites: highly effective upconversion luminescence at high power excitation and high temperature. 2014 , 4, 5087		42
1080	Upconverting nanoparticles: a versatile platform for wide-field two-photon microscopy and multi-modal in vivo imaging. <i>Chemical Society Reviews</i> , 2015 , 44, 1302-17	58.5	440
1079	Ultrafine sanding paper: a simple tool for creating small particles. 2015 , 11, 931-5		14
1078	The biosafety of lanthanide upconversion nanomaterials. <i>Chemical Society Reviews</i> , 2015 , 44, 1509-25	58.5	221
1077	Current advances in lanthanide ion (Ln(3+))-based upconversion nanomaterials for drug delivery. <i>Chemical Society Reviews</i> , 2015 , 44, 1416-48	58.5	611
1076	Advances in the theoretical understanding of photon upconversion in rare-earth activated nanophosphors. <i>Chemical Society Reviews</i> , 2015 , 44, 1635-52	58.5	177
1075	Upconverting nanoparticles: assessing the toxicity. <i>Chemical Society Reviews</i> , 2015 , 44, 1561-84	58.5	416
1074	Lab on upconversion nanoparticles: optical properties and applications engineering via designed nanostructure. <i>Chemical Society Reviews</i> , 2015 , 44, 1346-78	58.5	438
1073	Energy transfer in lanthanide upconversion studies for extended optical applications. <i>Chemical Society Reviews</i> , 2015 , 44, 1608-34	58.5	665
1072	Upconversion nanoparticles: a versatile solution to multiscale biological imaging. 2015 , 26, 166-75		148
1071	Controllable synthesis of lanthanide upconversion nanomaterials through impurity doping. 2016 , 211-241		
1070	Visualizing the Knowledge Domain of Nanoparticle Drug Delivery Technologies: A Scientometric Review. 2016 , 6, 11		29
1069	Enhanced Photoluminescence and Planar Waveguide of Rare-Earth Doped Germanium Oxide Glasses with Metallic Nanoparticles. 2016 , 131-144		5
1068	Designed Er(3+)-singly doped NaYF ₄ with double excitation bands for simultaneous deep macroscopic and microscopic upconverting bioimaging. 2016 , 7, 2174-85		3
1067	Effect of EDTA on the formation and upconversion of NaYF ₄ :Yb ³⁺ /Er ³⁺ . 2016 , 6, 1313		12
1066	. 2016 ,		3
1065	Femtosecond Laser-Induced Upconversion Luminescence in Rare-Earth Ions by Nonresonant Multiphoton Absorption. 2016 , 120, 5522-6		10

1064	Nanoparticle-based luminescent probes for intracellular sensing and imaging of pH. 2016 , 8, 378-413	36
1063	Enhanced Upconversion Luminescence of Metal-Capped NaGd _{0.3} Yb _{0.7} F ₄ :Er Submicrometer Particles. 2016 , 12, 2092-8	14
1062	High-Performance Upconversion Nanoprobes for Multimodal MR Imaging of Acute Ischemic Stroke. 2016 , 12, 3591-600	22
1061	Tuning the phase, morphology and size of monodisperse ScF ₃ and NaScF ₄ crystals through lanthanide doping. 2016 , 18, 5940-5951	10
1060	Shielding Upconversion by Surface Coating: A Study of the Emission Enhancement Factor. 2016 , 17, 766-70	24
1059	Carbon Dots: Synthesis, Bioimaging, and Biosafety Assessment. 2016 , 429-486	3
1058	Upconverting Nanoparticle Relays for Resonance Energy Transfer Networks. 2016 , 26, 2866-2874	19
1057	Synthese aufwandskonvertierender 10 nm großer $\text{NaYF}_4\text{:Yb,Er}/\text{NaYF}_4$ -Kern/Schale-Nanokristalle mit 5 nm großen Partikelkernen. 2016 , 128, 1177-1181	14
1056	Bimetallic Au ₂ Cu ₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. 2016 , 55, 3611-4	161
1055	Upconversion luminescence of lanthanide-doped mixed CaMoO ₄ -CaWO ₄ micro-/nano-materials. 2016 , 45, 12094-102	12
1054	The chemistry of ZnWO nanoparticle formation. 2016 , 7, 6394-6406	26
1053	The dual-model up/down-conversion green luminescence of Gd ₆ O ₅ F ₈ :Yb ³⁺ ,Ho ³⁺ ,Li ⁺ and its application for temperature sensing. 2016 , 4, 7148-7155	38
1052	An upconversion nanoplatform for simultaneous photodynamic therapy and Pt chemotherapy to combat cisplatin resistance. 2016 , 45, 13052-60	45
1051	Synthesis of 10 nm $\text{NaYF}_4\text{:Yb,Er}/\text{NaYF}_4$ Core/Shell Upconversion Nanocrystals with 5 nm Particle Cores. 2016 , 55, 1164-7	117
1050	Directional Energy Transfer in Nanocrystals of [Ru(2,2'-bipyridine) ₃][NaCr(oxalate) ₃]. 2016 , 2016, 1972-1979	5
1049	Enhanced Multiphoton Upconversion in Single Nanowires by Waveguiding Excitation. 2016 , 4, 1174-1178	14
1048	Bimetallic Au ₂ Cu ₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. 2016 , 128, 3675-3678	36
1047	Synthesis and characterization of $\text{NaYF}_4\text{:Yb,Er}$ nanoparticles by reverse microemulsion method. 2016 ,	2

1046	Morphology evolution and pure red upconversion mechanism of NaLuF_4 crystals. 2016 , 6, 28051	21
1045	Controllable Fabrication and Optical Properties of Uniform Gadolinium Oxysulfate Hollow Spheres. 2015 , 5, 17934	21
1044	Clear-cut observation of clearance of sustainable upconverting nanoparticles from lymphatic system of small living mice. 2016 , 6, 27407	21
1043	High pressure polymorphs and amorphization of upconversion host material $\text{NaY}(\text{WO}_4)_2$. 2016 , 109, 041907	5
1042	High-resolution fast ion microscopy of single whole biological cells. 2016 , 3, 041102	7
1041	Optical thermometry and heating based on the upconversion fluorescence from $\text{Yb}^{3+}/\text{Er}^{3+}$ co-doped $\text{NaLa}(\text{MoO}_4)_2$ phosphor. 2016 , 31, 3482-3488	3
1040	Hydrothermal Synthesis of Monodispersed $\text{BaGdF}_5:\text{Yb}/\text{Er}$ Nanoparticles for CT and MR Imaging. 2016 , 63, 977-984	5
1039	Controllable Phase Transformation and Mid-infrared Emission from Er^{3+} -Doped Hexagonal-/Cubic- NaYF_4 Nanocrystals. 2016 , 6, 29871	22
1038	Size and Shell Effects on the Photoacoustic and Luminescence Properties of Dual Modal Rare-Earth-Doped Nanoparticles for Infrared Photoacoustic Imaging. 2016 , 2, 809-817	35
1037	A Submunition Dual-drug system based on smart hollow NaYF_4 /apoferritin nanocage for upconversion imaging. 2016 , 6, 33443-33454	5
1036	Enzymatic manipulation of a DNA-mediated ensemble for sensitive fluorescence detection of glucose. 2016 , 6, 33132-33137	2
1035	A Dual-Color Luminescent Localized Drug Delivery System with Ratiometric-Monitored Doxorubicin Release Functionalities. 2016 , 2, 652-661	22
1034	Photon upconversion in $\text{Yb}^{3+}/\text{Tb}^{3+}$ and $\text{Yb}^{3+}/\text{Eu}^{3+}$ activated core/shell nanoparticles with dual-band excitation. 2016 , 4, 4186-4192	44
1033	Core-shell structured $\text{NaGdF}_4:\text{Yb}^{3+}/\text{Er}^{3+}/\text{NaGdF}_4/\text{Ag}$ nanoparticles for plasmon-enhanced upconversion luminescence. 2016 , 6, 36528-36533	11
1032	Controlled synthesis, bioimaging and toxicity assessments in strong red emitting Mn^{2+} doped $\text{NaYF}_4:\text{Yb}^{3+}/\text{Ho}^{3+}$ nanophosphors. 2016 , 6, 53698-53704	28
1031	Superstructures of doped yttrium aluminates for luminescent and advanced forensic investigations. 2016 , 686, 577-587	84
1030	Ultraviolet upconversion enhancement in triply doped $\text{NaYF}_4:\text{Tm}^{3+}, \text{Yb}^{3+}$ particles: The role of Nd^{3+} or Gd^{3+} Co-doping. 2016 , 58, 67-75	20
1029	Poly(glycidyl methacrylate) coated dual mode upconverting nanoparticles for neuronal cell imaging. 2016 , 40, 6692-6696	3

1028	Using low-energy near infrared light and upconverting nanoparticles to trigger photoreactions within supramolecular assemblies. 2016 , 52, 8636-44	19
1027	Far-field optical nanothermometry using individual sub-50 nm upconverting nanoparticles. 2016 , 8, 11611-6	18
1026	UC/DC luminescence of Ho ³⁺ doped pyrochlore structured La ₂ (1-x)Yb _{2x} TiO ₅ phosphor synthesized by sol-gel method. 2016 , 34, 235-239	21
1025	A broad spectrum photon responsive, paramagnetic β -NaGdF ₄ :Yb ³⁺ ,Er ³⁺ mesoporous anatase titania nanocomposite. 2016 , 6, 53504-53518	14
1024	Taming Lanthanide-Centered Upconversion at the Molecular Level. 2016 , 55, 9964-9972	46
1023	High-Contrast Visualization of Upconversion Luminescence in Mice Using Time-Gating Approach. 2016 , 88, 3449-54	68
1022	Highly enhanced upconversion luminescence in lanthanide-doped active-core/luminescent-shell/active-shell nanoarchitectures. 2016 , 4, 2432-2437	47
1021	Inorganic nanoparticles for optical bioimaging. 2016 , 8, 1	139
1020	Effect of Yb ³⁺ concentration on upconversion luminescence and temperature sensing behavior in Yb ³⁺ /Er ³⁺ co-doped YNbO ₄ nanoparticles prepared via molten salt route. 2016 , 297, 26-34	180
1019	Water dispersible LiNdP ₄ O ₁₂ nanocrystals: New multifunctional NIR-IR luminescent materials for bio-applications. 2016 , 176, 144-148	37
1018	Synthesis of IR phosphors based on germanatoborate Gd ₁₄ Ge ₂ B ₆ O ₃₄ . 2016 , 61, 142-148	4
1017	Latent fingerprints light up: facile development of latent fingerprints using NIR-responsive upconversion fluorescent nanocrystals. 2016 , 6, 36264-36268	35
1016	Comparison of upconversion luminescent properties and temperature sensing behaviors of β -NaYF ₄ :Yb ³⁺ /Er ³⁺ nano/microcrystals prepared by various synthetic methods. 2016 , 27, 8254-8270	16
1015	Recent developments in lanthanide-to-quantum dot FRET using time-gated fluorescence detection and photon upconversion. 2016 , 84, 60-71	51
1014	Dual-functional β -NaYF ₄ : Yb ³⁺ , Er ³⁺ nanoparticles for bioimaging and temperature sensing. 2016 , 6, 1056	19
1013	Multifunctional Coordination Polymer Nanoparticles Based on Allantoin: Single Peak Upconversion Emission, Drug Delivery and Cytotoxicity Study. 2016 , 26, 527-535	4
1012	Lanthanide doped BaTiO ₃ SrTiO ₃ solid-solution phosphors: Structure, optical spectroscopy and upconverted temperature sensing behavior. 2016 , 676, 215-223	18
1011	Core@shell upconverting nanoarchitectures for luminescent sensing of temperature. 2016 , 231, 576-583	102

1010	Towards the realization of luminescence from visible emitting trivalent lanthanides (Sm, Eu, Tb, Dy) in polar zinc sulfide nanoparticles: evaluation of in vitro cytotoxicity. 2016 , 6, 43304-43315	15
1009	Near-single-band red upconversion luminescence in Yb/Er: BiOX (X = Cl, Br) nanoplatelets. 2016 , 682, 275-283	29
1008	Enhanced upconversion fluorescence and altered particle size of $\text{NaGdF}_4\text{:Yb}^{3+}/\text{Er}^{3+}$ nanocrystals by codoping with Mo^{3+} ions. 2016 , 6, 3001	9
1007	Effect of surface coating of KYb ₂ F ₇ :Tm(3+) on optical properties and biomedical applications. 2016 , 27, 385601	4
1006	Luminescent Materials for 3D Display Technology. 2016 , 503-523	6
1005	Synthesis, up-conversion luminescence and thermometry of Yb/Er co-doped LaMoO phosphors. 2016 , 45, 16240-16245	22
1004	Foundations of Up-conversion Nanoparticles. 2016 , 215-236	
1003	Synthesis and up-conversion luminescence of Lu ₃ Al ₅ O ₁₂ :Yb ³⁺ ,Er ³⁺ . 2016 , 6, 1099	17
1002	Emission in GdOF:Yb,Er micro-particles for multimodal luminescence and temperature sensing upon 980 nm excitation. 2016 , 18, 26894-26899	17
1001	Upconversion Nanoparticles for Bioimaging. 2016 , 363-390	2
1000	Nanomaterial Development with Liquid-Phase Epitaxy. 2016 , 141-157	
999	Plasmon-Enhanced Sub-Bandgap Photocatalysis via Triplet-Triplet Annihilation Upconversion for Volatile Organic Compound Degradation. 2016 , 50, 11184-11192	45
998	Combination of Ionic Liquid and Sonication: a Fast, Mild and Green Way to Fabricate Europium-Doped Lanthanide Nanophosphates. 2016 , 1, 4861-4867	2
997	Er ³⁺ -Tm ³⁺ -Yb ³⁺ tri-doped CaMoO ₄ upconverting phosphors in optical devices applications. 2016 , 61, 185-194	10
996	Optimization of Bi in Upconversion Nanoparticles Induced Simultaneous Enhancement of Near-Infrared Optical and X-ray Computed Tomography Imaging Capability. 2016 , 8, 27490-27497	59
995	Lanthanides in Luminescent Thermometry. 2016 , 49, 339-427	196
994	10 Upconverting Nanoparticles for Security Applications. 2016 , 291-318	1
993	3 Synthesis of Upconverting Nanomaterials: Designing the Composition and Nanostructure. 2016 , 37-68	2

992	4 Functionalization Aspects of Water Dispersible Upconversion Nanoparticles. 2016 , 69-100	2
991	5 Synergistic Effects in Organic-Coated Upconversion Nanoparticles. 2016 , 101-138	4
990	7 Upconversion Enhancement Using Epitaxial Core-Shell Nanostructures. 2016 , 163-193	
989	8 Active-Core-Active-Shell Upconverting Nanoparticles: Novel Mechanisms, Features, and Perspectives for Biolabeling. 2016 , 195-254	
988	Fabrication of Yb ³⁺ /Er ³⁺ co-doped yttrium-based coordination polymer hierarchical micro/nanostructures: upconversion luminescence properties and thermal conversion to the corresponding oxides. 2016 , 18, 6809-6816	7
987	Liquid Marbles Based on Magnetic Upconversion Nanoparticles as Magnetically and Optically Responsive Miniature Reactors for Photocatalysis and Photodynamic Therapy. 2016 , 55, 10795-9	65
986	Self-organized helical superstructure of photonic cellulose loaded with upconversion nanoparticles showing modulated luminescence. 2016 , 6, 76231-76236	7
985	Fundamental View of Electronic Structures of NaYF_4 , NaGdF_4 , and NaLuF_4 . 2016 , 120, 18858-18870	35
984	Revisiting the classification of NIR-absorbing/emitting nanomaterials for in vivo bioapplications. 2016 , 8, e295-e295	105
983	Synthesis of improved upconversion nanoparticles as ultrasensitive fluorescence probe for mycotoxins. 2016 , 938, 137-45	30
982	Engineered Upconversion Nanoparticles for Resolving Protein Interactions inside Living Cells. 2016 , 55, 11668-72	86
981	Mageschneiderte Aufwandskonvertierungsnanopartikel zur Detektion von Proteinwechselwirkungen in lebenden Zellen. 2016 , 128, 11840-11845	13
980	Liquid Marbles Based on Magnetic Upconversion Nanoparticles as Magnetically and Optically Responsive Miniature Reactors for Photocatalysis and Photodynamic Therapy. 2016 , 128, 10953-10957	18
979	Enhancing Quantum Yield via Local Symmetry Distortion in Lanthanide-Based Upconverting Nanoparticles. 2016 , 3, 1523-1530	57
978	The progress of single-band upconversion nanomaterials. 2016 , 6, 81076-81084	5
977	Laser-induced excited-state crossover and spectral variation of Cr ³⁺ in the high-crystal-field environment of CaGa ₂ O ₄ . 2016 , 41, 3635-8	6
976	Photoluminescent nanoplatforms in biomedical applications. 2016 , 1, 194-225	16
975	Effect of Eu ion incorporation on the emission behavior of Y ₂ O ₃ nanophosphors: A detailed study of structural and optical properties. 2016 , 60, 159-168	43

974	Mechanisms of the blue emission of NaYF ₄ :Tm(3+) nanoparticles excited by an 800 nm continuous wave laser. 2016 , 18, 25905-14	16
973	Aqueous Based Semiconductor Nanocrystals. 2016 , 116, 10623-730	298
972	Dispersions of polyacrolein-based multifunctional microspheres for the creation of bioanalytical and visualizing reagents. 2016 , 58, 385-410	7
971	Synthesis and Interfacial Properties of Optically-Active Photonic Nanocomposites with Single Nanoparticle Dispersion at High Solids Loading. 2016 , 3, 1600334	6
970	Upconversion Phenomena in Nanofluorides. 2016 , 35-63	4
969	In situ synthesis, enhanced luminescence and application in dye sensitized solar cells of YO/YOS:Eu nanocomposites by reduction of YO:Eu. 2016 , 6, 37133	24
968	A Mathematically-Tuning Model of Multicolor and White Light Upconversion in Lanthanide-Doped ZrO ₂ Macroporous Matrix. 2016 , 1, 3136-3143	3
967	Promote the threshold of Tm ³⁺ concentration using an inert-core/active-shell structure. 2016 , 4, 9183-9186	9
966	Up/down-converted green luminescence of Er ³⁺ /Yb ³⁺ doped paramagnetic gadolinium molybdate: a highly sensitive thermographic phosphor for multifunctional applications. 2016 , 6, 89642-89654	31
965	Controllable synthesis of Sc ₂ Mo ₃ O ₁₂ microcrystals with exposed {001} facets and their remarkable tunable luminescence properties by doping lanthanides. 2016 , 18, 8044-8058	19
964	Plasmonic Nanowire-Enhanced Upconversion Luminescence for Anticounterfeit Devices. 2016 , 26, 7836-7846	56
963	Design of infrared-emitting rare earth doped nanoparticles and nanostructured composites. 2016 , 4, 8349-8372	45
962	Versatile, Fast, and Easy One-Step Method for the Synthesis of Hydrophilic Lanthanide-Doped Nanoparticles. 2016 , 1, 4068-4074	5
961	The chemistry of nucleation. 2016 , 18, 8332-8353	65
960	Intense visible upconversion emission in transparent (Ho ³⁺ , Er ³⁺)-doped SiO ₂ ceramics under 980 nm laser excitation. 2016 , 36, 4215-4224	21
959	Targeted Stealth Polymer Capsules Encapsulating Ln-Doped LaVO Nanoparticles for Bioimaging Applications. 2016 , 2, 1330-1340	20
958	Electric dipole coupling in optical cavities and its implications for energy transfer, up-conversion, and pooling. 2016 , 93,	7
957	Luminescent Rare-earth-based Nanoparticles: A Summarized Overview of their Synthesis, Functionalization, and Applications. 2016 , 374, 48	38

956	Phonon-Assisted Population Inversion in Lanthanide-Doped Upconversion Ba LaF Nanocrystals in Glass-Ceramics. 2016 , 28, 8045-8050	86
955	Phase structure control and optical spectroscopy of rare-earth activated GdF ₃ nanocrystal embedded glass ceramics via alkaline-earth/alkali-metal doping. 2016 , 6, 71176-71187	14
954	Luminescence thermometry and imaging in the second biological window at high penetration depth with Nd:KGd(WO ₄) ₂ nanoparticles. 2016 , 4, 7397-7405	48
953	Labeling and long-term tracking of bone marrow mesenchymal stem cells in vitro using NaYF ₄ :Yb(3+),Er(3+) upconversion nanoparticles. 2016 , 42, 199-208	36
952	Enhanced upconversion luminescence and tuned red-to-green emission ratio of LiGdF ₄ nanocrystals via Ca ²⁺ doping. 2016 , 6, 75664-75668	8
951	Controlling red upconversion luminescence in Gd ₂ O ₃ :Yb ³⁺ +Er ³⁺ nanoparticles by changing the different atmosphere. 2016 , 6, 101707-101713	2
950	In-situ Electric Field-Induced Modulation of Photoluminescence in Pr-doped Ba _{0.85} Ca _{0.15} Ti _{0.90} Zr _{0.10} O ₃ Lead-Free Ceramics. 2016 , 6, 28677	40
949	Upconversion Luminescence Behavior of Single Nanoparticles. 2016 , 311-331	
948	Optical Torques on Upconverting Particles for Intracellular Microrheometry. 2016 , 16, 8005-8014	54
947	The nanomaterial toolkit for neuroengineering. 2016 , 3, 25	15
946	Material and Ingenious Synthesis Strategy for Short-Wavelength Infrared Light-Emitting Device. 2016 , 55, 11258-11263	3
945	Alleviating Luminescence Concentration Quenching in Upconversion Nanoparticles through Organic Dye Sensitization. 2016 , 138, 15130-15133	111
944	Demonstration of Temperature Dependent Energy Migration in Dual-Mode YVO: Ho/Yb Nanocrystals for Low Temperature Thermometry. 2016 , 6, 36342	36
943	NIR-Mediated Nanohybrids of Upconversion Nanophosphors and Fluorescent Conjugated Polymers for High-Efficiency Antibacterial Performance Based on Fluorescence Resonance Energy Transfer. 2016 , 5, 2967-2971	35
942	Lanthanide-Doped Upconversion Nanoprobes. 2016 , 237-287	
941	Er ³⁺ /Yb ³⁺ co-doped lead germanate glasses for up-conversion luminescence temperature sensors. 2016 , 252, 54-58	36
940	Room temperature molecular up conversion in solution. 2016 , 7, 11978	65
939	Enhanced up-conversion luminescence from NaYF ₄ :Yb,Er nanocrystals by Gd ³⁺ ions induced phase transformation and plasmonic Au nanosphere arrays. 2016 , 6, 102869-102874	17

938	Vibrational spectra of NdF ₃ crystal. 2016 , 501, 15-19	4
937	Fabrication of Superhydrophobic and Luminescent Rare Earth/Polymer complex Films. 2016 , 6, 24682	14
936	Lanthanide chelate-encapsulated polystyrene nanoparticles for rapid and quantitative immunochromatographic assay of prolactin. 2016 , 6, 103463-103470	18
935	Lanthanide Ion Doped Upconverting Nanoparticles: Synthesis, Structure and Properties. 2016 , 12, 3888-907	72
934	Near-Infrared-Sensitive Materials Based on Upconverting Nanoparticles. 2016 , 28, 1208-26	286
933	Europium-activated rare earth fluoride (LnF ₃ :Eu ³⁺ +LnF ₃ :La, Gd) nanocrystals prepared by using ionic liquid/NH ₄ F as a fluorine source via hydrothermal synthesis. 2016 , 31, 1138-1145	10
932	Sequence-specific detection of cytosine methylation in DNA via the FRET mechanism between upconversion nanoparticles and gold nanorods. 2016 , 52, 8377-80	32
931	Bio-distribution and in vivo/in vitro toxicity profile of PEGylated polymer capsules encapsulating LaVO ₄ :Tb ³⁺ nanoparticles for bioimaging applications. 2016 , 6, 55125-55134	11
930	Decoration of upconversion nanoparticles@mSiO ₂ core-shell nanostructures with CdS nanocrystals for excellent infrared light triggered photocatalysis. 2016 , 6, 54241-54248	14
929	A dual-fluorescent nano-carrier for delivering photoactive ruthenium polypyridyl complexes. 2016 , 4, 4746-4753	20
928	Future prospects of luminescent nanomaterial based security inks: from synthesis to anti-counterfeiting applications. 2016 , 8, 14297-340	261
927	NaYF ₄ :Yb,Tm: upconversion properties by controlling the transition probabilities at the same energy level. 2016 , 3, 1082-1090	8
926	A dual-functional upconversion core@shell nanostructure for white-light-emission and temperature sensing. 2016 , 4, 6516-6524	71
925	Polymer functionalization by luminescent supramolecular gels. 2016 , 48, 843-853	14
924	Tunable photoluminescence properties of Pr ³⁺ /Er ³⁺ -doped 0.93Bi _{0.5} Na _{0.5} TiO ₃ 0.07BaTiO ₃ low-temperature sintered multifunctional ceramics. 2016 , 42, 9899-9905	10
923	Spectral tuning via multi-phonon-assisted stokes and anti-stokes excitations in LaF ₃ : Tm ³⁺ nanoparticles. 2016 , 678, 212-218	8
922	Facile synthesis and upconversion luminescence of NaYF ₄ :Yb, Tm nanocrystals with highly tunable and uniform NaYF ₄ shells. 2016 , 684, 211-216	12
921	Photoactivation of Diiodido-Pt(IV) Complexes Coupled to Upconverting Nanoparticles. 2016 , 13, 2346-62	27

920	Facile hydrothermal synthesis of Tb ₂ (MoO ₄) ₃ :Eu ³⁺ phosphors: controllable microstructures, tunable emission colors, and the energy transfer mechanism. 2016 , 40, 7350-7358	8
919	Luminescent nano-thermometer based on up-conversion luminescence behavior of transparent Ba ₂ ErF ₇ nano-glass ceramics. 2016 , 122, 1	2
918	Preparation of core/shell NaYF ₄ :Yb,Tm@dendrons nanoparticles with enhanced upconversion luminescence for in vivo imaging. 2016 , 12, 2107-2113	10
917	Recent advances in the development of nanomaterials for DC-based immunotherapy. 2016 , 61, 514-523	8
916	Fluorescent nanoprobe for sensing and imaging of metal ions: recent advances and future perspectives. 2016 , 11, 309-329	173
915	Au/NaYF ₄ :Yb,Er Binary Superparticles: Synthesis and Optical Properties. 2016 , 56, 242-248	9
914	Chainlike assembly of oleic acid-capped NaYF ₄ :Yb,Er nanoparticles and their fixing by silica encapsulation. 2016 , 6, 62019-62023	1
913	A job for quantum dots: use of a smartphone and 3D-printed accessory for all-in-one excitation and imaging of photoluminescence. 2016 , 408, 2913-25	38
912	Luminescent Lanthanide Sensors and Lanthanide Doped Upconversion Nanoparticles: Current Status and Future Expectations. 2016 , 269-299	2
911	Magnetic field enhanced upconversion luminescence and magnetic-optical hysteresis behaviors in NaYF ₄ :Yb, Ho nanoparticles. 2016 , 6, 7391-7395	14
910	Engineering Upconversion Nanoparticles for Multimodal Biomedical Imaging-Guided Therapeutic Applications. 2016 , 165-195	1
909	Controlled synthesis and morphology dependent luminescence of Lu ₂ O ₂ S:Eu ³⁺ phosphors. 2016 , 6, 7846-7853	16
908	Nanostructured materials functionalized with metal complexes: In search of alternatives for administering anticancer metallodrugs. 2016 , 312, 67-98	146
907	Ni, Co and NiCo codoping induced modification in shape, optical band gap and enhanced photocatalytic activity of CeO ₂ nanostructures for photodegradation of methylene blue dye under visible light irradiation. 2016 , 6, 8651-8660	34
906	Portable Upconversion Nanoparticles-Based Paper Device for Field Testing of Drug Abuse. 2016 , 88, 1530-4	86
905	Color-tunable and single-band red upconversion luminescence from rare-earth doped Vernier phase ytterbium oxyfluoride nanoparticles. 2016 , 4, 684-690	36
904	New Strategies in Cancer Nanomedicine. 2016 , 56, 41-57	84
903	Optimization of upconversion luminescence of Nd(3+)-sensitized BaGdF ₅ -based nanostructures and their application in dual-modality imaging and drug delivery. 2016 , 45, 1708-16	35

902	Fabrication of Gd/Eu-codoped SmPO ₄ nanorods for dual-modal magnetic resonance and bio-optical imaging. 2016 , 466, 1-11	9
901	Multicolor upconversion luminescence of GdVO ₄ :Ln ³⁺ /Yb ³⁺ (Ln ³⁺ = Ho ³⁺ , Er ³⁺ , Tm ³⁺ , Ho ³⁺ /Er ³⁺ /Tm ³⁺) nanorods. 2016 , 126, 1-7	54
900	Energy level schemes of f n electronic configurations for the di-, tri-, and tetravalent lanthanides and actinides in a free state. 2016 , 170, 369-374	32
899	Pechini-type sol-gel synthesis and multicolor-tunable emission properties of GdY(MoO ₄) ₃ :RE ³⁺ (RE=Eu, Dy, Sm, Tb) phosphors. 2016 , 51, 162-170	45
898	PEG-modified upconversion nanoparticles for in vivo optical imaging of tumors. 2016 , 6, 30089-30097	35
897	Controlling the excitation of upconverting luminescence for biomedical theranostics: neodymium sensitizing. 2016 , 6, 1011	21
896	Hybrid lanthanide nanoparticles as a new class of binary contrast agents for in vivo T ₁ /T ₂ dual-weighted MRI and synergistic tumor diagnosis. 2016 , 4, 2715-2722	22
895	Recent advances in luminescence properties of lanthanide-doped up-conversion nanocrystals and applications for bio-imaging, drug delivery, and optosensing. 2016 , 51, 678-705	36
894	Lanthanide-Doped Upconversion Nanoparticles: Emerging Intelligent Light-Activated Drug Delivery Systems. 2016 , 3, 1500437	136
893	Dual-functional NaYb(Mn)F ₄ :Er ³⁺ @NaLuF ₄ nanocrystals with highly enhanced red upconversion luminescence. 2016 , 6, 33493-33500	5
892	Differently sized magnetic/upconversion luminescent NaGdF ₄ :Yb,Er nanocrystals: flow synthesis and solvent effects. 2016 , 52, 5872-5	26
891	Nd sensitized dumbbell-like upconversion nanoparticles for photodynamic therapy application. 2016 , 4, 2776-2784	46
890	Water soluble luminescent cyclometalated platinum(II) complex as a suitable probe for bio-imaging applications. 2016 , 67, 107-111	19
889	From curiosity to applications. A personal perspective on inorganic photochemistry. 2016 , 7, 2964-2986	30
888	Facile synthesis of 5 nm NaYF ₄ :Yb/Er nanoparticles for targeted upconversion imaging of cancer cells. 2016 , 152, 504-12	18
887	Homogeneous Immunosensor Based on Luminescence Resonance Energy Transfer for Glycated Hemoglobin Detection Using Upconversion Nanoparticles. 2016 , 88, 2742-6	52
886	Upconversion luminescence of Ho ³⁺ /Yb ³⁺ co-doped CaNb ₂ O ₆ thin films. 2016 , 644, 152-156	6
885	Upconversion-luminescent/magnetic dual-functional sub-20 nm core-shell SrF ₂ :Yb,Tm@CaF ₂ :Gd heteronanoparticles. 2016 , 45, 5800-7	15

884	Dual-mode modulation of luminescence chromaticity in $\text{AgLa}(\text{MoO}_4)_2\text{:Yb}^{3+}, \text{Ho}^{3+}$ up-conversion phosphors. 2016 , 4, 1964-1971	45
883	New $\text{Sr}_{1-x}\text{R}_x(\text{NH}_4)_2\text{F}_2 \cdot x\text{H}_2\text{O}$ ($\text{R} = \text{Yb, Er}$) solid solution as precursor for high efficiency up-conversion luminophor and optical ceramics on the base of strontium fluoride. 2016 , 172, 150-157	22
882	Rare earth ion doped phosphors for dye-sensitized solar cells applications. 2016 , 6, 17546-17559	39
881	Upconversion nanoparticles with a strong acid-resistant capping. 2016 , 8, 7588-94	14
880	Balancing intermediate state decay rates for efficient Pr^{3+} visible-to-UVC upconversion: the case of $\text{Y}_2\text{Si}_2\text{O}_7\text{:Pr}^{3+}$. 2016 , 6, 22791-22796	18
879	An upconversion nanoparticle/ $\text{Ru}(\text{II})$ polypyridyl complex assembly for NIR-activated release of a DNA covalent-binding agent. 2016 , 6, 23804-23808	17
878	Lanthanide upconversion luminescence at the nanoscale: fundamentals and optical properties. 2016 , 8, 13099-130	217
877	Effect of $\text{Yb}(3+)$ on the Crystal Structural Modification and Photoluminescence Properties of $\text{GGAG:Ce}(3+)$. 2016 , 55, 3040-6	22
876	Bioapplications and biotechnologies of upconversion nanoparticle-based nanosensors. 2016 , 141, 3601-20	55
875	Roles of fluorine and annealing on optical and structural properties of Nd:YF_3 phosphor. 2016 , 175, 237-242	4
874	Green preparation of novel heptafluoro-zirconate/hafnate nanocrystals at ambient temperature. 2016 , 40, 2051-2056	1
873	Beyond the Pipeline: Assessing the Efficiency Limits of Advanced Technologies for Solar Water Disinfection. 2016 , 3, 73-80	46
872	Upconversion and tribological properties of $\text{NaYF}_4\text{:Yb,Er}$ film synthesized on silicon substrate. 2016 , 371, 391-398	10
871	Synergistic eradication of antibiotic-resistant bacteria based biofilms in vivo using a NIR-sensitive nanoplatfrom. 2016 , 52, 5312-5	38
870	Dual-Color Emissive Upconversion Nanocapsules for Differential Cancer Bioimaging In Vivo. 2016 , 10, 1512-21	130
869	Color-tunable and upconversion luminescence of $\text{Gd}_2\text{O}_2\text{S:Er,Tb}$ phosphor. 2016 , 169, 113-119	14
868	$\text{NaYF}_4\text{:Yb}^{3+}, \text{Tm}^{3+}$ inverse opal photonic crystals and $\text{NaYF}_4\text{:Yb}^{3+}, \text{Tm}^{3+}/\text{TiO}_2$ composites: synthesis, highly improved upconversion properties and NIR photoelectric response. 2016 , 4, 659-662	32
867	Color-tunable up-conversion emission from $\text{Yb}^{3+}/\text{Er}^{3+}/\text{Tm}^{3+}/\text{Ho}^{3+}$ codoped $\text{KY}(\text{MoO}_4)_2$ microcrystals based on energy transfer. 2016 , 42, 4642-4647	20

866	Sensitive Water Probing through Nonlinear Photon Upconversion of Lanthanide-Doped Nanoparticles. 2016 , 8, 847-53	67
865	Reviews in Fluorescence 2015. 2016 ,	1
864	Dye-Sensitized Core/Active Shell Upconversion Nanoparticles for Optogenetics and Bioimaging Applications. 2016 , 10, 1060-6	319
863	Core/Shell BaYbF ₅ :Tm@BaGdF ₅ :Yb,Tm nanocrystals for in vivo trimodal UCL/CT/MR imaging. 2016 , 6, 14283-14289	16
862	A chemical address for the Morse Code. 2016 , 169, 348-352	
861	Influence of Er ³⁺ ion concentration on spectroscopic properties and luminescence behavior in Er ³⁺ doped Strontium telluroborate glasses. 2016 , 171, 19-26	41
860	Controlled size and morphology, and phase transition of YF ₃ :Yb ³⁺ ,Er ³⁺ and YOF:Yb ³⁺ ,Er ³⁺ nanocrystals for fine color tuning. 2016 , 4, 331-339	33
859	X-ray excited photoluminescence near the giant resonance in solid-solution Gd(1-x)Tb(x)OCl nanocrystals and their retention upon solvothermal topotactic transformation to Gd(1-x)Tb(x)F ₃ . 2016 , 8, 979-86	13
858	Ce ³⁺ dopants-induced spectral conversion from green to red in the Yb/Ho: NaLuF ₄ self-crystallized nano-glass-ceramics. 2016 , 654, 151-156	34
857	Fluorescent nanoparticles based on AIE fluorogens for bioimaging. 2016 , 8, 2471-87	199
856	Upconversion fluorescence resonance energy transfer—novel approach for sensitive detection of fluoroquinolones in water samples. 2016 , 124, 181-187	24
855	Photoluminescence properties of rare-earth-doped (Er ³⁺ ,Yb ³⁺) Y ₂ O ₃ nanophosphors by a combustion synthesis method. 2016 , 31, 728-37	3
854	Increased upconversion performance for thin film solar cells: a trimolecular composition. 2016 , 7, 559-568	67
853	Upconversion luminescence tracking of gene delivery via multifunctional nanocapsules. 2016 , 150, 118-24	21
852	Metal recovery based magnetite near-infrared photocatalyst with broadband spectrum utilization property. 2016 , 181, 456-464	21
851	Potassium sodium tartrate-assisted hydrothermal synthesis of BaLuF ₅ :Yb ³⁺ /Er ³⁺ nanocrystals. 2016 , 24, 164-169	8
850	Energy Transfer with Semiconductor Quantum Dot Bioconjugates: A Versatile Platform for Biosensing, Energy Harvesting, and Other Developing Applications. 2017 , 117, 536-711	439
849	Fuel-oxidizer ratio tuned luminescence properties of combustion synthesized Europium doped cerium oxide nanoparticles and its effect on antioxidant properties. 2017 , 43, 5457-5466	20

848	Bright Green Frequency Upconversion in Catechin Based Yb ³⁺ /Er ³⁺ Codoped LaVO ₄ Nanorods upon 980 nm Excitation. 2017 , 121, 4505-4516	23
847	Mechanisms of Li Ions in the Emission Enhancement of KMg(PO) ₃ :Eu for White Light Emitting Diodes. 2017 , 56, 1144-1151	51
846	Investigations on multi-photon emissions of Nd ³⁺ -sensitized core/shell nanoparticles. 2017 , 35, 1-6	8
845	Facile synthesis of multicolor tunable ultrasmall LiYF ₄ :Yb,Tm,Er/LiGdF ₄ core/shell upconversion nanophosphors with 10 nm size. 2017 , 139, 831-838	22
844	Investigating the extrinsic size effect of palladium and gold spherical nanoparticles. 2017 , 64, 413-420	22
843	Upconversion Nanocrystals Mediated Lateral-Flow Nanoplatfrom for in Vitro Detection. 2017 , 9, 3497-3504	60
842	Laser-induced growth of YVO ₄ :Eu ³⁺ nanoparticles from sequential flowing aqueous suspension. 2017 , 7, 9002-9008	6
841	Novel and easy access to highly luminescent Eu and Tb doped ultra-small CaF ₂ , SrF ₂ and BaF ₂ nanoparticles - structure and luminescence. 2017 , 46, 2925-2936	31
840	A modified energy transfer model for determination of upconversion emission of NaYF ₄ :Yb,Er: Role of self-quenching effect. 2017 , 185, 292-297	10
839	Synthesis of Ultrasmall Hexagonal NaGdF ₄ :Yb ³⁺ /Er ³⁺ @NaGdF ₄ :Yb ³⁺ @NaGdF ₄ :Nd ³⁺ Active-Core/Active-Shell/Active-Shell Nanoparticles with Enhanced Upconversion Luminescence. 2017 , 6, R41-R46	3
838	Modulated Visible Light Upconversion for Luminescence Patterns in Liquid Crystal Polymer Networks Loaded with Upconverting Nanoparticles. 2017 , 5, 1600956	21
837	Luminescence Spectroscopy of Nanophosphors. 2017 , 15-42	1
836	Structural properties, Judd-Ofelt calculations, and near infrared to visible photon up-conversion in Er ³⁺ /Yb ³⁺ doped BaTiO ₃ phosphors under excitation at 1500 nm. 2017 , 7, 10529-10538	20
835	Nanostructures for NIR light-controlled therapies. 2017 , 9, 3698-3718	72
834	Influence of Cr ³⁺ on upconversion luminescent and magnetic properties of NaLu _{0.86-x} Gd _{0.12} F ₄ :Cr ³⁺ /Er ³⁺ (0.02-0.24) material. 2017 , 187, 40-45	19
833	Experimental observation of spatially resolved photo-luminescence intensity distribution in dual mode upconverting nanorod bundles. 2017 , 7, 42515	2
832	Magneto-Photoluminescence Based on Two-Photon Excitation in Lanthanide-Doped Up-Conversion Crystal Particles. 2017 , 13, 1603363	2
831	Near-infrared-emitting NaYF ₄ :Yb,Tm/Mn upconverting nanoparticle/gold nanorod electrochemiluminescence resonance energy transfer system for sensitive prostate-specific antigen detection. 2017 , 409, 2675-2683	14

830	Structural and optical properties of Tb ³⁺ doped Y ₂ O ₃ nanoparticles. 2017 , 28, 9066-9071	2
829	Enhance the Er Upconversion Luminescence by Constructing NaGdF:Er@NaGdF:Er Active-Core/Active-Shell Nanocrystals. 2017 , 12, 163	19
828	Nanoparticle Bioconjugates: Materials that Benefit from Chemoselective and Bioorthogonal Ligation Chemistries. 2017 , 543-629	2
827	Temperature sensing of adipose tissue heating with the luminescent upconversion nanoparticles as nanothermometer: in vitro study. 2017 ,	3
826	808-nm-Light-Excited Lanthanide-Doped Nanoparticles: Rational Design, Luminescence Control and Theranostic Applications. 2017 , 29, 1605434	189
825	Magnetic tuning of upconversion luminescence in Au/NaGdF:Yb/Er nanocomposite. 2017 , 28, 155702	9
824	Fluorescent Nanomaterials for the Development of Latent Fingerprints in Forensic Sciences. 2017 , 27, 1606243	98
823	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. 2017 , 117, 4488-4527	494
822	Influence of Doping and Excitation Powers on Optical Thermometry in Yb-Er doped CaWO ₄ . 2017 , 7, 43383	94
821	Excitation power dependent population pathways and absolute quantum yields of upconversion nanoparticles in different solvents. 2017 , 9, 4283-4294	90
820	Optical, luminescent and optical temperature sensing properties of (K _{0.5} Na _{0.5})NbO ₃ -ErBiO ₃ transparent ceramics. 2017 , 706, 156-163	36
819	Lanthanide-doped Sr ₂ ScF ₇ nanocrystals: controllable hydrothermal synthesis, the growth mechanism and tunable up/down conversion luminescence properties. 2017 , 5, 3264-3275	23
818	A Broadly Applicable Assay for Rapidly and Accurately Quantifying DNA Surface Coverage on Diverse Particles. 2017 , 28, 933-943	4
817	M Doping Induced Simultaneous Phase/Size Control and Remarkable Enhanced Upconversion Luminescence of NaLnF Probes for Optical-Guided Tiny Tumor Diagnosis. 2017 , 6, 1601231	25
816	Insights into Li ⁺ -induced morphology evolution and upconversion luminescence enhancement of KSc ₂ F ₇ :Yb/Er nanocrystals. 2017 , 5, 3503-3508	33
815	Luminescent Nanoparticles for Chemical Sensing and Imaging. 2017 , 71-109	6
814	Unclonable Security Codes Designed from Multicolor Luminescent Lanthanide-Doped YO Nanorods for Anticounterfeiting. 2017 , 9, 14301-14308	76
813	Flexible transparent displays based on core/shell upconversion nanophosphor-incorporated polymer waveguides. 2017 , 7, 45659	20

812	Intense upconversion luminescence and energy-transfer mechanism of Ho ³⁺ /Yb ³⁺ co-doped SrLu ₂ O ₄ phosphor. 2017 , 100, 3530-3539	22
811	Effects of down-conversion CeO ₂ :Eu ³⁺ nanophosphors in perovskite solar cells. 2017 , 28, 11346-11357	26
810	A label-free detection of diethylstilbestrol based on molecularly imprinted polymer-coated upconversion nanoparticles obtained by surface grafting. 2017 , 7, 22215-22221	14
809	Preparation of gold nanoparticle coated NaYF ₄ :Yb,Er,Gd nanoparticles and their application for AFP detection in the red region. 2017 , 9, 2977-2982	7
808	Optical temperature sensing behavior of Dy ³⁺ -doped transparent alkaline earth fluoride glass ceramics. 2017 , 123, 1	10
807	Properties of sputtered ZnS and ZnS:A (A = Er, Yb) films grown at low substrate temperatures. 2017 , 35, 031505	3
806	Water detection through Nd ³⁺ -sensitized photon upconversion in core-shell nanoarchitecture. 2017 , 5, 5434-5443	33
805	Manipulating the emission intensity and lifetime of NaYF ₄ :Yb,Er simultaneously by embedding it into CdS photonic crystals. 2017 , 9, 7666-7673	23
804	Core-shell metal fluoride nanoparticles via fluorolytic sol-gel synthesis: a fast and efficient construction kit. 2017 , 5, 5444-5450	14
803	Gd-based oxyfluoride glass ceramics: Phase transformation, optical spectroscopy and upconverting temperature sensing. 2017 , 37, 4083-4094	31
802	Spectral management and energy-transfer mechanism of Eu ³⁺ -doped NaGdF ₄ :Yb ³⁺ ,Er ³⁺ microcrystals. 2017 , 100, 4602-4610	5
801	A near-infrared luminescent Mn-doped NaYF ₄ :Yb,Tm/Fe upconversion nanoparticles redox reaction system for the detection of GSH/Cys/AA. 2017 , 172, 95-101	28
800	Upconversion processes: versatile biological applications and biosafety. 2017 , 9, 12248-12282	57
799	Near-infrared photochemistry at interfaces based on upconverting nanoparticles. 2017 , 19, 23585-23596	29
798	Real-time assay of inorganic pyrophosphatase activity in the red region based on Li ⁺ -doped NaYF ₄ :Yb,Er upconversion luminescent nanoparticles. 2017 , 9, 3296-3301	4
797	Enhancement of Luminescence Intensity in Red Emitting NaYF ₄ :Yb/Ho/Mn Upconversion Nanophosphors by Variation of Reaction Parameters. 2017 , 121, 11783-11793	44
796	Household Fluorescent Lateral Flow Strip Platform for Sensitive and Quantitative Prognosis of Heart Failure Using Dual-Color Upconversion Nanoparticles. 2017 , 11, 6261-6270	197
795	Enhanced DNA sensitized Tb luminescence in organic solvents for more sensitive detection. 2017 , 977, 44-51	7

794	A highly sensitive biosensing platform based on upconversion nanoparticles and graphene quantum dots for the detection of Ag. 2017 , 5, 024010	16
793	Structure, morphology and optical characterization of Dy 3+ -doped BaYF 5 nanocrystals for warm white light emitting devices. 2017 , 70, 16-24	24
792	Remarkable fluorescence enhancement of upconversion composite film and its application on mercury sensing. 2017 , 35, 460-467	10
791	Wavelength-focusing organic molecular materials with diazoacetate or fumarate as a monofluorophore. 2017 , 41, 3719-3722	3
790	Meso-Functionalization of Silk Fibroin by Upconversion Fluorescence and Near Infrared In Vivo Biosensing. 2017 , 27, 1700628	39
789	Upconversion Modulation through Pulsed Laser Excitation for Anti-counterfeiting. 2017 , 7, 1320	64
788	Preparation, upconversion luminescence, and solid-state NMR studies of water-soluble hexagonal NaScF 4 :Yb/Er microcrystals. 2017 , 714, 160-167	8
787	A 980 nm laser-activated upconverted persistent probe for NIR-to-NIR rechargeable in vivo bioimaging. 2017 , 9, 7276-7283	51
786	Material chemistry of graphene oxide-based nanocomposites for theranostic nanomedicine. 2017 , 5, 6451-6470	32
785	Early tumor detection afforded by in vivo imaging of near-infrared II fluorescence. 2017 , 134, 202-215	74
784	Crystal structure characterization and up-conversion luminescent properties of BaIn2O4 phosphor. 2017 , 192, 218-223	2
783	Two-dimensional black phosphorus nanosheets for theranostic nanomedicine. 2017 , 4, 800-816	127
782	Preparation of Dumbbell-like Er/ZnO Microrods with Efficient Energy Upconversion for the Catalytic Degradation of Tartaric Acid in Water. 2017 , 60, 1359-1369	5
781	Rapid and specific sensing of tetracycline in food using a novel upconversion aptasensor. 2017 , 81, 156-163	66
780	Yb3+ concentration on emission color, thermal sensing and optical heater behavior of Er3+ doped Y6O5F8 phosphor. 2017 , 43, 10948-10954	14
779	Enhanced up-conversion and 2.7 μm luminescence of Er3+/Yb3+ co-doped yttrium lanthanum oxide transparent ceramics pumped at 980 nm. 2017 , 190, 194-199	4
778	Synthesis, characterization, and utility of trifluoroacetic acid lanthanide precursors for production of varied phase fluorinated lanthanide nanomaterials. 2017 , 131, 59-73	1
777	Employing shells to eliminate concentration quenching in photonic upconversion nanostructure. 2017 , 9, 7941-7946	97

776	Microwave-assisted synthesis of NaYF ₄ :Yb ³⁺ /Tm ³⁺ upconversion particles with tailored morphology and phase for the design of UV/NIR-active NaYF ₄ :Yb ³⁺ /Tm ³⁺ @TiO ₂ core@shell photocatalysts. 2017 , 19, 3465-3475	26
775	Rational composition control of mixed-lanthanide metal-organic frameworks by an interfacial reaction with metal ion-doped polymer substrates. 2017 , 253, 43-46	4
774	RGD/CTX-conjugated multifunctional Eu-GdO NRs for targeting detection and inhibition of early tumor. 2017 , 5, 4863-4875	3
773	Superparamagnetic core-shell nanocomplexes doped with Yb ³⁺ : Er ³⁺ /Ho ³⁺ rare-earths for upconversion fluorescence. 2017 , 130, 263-274	9
772	Near-infrared photo-stimulated red luminescence in Eu ²⁺ /Ln ³⁺ (Ln = La-Lu):SrS persistent phosphors. 2017 , 720, 239-244	6
771	Strategies for Switching with Visible Light. 2017 , 93-114	
770	3.25 Fluorescent Nanoparticles for Biological Imaging. 2017 , 535-548	1
769	Amphiphilic complexes of Ho(iii), Dy(iii), Tb(iii) and Eu(iii) for optical and high field magnetic resonance imaging. 2018 , 47, 10646-10653	6
768	Selenium-containing BODIPY dyes as photosensitizers for triplet-triplet annihilation upconversion. 2018 , 6, 6208-6215	15
767	Synthesis and Luminescence Characteristics of LaF ₃ :Yb:Er Powders Produced by Coprecipitation from Aqueous Solutions. 2018 , 63, 293-302	5
766	Nearly Pure Red Color Upconversion Luminescence of Ln-Doped ScO with Unexpected RE-MOFs Molecular Alloys as Precursor. 2018 , 57, 10511-10517	6
765	The role of particle size on the cytotoxicity of nanodiamond. 2018 , 14, 1744-1745	
764	Enhanced upconversion luminescence in LuPO ₄ :Ln ³⁺ phosphors via optically inert ions doping. 2018 , 42, 15215-15220	4
763	Optical thermometry in low temperature through manipulating the energy transfer from WO ₆ to Ho ³⁺ in Y ₂ WO ₆ :Ho ³⁺ phosphors. 2018 , 84, 778-785	15
762	Color Change Upconversion Mechanism of Y ₆ O ₅ F ₈ : Er ³⁺ /Yb ³⁺ Microtubes by Using Time-Resolved Spectra. 2018 , 60, 1381-1386	1
761	Intense infrared, visible up and down emissions in Er ³⁺ /Yb ³⁺ co-doped SrAl ₁₂ O ₁₉ obtained by urea assisted combustion route. 2018 , 29, 16516-16522	2
760	Rational Surface Design of Upconversion Nanoparticles with Polyethylenimine Coating for Biomedical Applications: Better Safe than Brighter?. 2018 , 4, 3143-3153	21
759	Synthesis and Characterization of Monodisperse Core-shell Lanthanide Upconversion Nanoparticles NaYF ₄ : Yb,Tm/SiO ₂ . 2018 , 367, 012043	

758	Selective synthesis, polymorphism, reversible phase transition and structure-dependent optical functionalities of gadolinium oxyfluorides. 2018 , 6, 11007-11014	3
757	Structural, electronic and vibrational properties of LaF according to density functional theory and Raman spectroscopy. 2018 , 30, 255901	4
756	Ferroelectric and Piezoelectric Effects on the Optical Process in Advanced Materials and Devices. 2018 , 30, e1707007	107
755	Synthesis, Luminescence Property and Thermal Quenching Investigation of Niobate Phosphors Ba ₃ ZrNb ₄ O ₁₅ :Eu ³⁺ under Multiple Excitations. 2018 , 7, R94-R98	3
754	Introduction to the electronic structure, luminescence, and magnetism of lanthanides. 2018 , 1-58	6
753	Improvement in the photovoltaic performance of a dye-sensitized solar cell by the addition of CeO ₂ :Gd nanoparticles in the photoanode. 2018 , 65, 418-422	7
752	Nanocomposites of carbon nanotubes and photon upconversion nanoparticles for enhanced optical limiting performance. 2018 , 6, 7311-7316	6
751	Selective Polarization Modification of Upconversion Luminescence of NaYF ₄ :Yb ³⁺ ,Er ³⁺ Nanoparticles by Plasmonic Nanoantenna Arrays. 2018 , 122, 15666-15672	12
750	Pure red upconversion luminescence and optical thermometry of Er ³⁺ doped sensitizer-rich SrYbInO ₄ phosphors. 2018 , 6, 7361-7366	49
749	Detection of choline and hydrogen peroxide in infant formula milk powder with near infrared upconverting luminescent nanoparticles. 2019 , 270, 415-419	15
748	Improving spectral modification for applications in solar cells: A review. 2019 , 132, 186-205	115
747	Nanocarbons and Their Composite Materials as Electrocatalyst for Metal-Air Battery and Water Splitting. 2019 , 455-496	
746	Highly Sensitive and Multiplexed Protein Measurements. 2019 , 119, 293-321	98
745	New morphological development in Gd ₆ O ₅ F ₈ :Yb ³⁺ ,Tm ³⁺ micro-particles and up-conversion luminescence property. 2019 , 161, 89-96	2
744	Long-Term Colloidal and Chemical Stability in Aqueous Media of NaYF ₄ -Type Upconversion Nanoparticles Modified by Ligand-Exchange. 2019 , 36, 1900235	32
743	Perspectives of molecular and nanostructured systems with d- and f-block metals in photogeneration of reactive oxygen species for medical strategies. 2019 , 398, 113012	16
742	Controllable luminescence of a Li-Al layered double hydroxide used as a sensor for reversible sensing of carbonate. 2019 , 7, 11191-11206	10
741	Surface modification of NaYF ₄ :Yb,Er nanomaterials. 2019 , 199, 138-142	4

740	Upconversion luminescence properties of BaMoO: Yb, Ln (Ln=Er/Tm, Er/Tm/Ho) micro-octahedrons. 2019 , 30, 454002	13
739	Preparation of novel mesoporous GdVO ₄ : Eu ³⁺ crystals by CTAB-SDS micellar-assisted hydrothermal method in wide pH range. 2019 , 96, 109254	2
738	Expanding the Toolbox of Upconversion Nanoparticles for In Vivo Optogenetics and Neuromodulation. 2019 , 31, e1803474	70
737	Synthesis of OA-NaYF ₄ :Yb,Er and Its Cytotoxicity. 2019 , 199, 143-147	5
736	Highly sensitive near infrared light derived sensor for methyl mercury based on Förster resonance energy transfer from In ₂ O ₃ : Yb ³⁺ , Er ³⁺ to CdTe. 2019 , 52, 375107	2
735	Evaluation of the energy transfer mechanism leading to tunable green-to-red cooperative up-conversion emission in Eu ³⁺ -Yb ³⁺ co-doped CaF ₂ powders. 2019 , 214, 116561	1
734	Photophysical Color Tuning for Photon Upconverting Nanoparticles. 2019 , 11, 27011-27016	7
733	Design of upconversion nanoparticles for intervention execution. 2019 , 61-72	
732	Highly efficient photocatalytic hydrogen generation of g-C ₃ N ₄ -CdS sheets based on plasmon-enhanced triplet-triplet annihilation upconversion. 2019 , 258, 117762	32
731	Understanding the White-Emitting CaMoO ₄ Co-Doped Eu ³⁺ , Tb ³⁺ , and Tm ³⁺ Phosphor through Experiment and Computation. 2019 , 123, 18536-18550	27
730	Potential Application of Upconverting Nanoparticles for Brain Photobiomodulation. 2019 , 37, 596-605	2
729	Nanophosphors-Based White Light Sources. 2019 , 9,	7
728	Selective enhancement of green upconversion luminescence from NaYF ₄ :Yb, Er microparticles through Ga ³⁺ doping for sensitive temperature sensing. 2019 , 215, 116632	14
727	Recent Advancements in Ln-Ion-Based Upconverting Nanomaterials and Their Biological Applications. 2019 , 36, 1900153	10
726	A tan for molecules: photocatalyzed synthesis with direct sunlight. 2019 , 30, 485-495	1
725	Sensitivity analysis of the theoretical performance of semiconductor upconversion nanostructures. 2019 , 126, 044301	0
724	Performance enhancement in up-conversion nanoparticle-embedded perovskite solar cells by harvesting near-infrared sunlight. 2019 , 3, 2058-2065	17
723	Near-infrared to visible upconversion and second harmonic generation in BaTiO ₃ :Ho ³⁺ and BaTiO ₃ :Ho ³⁺ /Yb ³⁺ phosphors. 2019 , 806, 1146-1152	9

- 722 Simultaneous Tailoring of Dual-Phase Fluoride Precipitation and Dopant Distribution in Glass to Control Upconverting Luminescence. **2019**, 11, 30053-30064 15
- 721 Yb,Nd,Er-doped upconversion nanoparticles: 980 nm versus 808 nm excitation. **2019**, 11, 13440-13449 40
- 720 Photonic upconversion in solution-processed Gd-based thin films for delayed quantum efficiency roll-off in a-Si flat panel image detectors. **2019**, 4, 705-712
- 719 Effect of melting temperature on the structure of self-crystallized Ba₂LaF₇ glass-ceramics. **2019**, 523, 119579 7
- 718 Mitochondria specific oxidative injury by near-infrared energy transfer nanoclusters for amplified photodynamic potency. **2019**, 557, 45-54 6
- 717 Microstructure investigation and multicolor upconversion in Yb³⁺/Ln³⁺ (Ln=Er/Tm/Ho) ions doped Bialon. **2019**, 29, 549-555 4
- 716 Synthesis and luminescence properties of Er³⁺ doped La₃NbO₇ ceramic powder. **2019**, 97, 109393 4
- 715 An individual-based model of seed- and rhizome-propagated perennial plant species and sustainable management of in soybean production systems in Argentina. **2019**, 9, 10017-10028 4
- 714 Investigation of new color-tunable up-conversion phosphors and their long-persistent luminescence properties for potential biomedical applications. **2019**, 125, 1
- 713 Remote Light-Responsive Nanocarriers for Controlled Drug Delivery: Advances and Perspectives. **2019**, 15, e1903060 89
- 712 EDTA functionalization of SrF₂:Yb,Er nanoparticles by hydrothermal synthesis: Intense red upconversion, NIR-to-NIR emission and luminescence nanothermometry characteristics. **2019**, 30, 20376-20392⁶
- 711 Perceiving Linear-Velocity by Multiphoton Upconversion. **2019**, 11, 46379-46385 14
- 710 Recent Progress of Rare-Earth Doped Upconversion Nanoparticles: Synthesis, Optimization, and Applications. **2019**, 6, 1901358 115
- 709 Photophysics of Up-Conversion Nanoparticles: Radical Photopolymerization of Multifunctional Methacrylates Comprising Blue- and UV-Sensitive Photoinitiators. **2019**, 3, 1119-1126 10
- 708 Multi-mode optical coded patterns enabled by upconversion nanoparticles and photonic crystals. **2019**, 30, 505706 9
- 707 Microwave Synthesis and Up-Conversion Properties of SHG-Active E(La, Er)(IO) Nanocrystals. **2019**, 58, 1647-1656 7
- 706 Femtosecond laser induced cross relaxation in Er³⁺ doped NaYF₄ glass ceramic. **2019**, 52, 505104 1
- 705 The orange red luminescence and conductivity response of Eu³⁺ doped GdOF phosphor: synthesis, characterization and their Judd-Ofelt analysis. **2019**, 6, 1250a2 2

704	Concentration-regulated photon upconversion and quenching in NaYF:Yb,Er nanocrystals: nonexponentiality revisited. 2019 , 11, 18150-18158	17
703	Control synthesis, subtle surface modification of rare-earth-doped upconversion nanoparticles and their applications in cancer diagnosis and treatment. 2019 , 105, 110097	26
702	Near-Infrared Excited Orthogonal Emissive Upconversion Nanoparticles for Imaging-Guided On-Demand Therapy. 2019 , 13, 10405-10418	65
701	Yttrium-dopants-induced phase-controllable and luminescence-tunable lanthanide-doped NaYbF_4 nanocrystals in glass for laser-driven upconverted lighting. 2019 , 39, 5364-5372	9
700	Up-conversion luminescence of Yb ³⁺ /Er ³⁺ doped Gd ₂ O ₃ phosphors for optical temperature sensing in green and red regions. 2019 , 452, 387-394	9
699	Recent advances of upconversion nanoparticles in theranostics and bioimaging applications. 2019 , 120, 115646	39
698	Tailoring up-conversion luminescence for single band located in first biological windows and optical thermometry of Yb ³⁺ /Ln ³⁺ (Ln = Er, Tm) doped oxyfluoride ceramics via Cr ³⁺ doping. 2019 , 215, 116629	6
697	Photon management properties of Yb-doped SnO nanoparticles synthesized by the sol-gel technique. 2019 , 21, 21407-21417	13
696	Breakthroughs in medicine and bioimaging with up-conversion nanoparticles. 2019 , 14, 7759-7780	20
695	Upconversion and downconversion nanoparticles for biophotonics and nanomedicine. 2019 , 400, 213042	45
694	Elongated Metal Nanocap with Two Magnetic Dipole Resonances and Its Application for Upconversion Enhancement. 2019 , 123, 25809-25815	1
693	Energetic hot electrons from exciton-to-hot electron upconversion in Mn-doped semiconductor nanocrystals. 2019 , 151, 120901	8
692	Investigations on the synthesis dependent luminescence property of LiGdF ₄ : Eu ³⁺ microcrystals. 2019 , 198, 163233	1
691	Norm-Conserving Pseudopotentials and Basis Sets To Explore Lanthanide Chemistry in Complex Environments. 2019 , 15, 5987-5997	22
690	Effect of the change of the ancillary carboxylate bridging ligand on the SMM and luminescence properties of a series of carboxylate-diphenoxido triply bridged dinuclear ZnLn and tetranuclear ZnLn complexes (Ln = Dy, Er). 2018 , 48, 190-201	7
689	Enhanced optical temperature sensing and upconversion emissions based on the Mn ²⁺ codoped NaGdF ₄ :Yb ³⁺ ,Ho ³⁺ nanophosphor. 2019 , 43, 5011-5019	21
688	Luminescent enhancement study of 3Tb,5Ce,5Li:CaF ₂ : effect of Li ⁺ ion concentration and hyperthermia applications of 3Tb:CaF ₂ /Fe ₃ O ₄ nanocomposite. 2019 , 43, 1328-1339	5
687	Preparation, growth mechanism, size manipulation and near-infrared luminescence enhancement of NaYF_4 :Nd ³⁺ microcrystals via Ca ²⁺ doping. 2019 , 21, 741-748	12

- 686 Tunable Resonator-Upconverted Emission (TRUE) Color Printing and Applications in Optical Security. **2019**, 31, e1807900 71
- 685 Near-infrared light-driven photocatalytic NaYF:Yb,Tm@ZnO core/shell nanomaterials and their performance.. **2019**, 9, 3688-3692 20
- 684 High-purity green emission in Yb³⁺/Ho³⁺ Co-doped BaIn₆Y₂O₁₃ up-conversion phosphor. **2019**, 45, 8428-84325
- 683 Upconversion nanoparticles for in vivo applications: limitations and future perspectives. **2019**, 7, 022001 36
- 682 FRET-Based Upconversion Nanoprobe Sensitized by Nd for the Ratiometric Detection of Hydrogen Peroxide in Vivo. **2019**, 11, 7441-7449 32
- 681 Plasmon-tuned upconversion luminescence in silanized NaYF₄:Yb,Er nanocrystals via ultra-thin gold film. **2019**, 113, 209-214 5
- 680 Boosting single-band red upconversion luminescence in colloidal NaErF₄ nanocrystals: Effects of doping and inert shell. **2019**, 37, 573-579 8
- 679 Facile Synthesis of Yb³⁺- and Er³⁺-Codoped LiGdF₄ Colloidal Nanocrystals with High-Quality Upconversion Luminescence. **2019**, 2019, 1-9 2
- 678 Upconversion luminescence in transparent oxyfluoride glass ceramics containing hexagonal NaErF₄. **2019**, 798, 326-332 1
- 677 Stretchable and Temperature-Sensitive Polymer Optical Fibers for Wearable Health Monitoring. **2019**, 29, 1902898 72
- 676 Upconversion metal (Zr, Hf, and Ta) oxide aerogels. **2019**, 55, 8174-8177 6
- 675 Fluorinated graphdiyne as a significantly enhanced fluorescence material.. **2019**, 9, 18377-18382 8
- 674 Explaining the influence of dopant concentration and excitation power density on the luminescence and brightness of β -NaYF₄:Yb³⁺,Er³⁺ nanoparticles: Measurements and simulations. **2019**, 12, 1871-1879 31
- 673 Engineering the Infrared Luminescence and Photothermal Properties of Double-Shelled Rare-Earth-Doped Nanoparticles for Biomedical Applications. **2019**, 5, 4089-4101 11
- 672 One-pot synthesis of ultrasmall β -NaGdF₄ nanoparticles with enhanced upconversion luminescence. **2019**, 7, 8898-8904 11
- 671 Functionalized Advanced Hybrid Materials for Biosensing Applications. **2019**, 171-207 7
- 670 Upconversion luminescence mediated photodynamic therapy through hydrophilically engineered porphyrin. **2019**, 142, 107551 5
- 669 Plasmon-Driven Rapid In Situ Formation of Luminescence Single Crystal Nanoparticle. **2019**, 15, e1901286 15

668	Synthesis and Near-Infrared Emission of Yb-Doped Cs ₂ AgInCl ₆ Double Perovskite Microcrystals and Nanocrystals. 2019 , 123, 15787-15793	69
667	Upconversion Luminescence in Yb/Ln (Ln = Er, Tm) Doped Oxyhalide Glasses Containing CsPbBr ₃ Perovskite Nanocrystals. 2019 , 39, 4275-4282	23
666	Upconversion nano-particles from synthesis to cancer treatment: A review. 2019 , 30, 1731-1753	14
665	Lanthanide-doped KYb ₃ F ₁₀ crystals: controllable phases, rich morphologies and Tb ³⁺ /Eu ³⁺ down-conversion emission. 2019 , 21, 3939-3947	3
664	Fluorescent gels: a review of synthesis, properties, applications and challenges. 2019 , 3, 1489-1502	60
663	Effect of Mn on Upconversion Emission, Thermal Sensing and Optical Heater Behavior of Yb - Er Codoped NaGdF Nanophosphors. 2019 , 7, 425	12
662	Morphology Control of Lanthanide Doped NaGdF ₄ Nanocrystals via One-Step Thermolysis. 2019 , 31, 5160-5171	25
661	Rare earth nanofluorides: synthesis using ionic liquids. 2019 , 39, 77-90	2
660	A Janus-inspired amphichromatic system that kills two birds with one stone for operating a "DNA Janus Logic Pair" (DJLP) library. 2019 , 10, 7290-7298	12
659	Expanding the toolbox for lanthanide-doped upconversion nanocrystals. 2019 , 52, 383002	18
658	Synthesis and enhanced upconversion luminescence upon two-wavelength excitation of Er ³⁺ :CaF ₂ transparent ceramics. 2019 , 213, 504-509	14
657	Cupredoxin engineered upconversion nanoparticles for ratiometric luminescence sensing of Cu. 2019 , 1, 2580-2585	11
656	Magnetic field effects on excited states, charge transport, and electrical polarization in organic semiconductors in spin and orbital regimes. 2019 , 68, 49-121	41
655	Simple Self-Referenced Luminescent pH Sensors Based on Upconversion Nanocrystals and pH-Sensitive Fluorescent BODIPY Dyes. 2019 , 91, 7756-7764	26
654	Upconversion Nanoplatform for FRET-Based Sensing of Dopamine and pH. 2019 , 4, 5407-5414	11
653	Upconversion luminescent perovskite CaTiO ₃ :Yb ³⁺ /Er ³⁺ nanocubes. 2019 , 797, 1002-1006	11
652	Rapid, Room Temperature Synthesis of Eu ³⁺ Doped NaBi(MoO ₄) ₂ Nanomaterials: Structural, Optical, and Photoluminescence Properties. 2019 , 19, 3379-3388	12
651	Comparative investigation of the optical spectroscopic and thermal effect in Nd-doped nanoparticles. 2019 , 11, 10220-10228	16

- 650 Low-Temperature Solid-State Synthesis and Upconversion Luminescence Properties in (Na/Li)Bi(MoO):Yb,Er and Color Tuning in (Na/Li)Bi(MoO):Yb,Ho,Ce Phosphors. **2019**, 58, 6821-6831 23
- 649 Upconversion Nanomaterials for Near-infrared Light-Mediated Theranostics. **2019**, 321-340
- 648 Precipitation of Er³⁺-doped Na₅Y₉F₃₂ crystals from fluoro-phosphate glasses: an advanced solid-state NMR spectroscopic study. **2019**, 7, 6728-6743 14
- 647 Simultaneous size manipulation and red upconversion luminescence enhancement of CaF:Yb/Ho nanoparticles by doping with Ce ions. **2019**, 9, 13201-13206 7
- 646 High-purity upconversion output color and excellent optical thermometry performance of lanthanide-doped Ba₃Y₄O₉. **2019**, 213, 174-183 11
- 645 Green synthesis and luminescence properties of lanthanide ions doped yttrium oxyfluoride microdiscs. **2019**, 484, 285-292 4
- 644 Preclinical Study of Biofunctional Polymer-Coated Upconversion Nanoparticles. **2019**, 170, 123-132 19
- 643 Enhancing Photoacoustic Intensity of Upconversion Nanoparticles by Photoswitchable Azobenzene-Containing Polymers for Dual NIR-II and Photoacoustic Imaging In Vivo. **2019**, 7, 1900045 13
- 642 A facile aqueous synthesis strategy for hexagonal phase NaGdF₄ nanorods. **2019**, 43, 7198-7201 4
- 641 Enhancement of near-infrared up-conversion and blue down-conversion luminescence in LuNbO₃:Yb,Tm with Ga and Ta substitutions. **2019**, 34, 500-507 3
- 640 Intense up-conversion emission from Er³⁺/Yb³⁺ ion co-doped transparent oxyfluoride glass-ceramics containing Y₅O₄F₇ nanorods for optical thermometry. **2019**, 7, 6134-6143 21
- 639 Recent progress of energy transfer and luminescence intensity boosting mechanism in Nd³⁺-sensitized upconversion nanoparticles. **2019**, 37, 791-805 20
- 638 Spatial Energy Transfer and Migration Model for Upconversion Dynamics in Core/Shell Nanostructures. **2019**, 123, 9506-9515 5
- 637 Guar gum modified upconversion nanocomposites for colorectal cancer treatment through enzyme-responsive drug release and NIR-triggered photodynamic therapy. **2019**, 30, 315102 18
- 636 Characterization of Pr-Doped LaF₃ Nanoparticles Synthesized by Different Variations of Coprecipitation Method. **2019**, 2019, 1-17 13
- 635 High Nd(III)-Sensitizer Concentrations for 800 nm Wavelength Excitation Using Isotropic Core/Shell Upconversion Nanoparticles. **2019**, 31, 3103-3110 15
- 634 Colour-optimized quantum yields of Yb, Tm Co-doped upconversion nanocrystals. **2019**, 7, 024001 14
- 633 The effects of photon-upconversion nanoparticles on the growth of radish and duckweed: Bioaccumulation, imaging, and spectroscopic studies. **2019**, 225, 723-734 14

632	First Principle Mechanical and Thermodynamic Properties of Some TbX (X = S, Se) Compounds. 2019 , 32, 2931-2938	3
631	A General In Situ Growth Strategy of Designing Theranostic NaLnF ₄ @Cu ₂ S Nanoplatform for In Vivo NIR-II Optical Imaging Beyond 1500 nm and Photothermal Therapy. 2019 , 2, 1800153	18
630	Upconversion color tunability and white light generation in Yb ³⁺ /Er ³⁺ /Tm ³⁺ tri-doped CaF ₂ single crystals. 2019 , 90, 40-45	13
629	Tailoring the photoluminescence of atomically precise nanoclusters. <i>Chemical Society Reviews</i> , 2019 , 48, 2422-2457	58.5 404
628	Red upconversion luminescence (UCL) properties in one-dimensional Yb ₂ Ti ₂ O ₇ :Er nanofibers via an electrospinning route. 2019 , 788, 993-999	25
627	Upconversion luminescence of t-(Y _{0.90} Yb _{0.08} RE _{0.02})PO ₄ uniformly dispersed microspheres (RE=Ho, Er, Tm). 2019 , 114, 101-106	2
626	Role of synthesis of upconversion nanoparticles towards surface modification and photocatalysis. 2019 , 42, 1	2
625	Structure and luminescence properties of CaWO ₄ -EuMO ₄ (M=Nb, Ta) solid solution. 2019 , 211, 183-192	8
624	Stimuli-responsive nanotheranostics based on lanthanide-doped upconversion nanoparticles for cancer imaging and therapy: current advances and future challenges. 2019 , 25, 38-67	64
623	Importance of the Mixing and High-Temperature Heating Steps in the Controlled Thermal Coprecipitation Synthesis of Sub-5-nm Na(Gd-Yb)F:Tm. 2019 , 58, 5082-5088	5
622	Suppressing the thermal degradation of bismuth near-infrared luminescence in optical amorphous materials via topologically polymerized network structures. 2019 , 7, 5074-5083	3
621	The Role of Ligands in the Chemical Synthesis and Applications of Inorganic Nanoparticles. 2019 , 119, 4819-4880	375
620	Mass production of poly(ethylene glycol) monooleate-modified core-shell structured upconversion nanoparticles for bio-imaging and photodynamic therapy. 2019 , 9, 5212	13
619	Near-infrared-laser-driven robust glass-ceramic-based upconverted solid-state-lighting. 2019 , 7, 4109-4117	20
618	Consequences of lead incorporation in fluorite structured thoria. 2019 , 45, 11709-11716	1
617	Near-infrared photochemistry assisted by upconverting nanoparticles. 2019 , 43-71	2
616	Photosensitive materials for constructing on-demanded drug-release systems. 2019 , 193-210	2
615	State-of-the-art strategies for the biofunctionalization of photoactive inorganic nanoparticles for nanomedicine. 2019 , 211-257	5

614	Fabrication and characterization of Eu ²⁺ -doped lanthanum-magnesium-gallium /TiO ₂ -based composition as photocatalytic materials for cement concrete-related methyl orange (MO) degradation. 2019 , 45, 10342-10347	3
613	A novel up-conversion fluorescence resonance energy transfer sensor for the high sensitivity detection of coumarin in cosmetics. 2019 , 290, 656-665	11
612	Luminescent properties of Eu ³⁺ doped CaF ₂ , SrF ₂ , BaF ₂ and PbF ₂ powders prepared by high-energy ball milling. 2019 , 91, 113-118	11
611	Improved negative thermal quenching effect via high sensitizer doping content in NaGdF ₄ based active-core/active-shell architecture. 2019 , 444, 131-136	1
610	Influence of Y ³⁺ /Er ³⁺ ratio on phase formation and spectroscopic properties of NaGd _{0.8} Y _x Yb _{0.17} Er _{0.03} F ₄ solid solutions. 2019 , 16, 035604	2
609	Functional Mesoporous Silica Nanocomposites: Biomedical applications and Biosafety. 2019 , 20,	31
608	Rare Earth Hydroxide as a Precursor for Controlled Fabrication of Uniform β -NaYF ₄ Nanoparticles: A Novel, Low Cost, and Facile Method. 2019 , 24,	2
607	Bright white-light emission and multicolor outputs in time domain from a core-shell structured microcrystal. 2019 , 787, 1120-1127	9
606	Optical temperature sensing based on thermal, non-thermal coupled levels and tunable luminescent emission colors of Er ³⁺ /Tm ³⁺ /Yb ³⁺ tri-doped Y ₇ O ₆ F ₉ phosphor. 2019 , 786, 770-778	24
605	Titanium mesh-supported TiO ₂ nanowire arrays/Yb-Er-F tri-doped TiO ₂ up-conversion nanoparticles/Composite structure: Designation for high efficient flexible dye-sensitized solar cells. 2019 , 681, 103-113	7
604	A Nd sensitized upconversion nanosystem with dual photosensitizers for improving photodynamic therapy efficacy. 2019 , 7, 1686-1695	20
603	Stability of the Eu ²⁺ Dopant in CsPbBr ₃ Perovskites: A First-Principles Study. 2019 , 123, 6965-6969	27
602	On the mechanisms of non-radiative energy transfer between lanthanide ions: centrosymmetric systems. 2019 , 210, 342-347	22
601	Classification of Transitions in Upconversion Luminescence of Lanthanides by Two-Dimensional Correlation Analysis. 2019 , 123, 2457-2461	3
600	Dual Stimuli-Responsive Block Copolymers for Controlled Release Triggered by Upconversion Luminescence or Temperature Variation. 2019 , 4, 3322-3328	11
599	Noninvasive temperature monitoring for dual-modal tumor therapy based on lanthanide-doped up-conversion nanocomposites. 2019 , 201, 42-52	45
598	Upconversion Luminescence of Gd ₂ O ₃ :Ln ³⁺ Nanorods for White Emission and Cellular Imaging via Surface Charging and Crystallinity Control. 2019 , 2, 1421-1430	15
597	Methylene Blue-Loaded Upconverting Hydrogel Nanocomposite: Potential Material for Near-Infrared Light-Triggered Photodynamic Therapy Application. 2019 , 4, 3169-3177	7

596	Photons and charges from colloidal doped semiconductor quantum dots. 2019 , 7, 14788-14797	7
595	Nanocrystallization of lanthanide-doped KLu ₂ F ₇ /Yb ₂ F ₇ solid-solutions in aluminosilicate glass for upconverted solid-state-lighting and photothermal anti-counterfeiting. 2019 , 7, 14571-14580	12
594	CsReF@glass nanocomposites with efficient up-/down-conversion luminescence: from in situ nanocrystallization synthesis to multi-functional applications. 2019 , 11, 22359-22368	28
593	Gold Nanomaterials for Imaging-Guided Near-Infrared Cancer Therapy. 2019 , 7, 398	14
592	Emitting/Sensitizing Ions Spatially Separated Lanthanide Nanocrystals for Visualizing Tumors Simultaneously through Up- and Down-Conversion Near-Infrared II Luminescence In Vivo. 2019 , 15, e1905344	18
591	Modeling intramolecular energy transfer in lanthanide chelates: A critical review and recent advances. 2019 , 55-162	18
590	Laser-Guided Microcanvas Printing of Multicolor Upconversion Nanoparticles on Molybdenum Disulfide Monolayer. 2019 , 6, 1901673	3
589	Studying the toxicity effects of coated and uncoated NaLuF ₄ : Yb ³⁺ , Tm ³⁺ upconversion nanoparticles on blood factors and histopathology for Balb/C mice's tissue. 2019 , 6, 125421	5
588	Luminescence dynamics and enhancement of the UV and visible emissions of Tm ³⁺ in LiYF ₄ :Yb ³⁺ ,Tm ³⁺ upconverting nanoparticles. 2019 , 1, 4492-4500	8
587	Rhodamine B derivative-modified up-conversion nanoparticle probes based on fluorescence resonance energy transfer (FRET) for the solid-based detection of copper ions.. 2019 , 9, 30917-30924	4
586	Er/Yb co-doped nanocrystals modified with 6-aminocaproic acid for temperature sensing in biomedicine.. 2019 , 9, 42228-42235	5
585	Solvothermal synthesis and modification of NaYF ₄ :Yb/Er@NaLuF ₄ :Yb for enhanced up-conversion luminescence for bioimaging.. 2019 , 9, 42163-42171	4
584	Coating of upconversion nanoparticles with silica nanoshells of 5-250 nm thickness. 2019 , 10, 2410-2421	5
583	Lower power dependent upconversion multicolor tunable properties in TiO ₂ :Yb ³⁺ /Er ³⁺ / (Tm ³⁺). 2019 , 45, 432-438	8
582	Yb ³⁺ /Er ³⁺ co-doped Lu ₂ TeO ₆ nanophosphors: Hydrothermal synthesis, upconversion luminescence and highly sensitive temperature sensing performance. 2019 , 772, 525-531	25
581	Biomedical Applications of Fluorescent and Magnetic Resonance Imaging Dual-Modality Probes. 2019 , 20, 499-510	17
580	The effect of low- and high-penetration light on localized cancer therapy. 2019 , 138, 105-116	32
579	Mass-Manufactural Lanthanide-Based Ultraviolet B Microlasers. 2019 , 31, e1807079	21

578	Synthesis and NIR photoluminescence studies of novel Yb(III) complexes of asymmetric perfluoryl β -diketone. 2019 , 208, 334-341	7
577	Energy Flux Manipulation in Upconversion Nanosystems. 2019 , 52, 228-236	54
576	DNA as a target for lanthanide(III) complexes influence. 2019 , 382, 145-159	37
575	Wide spectrum photocatalytic activity in lanthanide-doped upconversion nanophosphors coated with porous TiO and Ag-Cu bimetallic nanoparticles. 2019 , 367, 694-705	70
574	Highly selective and sensitive detection of catecholamines using NaLuGdF ₄ :Yb ³⁺ /Er ³⁺ upconversion nanoparticles decorated with metal ions. 2019 , 284, 172-178	15
573	Controllable competitive nanocrystallization of La ³⁺ -based fluorides in aluminosilicate glasses and optical spectroscopy. 2019 , 39, 1420-1427	11
572	Metal-Organic Frameworks for Photocatalysis and Photothermal Catalysis. 2019 , 52, 356-366	541
571	Upconversion-chameleon-driven DNA computing: the DNA-unlocked inner-filter-effect (DU-IFE) for operating a multicolor upconversion luminescent DNA logic library and Its biosensing application. 2019 , 6, 375-384	14
570	Tracing of dye molecules in living plants through NaGdF ₄ :Yb ³⁺ ,Er ³⁺ fluorescent nanoprobe. 2019 , 37, 237-241	4
569	A comparative study of spectral and temperature sensing properties of Er ³⁺ mono-doped LnNbO ₄ (Ln = Lu, Y, Gd) phosphors under 980 and 1500 nm excitations. 2019 , 111, 177-182	22
568	Energy-Transfer Editing in Lanthanide-Activated Upconversion Nanocrystals: A Toolbox for Emerging Applications. 2019 , 5, 29-42	91
567	A New Generation of NIR-II Probes: Lanthanide-Based Nanocrystals for Bioimaging and Biosensing. 2019 , 7, 1801417	106
566	Time-Gated Ratiometric Detection with the Same Working Wavelength To Minimize the Interferences from Photon Attenuation for Accurate Detection. 2019 , 5, 299-307	16
565	Multifunctional β -NaGdF ₄ : Ln ³⁺ (Ln=Yb/Er/Eu) phosphors synthesized by L-arginine assisted hydrothermal method and their multicolor tunable luminescence. 2019 , 110, 141-148	13
564	Dual Detection of Procalcitonin and C-reactive Protein with an Up-converting Nanoparticle Based Lateral Flow Assay. 2019 , 35, 257-263	9
563	Synthesis of orthorhombic K ₂ YF ₅ : Yb ³⁺ , Er ³⁺ /Tm ³⁺ nanocrystals and highly efficient multicolor up-conversion luminescence. 2019 , 110, 181-189	8
562	Near-Infrared Manipulation of Membrane Ion Channels via Upconversion Optogenetics. 2019 , 3, e1800233	25
561	Rational construction of novel rose petals-like yttrium molybdate nanosheets: A Janus catalyst for the detection and degradation of cardioselective β -blocker agent acebutolol. 2019 , 359, 1472-1485	16

560	Rare-earth free sensitizer in NaLuCrF ₄ :Er upconversion material. 2019 , 37, 345-349	5
559	Dual-model up/down conversion luminescence of Tm ³⁺ /Yb ³⁺ /Nd ³⁺ tri-doped Na ₅ Lu ₉ F ₃₂ single crystals. 2019 , 553, 18-22	1
558	Reversible and nonvolatile tuning of photoluminescence response by electric field for reconfigurable luminescent memory devices. 2019 , 55, 22-28	28
557	Photocatalysis in the Dark: Near-Infrared Light Driven Photoredox Catalysis by an Upconversion Nanoparticle/Photocatalyst System. 2019 , 3, 24-27	24
556	Using NMR Relaxometry to Probe Yb ³⁺ -Er ³⁺ Interactions in Highly Doped Nanocrystalline NaYF ₄ Nanostructures. 2019 , 123, 10-16	3
555	Colloidal Crystals of NaYF ₄ Upconversion Nanocrystals Studied by Small-Angle X-Ray Scattering (SAXS). 2019 , 36, 1800391	5
554	Co-precipitation synthesis, structural characterization and fluorescent analysis of Nd ³⁺ doped Y ₃ Al ₅ O ₁₂ and Yb ₃ Al ₅ O ₁₂ nanocrystallines. 2019 , 30, 2299-2308	2
553	Dye-Assembled Upconversion Nanocomposite for Luminescence Ratiometric in Vivo Bioimaging of Copper Ions. 2019 , 11, 430-436	31
552	Lipid-Wrapped Upconversion Nanoconstruct/Photosensitizer Complex for Near-Infrared Light-Mediated Photodynamic Therapy. 2019 , 11, 84-95	14
551	Luminescent nanomaterials for droplet tracking in a microfluidic trapping array. 2019 , 411, 157-170	15
550	Nanophotonic energy storage in upconversion nanoparticles. 2019 , 56, 473-481	33
549	Advanced Near-Infrared Light-Responsive Nanomaterials as Therapeutic Platforms for Cancer Therapy. 2019 , 2, 1800090	20
548	In Situ Synthesis of Dicarboxylic Acid Functionalized Upconversion Nanoparticles for Bioimaging Applications. 2019 , 3, 145-150	4
547	Broad spectrum photocatalytic system based on BiVO ₄ and NaYbF ₄ :Tm ³⁺ upconversion particles for environmental remediation under UV-vis-NIR illumination. 2019 , 243, 121-135	52
546	Chemically and thermally stable lanthanide-doped Y ₂ O ₃ nanoparticles for remote temperature sensing in catalytic environments. 2019 , 198, 235-240	25
545	Directional electron delivery and enhanced reactants activation enable efficient photocatalytic air purification on amorphous carbon nitride co-functionalized with O/La. 2019 , 242, 19-30	79
544	Controlling optical temperature detection of Ca ₃ Al ₂ O ₆ : Yb ³⁺ ,Er ³⁺ phosphors through doping. 2019 , 773, 393-400	23
543	Persistent luminescence instead of phosphorescence: History, mechanism, and perspective. 2019 , 205, 581-620	249

542	Regulation of morphologies and luminescence of $\text{NaGdF}_4\text{:Yb}^{3+}, \text{Er}^{3+}$ upconversion nanoparticles by hydrothermal method and their dual-mode thermometric properties. 2019 , 466, 320-327	17
541	Enhancement of 1.5 μm fluorescence signal from Er due to Yb in yttrium silicate powders pumped at 975 and 808 nm. 2018 , 7, 015003	2
540	Upconversion-based photodynamic cancer therapy. 2019 , 379, 82-98	173
539	Europium-activated luminescent nanoprobes: From fundamentals to bioapplications. 2019 , 378, 104-120	46
538	Phosphors-Based Photocatalysts for Wastewater Treatment. 2020 , 119-138	3
537	Nanophotocatalysis and Environmental Applications. 2020 ,	5
536	Full-color up-conversion emission from the molybdate of $\text{Yb}_{1.98}\text{Ln}_{0.02}\text{Mo}_4\text{O}_{15}$ (Ln=Er, Ho, Tm). 2020 , 814, 152237	4
535	Fluorescence resonance energy transfer between $\text{NH-NaYF}_4\text{:Yb,Er}/\text{NaYF}_4\text{@SiO}_2$ upconversion nanoparticles and gold nanoparticles for the detection of glutathione and cadmium ions. 2020 , 207, 120294	18
534	Thermally stable red emitting xenotime phosphate nanophosphors for displays. 2020 , 121, 110628	11
533	Radiolabeling nanomaterials for multimodality imaging: New insights into nuclear medicine and cancer diagnosis. 2020 , 228, 119553	58
532	Broadband-sensitive up-conversion phosphor of $\text{Ni}^{2+}, \text{Tm}^{3+}$ co-doped LiGa_5O_8 . 2020 , 217, 116795	6
531	Steric hindrance boosted upconversion for low-power imaging in vivo. 2020 , 218, 116837	4
530	Designing an aptamer based magnetic and upconversion nanoparticles conjugated fluorescence sensor for screening Escherichia coli in food. 2020 , 107, 106761	71
529	Upconversion luminescence nanomaterials: A versatile platform for imaging, sensing, and therapy. 2020 , 208, 120157	29
528	Upconversion nanoparticle incorporated oleogel as probable skin tissue imaging agent. 2020 , 379, 122272	11
527	Optimizing femtosecond laser-induced upconversion luminescence enhancement and suppression of Dy^{3+} -doped glass. 2020 , 17, 016001	0
526	Recent advances of lanthanide-doped upconversion nanoparticles for biological applications. 2020 , 31, 072001	34
525	Synthesis, characterization, and in vitro toxicity evaluation of upconversion luminescence $\text{NaLuF}_4\text{:Yb}^{3+}/\text{Tm}^{3+}$ nanoparticles suitable for medical applications. 2020 , 67, 720-731	3

524	Up-conversion luminescence of Mn ⁴⁺ sensitized by Yb ³⁺ , Er ³⁺ in NaMgGdTeO ₆ . 2020 , 818, 152816	2
523	Multicolor upconversion emission of Ho ³⁺ in single NaYF ₄ microrod. 2020 , 818, 152934	7
522	Optical tuning in lanthanide-based nanostructures. 2020 , 53, 053002	4
521	Controlling lanthanide-doped upconversion nanoparticles for brighter luminescence. 2020 , 53, 043001	7
520	Aptamer-guided upconversion nanoplatfom for targeted drug delivery and near-infrared light-triggered photodynamic therapy. 2020 , 34, 875-888	10
519	Epitaxial KNbO ₃ :Yb ³⁺ ,Er ³⁺ nanopattern for enhanced upconversion photoluminescence. 2020 , 813, 152238	1
518	Recent advances in the synthesis and application of Yb-based fluoride upconversion nanoparticles. 2020 , 7, 1067-1081	33
517	Upconversion luminescence modulated by alkali metal (Li, Na, and K) induced crystallization in Er ³⁺ /Yb ³⁺ co-doped β -PbF ₂ oxyfluoride glass ceramics. 2020 , 22, 686-694	5
516	Colloidal clusters of icosahedrons and face-centred cubes. 2020 , 563, 308-317	4
515	Effect of Bi addition on the upconversion luminescence properties of NaYbF ₄ :Er. 2020 , 35, 447-455	5
514	Morphology formation mechanism and fluorescence properties of nano-phosphor YPO ₄ :Sm ³⁺ excited by near-ultraviolet light. 2020 , 821, 153535	12
513	Origin of visible and near IR upconversion in Yb ³⁺ -Tm ³⁺ -Er ³⁺ doped BaMgF ₄ phosphor through energy transfer and cross-relaxation processes. 2020 , 99, 109511	4
512	Enhanced green up-conversion luminescence in In ₂ O ₃ :Yb ³⁺ /Er ³⁺ by tri-doping Zn ²⁺ . 2020 , 221, 117029	6
511	Photoluminescence properties of CaLa(PO) ₃ SiOF:Ce/Tb/Mn phosphors for applications in white light-emitting diodes and optical thermometers. 2020 , 229, 117886	9
510	A review on spectral converting nanomaterials as a photoanode layer in dye-sensitized solar cells with implementation in energy storage devices. 2020 , 2, e120	7
509	A critical review on the efficiency improvement of upconversion assisted solar cells. 2020 , 821, 153214	22
508	Time-Resolved Monitoring of Intracellular Processes with a Cyclical On-Off Photoswitchable Nanoprobe. 2020 , 5, 40-49	3
507	Efficient Photocatalysis of Composite Films Based on Plasmon-Enhanced Triplet-Triplet Annihilation. 2020 , 12, 717-726	12

- 506 Synchrotron-Based X-ray Analysis: Relating Compressive Lattice Strain with the Photoluminescence Intensity of Li⁺-Doped β -NaYF₄:Yb³⁺/Ln³⁺ (Ln³⁺ = Ho³⁺/Er³⁺/Tm³⁺) Upconversion Crystals. **2020**, 20, 468-478 5
- 505 Highly temperature-sensitive and blue upconversion luminescence properties of Bi₂Ti₂O₇:Tm³⁺/Yb³⁺ nanofibers by electrospinning. **2020**, 391, 123546 38
- 504 Fabrication and upconversion luminescence of novel transparent Er₂O₃ ceramics. **2020**, 40, 1767-1772 13
- 503 Visible/near-infrared driven highly efficient photocatalyst based on upconversion nanoparticles/g-C₃N₄ nanocomposite. **2020**, 508, 144839 12
- 502 Recent Advances in Photocatalysis over Metal-Organic Frameworks-Based Materials. **2020**, 4, 1900438 11
- 501 In-situ tailoring upconversion processes from lanthanide ions doped ferroelectric films through piezoelectric strain. **2020**, 219, 116914 4
- 500 Exploring the effect of aliovalent substitution of Pb²⁺ by Eu³⁺ on structural, morphological and optical properties of CH₃NH₃PbI₃ perovskite films. **2020**, 95, 044003 1
- 499 A versatile and low-cost chip-to-world interface: Enabling ICP-MS characterization of isotachophoretically separated lanthanides on a microfluidic device. **2020**, 1137, 11-18 3
- 498 The synergistic effect of Er and Ho on temporal color tuning of upconversion emission in a glass host: a facile excitation modulation technique for anti-counterfeiting applications. **2020**, 22, 25963-25972 7
- 497 Single band of red upconversion emission in Ce-based glass ceramics for light manipulation. **2020**, 227, 117527 4
- 496 Upconversion nanomaterials: a platform for biosensing, theranostic and photoregulation. **2020**, 17, 100329 10
- 495 Sensors/nanosensors based on upconversion materials for the determination of pharmaceuticals and biomolecules: An overview. **2020**, 220, 121383 5
- 494 Recent advances in bioelectronics chemistry. *Chemical Society Reviews*, **2020**, 49, 7978-8035 58.5 30
- 493 Manganese-Mediated Growth of ZnS Shell on KMnF₄:Yb,Er Cores toward Enhanced Up/Downconversion Luminescence. **2020**, 12, 11934-11944 14
- 492 In vivo immunotoxicity of Gd₂O₃:Eu nanoparticles and the associated molecular mechanism. **2020**, 34, e22562 2
- 491 Chemo/bionanosensors for medical applications. **2020**, 483-500 1
- 490 Energy transfer designing in lanthanide-doped upconversion nanoparticles. **2020**, 56, 15118-15132 6
- 489 NIR Photoregulated Theranostic System Based on Hexagonal-Phase Upconverting Nanoparticles for Tumor-Targeted Photodynamic Therapy and Fluorescence Imaging. **2020**, 10, 7

488	Up-Conversion Luminescent Nanoparticles for Molecular Imaging, Cancer Diagnosis and Treatment. 2020 , 15, 9431-9445	2
487	Recent advances in fluorescent upconversion nanomaterials: novel strategies for enhancing optical and magnetic properties to biochemical sensing and imaging applications. 2020 , 1-35	5
486	Assessing the protective effects of different surface coatings on NaYF ₃ :Yb, Er upconverting nanoparticles in buffer and DMEM. 2020 , 10, 19318	14
485	Up-Converting Lanthanide-Doped YAG Nanospheres. 2020 , 7,	3
484	Sub-20 nm LiErF ₄ -Based Upconversion Nanophosphors for Simultaneous Imaging and Photothermal Therapeutics. 2020 , 3, 8662-8671	7
483	A FRET-based upconversion nanoprobe assembled with an electrochromic chromophore for sensitive detection of hydrogen sulfide and. 2020 , 12, 17517-17529	8
482	Competition between two- and three-photon upconversion in Er ³⁺ -doped microcrystals. 2020 , 227, 117542	2
481	Photoactivation Strategies for Therapeutic Release in Nanodelivery Systems. 2020 , 3, 2000117	6
480	Lanthanide-Based Optical Probes of Biological Systems. 2020 , 27, 921-936	19
479	Monodispersed Sr ₂ GdF ₇ :Yb ³⁺ , Er ³⁺ nanocrystals: Hydrothermal synthesis and optical temperature sensing behavior. 2020 , 107, 110156	2
478	A novel near-infrared LiGaW ₂ O ₈ :Yb ³⁺ , Cr ³⁺ up-conversion phosphor with enhanced luminescence intensity based on Ho ³⁺ /Er ³⁺ bridges. 2020 , 8, 12189-12195	14
477	Metasurface Enhanced Sensitized Photon Upconversion: Toward Highly Efficient Low Power Upconversion Applications and Nanoscale E-Field Sensors. 2020 , 20, 6682-6689	8
476	Up-conversion study of CaF ₂ based oxy-fluoride core-shell particulate nano-glass ceramics via sol-gel method: Effect of Yb ³⁺ concentration and cell viability study. 2020 , 222, 165304	3
475	Upconversion nanoparticles coated with molecularly imprinted polymers for specific sensing. 2020 , 49, 17200-17206	3
474	Glass-limited Yb/Er:NaLuF ₄ nanocrystals: reversible hexagonal-to-cubic phase transition and anti-counterfeiting. 2020 , 8, 16151-16159	14
473	Intelligent Fe-Mn Layered Double Hydroxides Nanosheets Anchored with Upconversion Nanoparticles for Oxygen-Elevated Synergetic Therapy and Bioimaging. 2020 , 16, e2001343	40
472	Morphology Manipulation and Upconversion Luminescence Enhancement of β -NaLuF ₄ : Er ³⁺ Hexagonal Microtubes via Sr ²⁺ Doping. 2020 , 2020, 1-11	1
471	Controllable Synthesis of Upconversion Nanophosphors toward Scale-Up Productions. 2020 , 37, 2000129	6

470	Coordination-Assembled Water-Soluble Anionic Lanthanide Organic Polyhedra for Luminescent Labeling and Magnetic Resonance Imaging. 2020 , 142, 16409-16419	28
469	Up-converting nanoparticles synthesis using hydroxyl-carboxyl chelating agents: Fluoride source effect. 2020 , 153, 084706	1
468	Upconversion emission studies of single particles. 2020 , 35, 100956	20
467	Bright Infrared-to-Ultraviolet/Visible Upconversion in Small Alkaline Earth-Based Nanoparticles with Biocompatible CaF ₂ Shells. 2020 , 132, 21787-21796	3
466	Bright Infrared-to-Ultraviolet/Visible Upconversion in Small Alkaline Earth-Based Nanoparticles with Biocompatible CaF Shells. 2020 , 59, 21603-21612	15
465	Introduction to Infrared and Raman-Based Biomedical Molecular Imaging and Comparison with Other Modalities. 2020 , 25,	7
464	Background-Free Chromatographic Detection of Sepsis Biomarker in Clinical Human Serum through Near-Infrared to Near-Infrared Upconversion Immunolabeling. 2020 ,	16
463	A rapid in situ synthesis of wide-spectrum CD@BaCl ₂ phosphors via anti-solvent recrystallization for white LEDs. 2020 , 7, 4845-4853	5
462	Sensitive detection of excited energy levels in rare-earth optical materials by a magneto-optical resonant excitation technique. 2020 , 117, 101102	1
461	Size-tunable $\text{NaYF}_4\text{:Yb/Er}$ up-converting nanoparticles with a strong green emission synthesized by thermal decomposition. 2020 , 108, 110144	5
460	NIR light-triggered nanomaterials-based prodrug activation towards cancer therapy. 2020 , 12, e1643	9
459	Lanthanide-based inorganic-organic hybrid materials for photon-upconversion. 2020 , 8, 6946-6965	24
458	A comparison of the Yb ³⁺ absorption and upconversion excitation spectra for both the cubic and hexagonal phases of NaYF ₄ :Yb ³⁺ /Er ³⁺ nanoparticles. 2020 , 107, 110050	4
457	One-pot synthesis of theranostic nanocapsules with lanthanide doped nanoparticles. 2020 , 11, 6653-6661	4
456	Recent Advances in Porphyrin-Based Inorganic Nanoparticles for Cancer Treatment. 2020 , 21,	21
455	Up-conversion luminescence properties and energy transfer mechanism of SrAl ₂ B ₂ O ₇ : Er ³⁺ @Yb ³⁺ phosphors. 2020 , 840, 155489	5
454	NIR-NIR-Aufkonvertierung in molekularen Chrom-Ytterbium-Salzen. 2020 , 132, 18966-18970	4
453	La-doping induced localized excess electrons on (BiO)CO for efficient photocatalytic NO removal and toxic intermediates suppression. 2020 , 400, 123174	25

- 452 Recent Advances in Rare-Earth-Doped Nanoparticles for NIR-II Imaging and Cancer Theranostics. **2020**, 8, 496 19
- 451 Site-dependent photoluminescence and optical thermometric behaviors of double-perovskite CaBa₂WO₆:Er³⁺. **2020**, 749, 137410 3
- 450 Near-infrared-light regulated angiogenesis in a 4D hydrogel. **2020**, 12, 13654-13661 12
- 449 Photoluminescence, TGA/DSC and photocatalytic activity studies of Dy doped SrYO nanophosphors.. **2020**, 10, 21049-21056 1
- 448 Ultrabright Terbium Nanoparticles for FRET Biosensing and in Situ Imaging of Epidermal Growth Factor Receptors*. **2020**, 26, 14602-14611 6
- 447 Near-IR to Near-IR Upconversion Luminescence in Molecular Chromium Ytterbium Salts. **2020**, 59, 18804-18808 6
- 446 Upconverting nanoparticles: potential for a new heat regulating materials. **2020**, 265-283
- 445 Recent advance of carbon dots in bio-related applications. **2020**, 3, 022003 19
- 444 Eu³⁺-doped titanium oxide nanoparticles for optical thermometry in the first biological window. **2020**, 101, 109770 7
- 443 Upconversion nanoparticles: a toolbox for biomedical applications. **2020**, 147-176 3
- 442 Investigation of structural, microstructural and magnetic properties of Yb Y₁-F₃ solid solutions. **2020**, 142, 109449
- 441 Application of lanthanide-doped luminescence nanoparticles in imaging and therapeutics. **2020**, 205-241 2
- 440 Photocontrolled nanosystems for antibacterial drug delivery. **2020**, 311-344
- 439 Quantum Dot-Based Sensitization System for Boosted Photon Absorption and Enhanced Second Near-Infrared Luminescence of Lanthanide-Doped Nanoparticle. **2020**, 92, 6094-6102 17
- 438 Dual-Modal Photon Upconverting and Downshifting Emissions from Ultra-stable CsPbBr Perovskite Nanocrystals Triggered by Co-Growth of Tm:NaYbF Nanocrystals in Glass. **2020**, 12, 18705-18714 26
- 437 Upconversion nanocrystals for near-infrared-controlled drug delivery. **2020**, 345-371
- 436 NIR-Triggered Sequentially Responsive Nanocarriers Amplified Cascade Synergistic Effect of Chemo-Photodynamic Therapy with Inspired Antitumor Immunity. **2020**, 12, 32372-32387 19
- 435 Recent progress in all-visible-light-triggered diarylethenes. **2020**, 182, 108623 25

- 434 Upconversion nanoparticles as intracellular pH messengers. **2020**, 412, 6567-6581 3
- 433 Mechanism of magnetic field-modulated luminescence from lanthanide ions in inorganic crystal: a review. **2020**, 39, 1113-1126 10
- 432 Reverse microemulsion synthesis of mixed $\text{NaYF}_4\text{:Yb,Er}$ nanoparticles: calcination induced phase formation, morphology, and upconversion emission. **2020**, 96, 550-563 4
- 431 Tuning multicolor emission in $\text{AgNCs/Tm}^{3+}/\text{Mn}^{2+}$ -doped fluorophosphate glasses. **2020**, 535, 119968 3
- 430 Fluorescence resonance energy transfer-based drug delivery systems for enhanced photodynamic therapy. **2020**, 8, 3772-3788 23
- 429 A mini-review on recent progress of new sensitizers for luminescence of lanthanide doped nanomaterials. **2020**, 13, 1795-1809 44
- 428 Controllable synthesis of ultrasmall core-shell hexagonal upconversion nanoparticles towards full-color output. **2020**, 207, 164398 1
- 427 A novel upconversion emission material based on Er^{3+} - Yb^{3+} - Mo^{6+} tridoped Hydroxyapatite/Tricalcium phosphate (HA/ β -TCP). **2020**, 827, 154288 10
- 426 Hot electron and thermal effects in plasmonic catalysis of nanocrystal transformation. **2020**, 12, 8768-8774 12
- 425 Luminescence properties of $\text{PbF}_2\text{:Nd}^{3+}, \text{Er}^{3+}, \text{Yb}^{3+}$ Phosphors and its multi-wavelength sensitive bidirectional conversion mechanism. **2020**, 824, 153898 0
- 424 A Short Review on Rare Earth Doped NaYF_4 Upconverted Nanomaterials for Solar Cell Applications. **2020**, 21, 1868-1874 10
- 423 Atomic-Scale Structural Analysis of Homoepitaxial $\text{LaF}_3\text{:Yb,Tm}$ Core/Shell Upconversion Nanoparticles Synthesized through a Microwave Route. **2020**, 20, 2153-2163 0
- 422 Sharp photoluminescence of Pr^{3+} ions in yttrium oxyfluoride nanospheres: Thermographic phosphor characteristics using the fluorescence intensity ratio technique. **2020**, 6, 100041
- 421 Luminescent Spectral Rulers for Noninvasive Displacement Measurement through Tissue. **2020**, 5, 711-718 0
- 420 Hexadecylpyridinium Chloride Mediated Hydrothermal Synthesis of $\text{NaYF}_4\text{:Yb, Er}$ Nanocrystal and Their Luminescent Properties. **2020**, 20, 1866-1872 3
- 419 Photoswitchable spiropyran-capped hybrid nanoparticles based on UV-emissive and dual-emissive upconverting nanocrystals for bioimaging. **2020**, 392, 112303 7
- 418 Towards minimally invasive deep brain stimulation and imaging: A near-infrared upconversion approach. **2020**, 152, 59-65 4
- 417 Decomposition of amyloid fibrils by NIR-active upconversion nanoparticles. **2020**, 19, 29-33 1

- 416 Enhancing the red upconversion of water-soluble $\text{NaErF}_4\text{:Yb}$ nanocrystals through Ca^{2+} doping. **2020**, 93, 473-478 0
- 415 Photoluminescence tuning from glass-stabilized CsPbX_3 ($\text{X}=\text{Cl, Br, I}$) perovskite nanocrystals triggered by upconverting $\text{Tm: KYb}_2\text{F}_7$ nanoparticles for high-level anti-counterfeiting. **2020**, 395, 125214 46
- 414 Magnetite CaF_2 near-infrared photocatalysts fabricated with Ca-enriched ferrites derived from electroplating wastewater. **2020**, 394, 124868 6
- 413 Remarkable laser-driven upconverting photothermal effect of Cs_3LnF_6 @glass nanocomposites for anti-counterfeiting. **2020**, 394, 124889 27
- 412 Self-Sufficient and Highly Efficient Gold Sandwich Upconversion Nanocomposite Lasers for Stretchable and Bio-applications. **2020**, 12, 19840-19854 10
- 411 RETRACTED ARTICLE: Enhanced luminescence of Mo^{3+} -doped NaREF_4 nanowires prepared via coprecipitation/solvothermal ion-exchange method and their application in upconversion polyurethane composite. **2020**, 31, 8359-8369 1
- 410 Toward Luminescent Composites by Phase Transfer of $\text{SrF}_2\text{:Eu}^{3+}$ Nanoparticles Capped with Hydrophobic Antenna Ligands. **2020**, 6, 1086-1095 2
- 409 Lanthanide-Doped Core@Multishell Nanoarchitectures: Multimodal Excitable Upconverting/Downshifting Luminescence and High-Level Anti-Counterfeiting. **2020**, 16, e2000708 76
- 408 A mini-review on rare-earth down-conversion nanoparticles for NIR-II imaging of biological systems. **2020**, 13, 1281-1294 41
- 407 Bioactive, luminescent erbium-doped hydroxyapatite nanocrystals for biomedical applications. **2020**, 46, 16020-16031 9
- 406 Up-conversion behaviors of nano-structure $\text{BaTi}_{0.9}\text{Sn}_{0.1}\text{O}_3$ activated by $\text{Er}^{3+}/\text{Yb}^{3+}$ ions. **2020**, 209, 164571 2
- 405 Lanthanide-Doped Near-Infrared Nanoparticles for Biophotonics. **2021**, 33, e2000678 37
- 404 Pr^{3+} doped $\text{Li}_2\text{SrSiO}_4$: an efficient visible-ultraviolet C up-conversion phosphor. **2021**, 47, 4858-4863 3
- 403 Enhancing upconversion emission of Er^{3+} in single NaYF_4 microrod through constructing different inert and active shells with doping Yb^{3+} ions. **2021**, 857, 157578 9
- 402 $\text{Yb}^{3+}/\text{Er}^{3+}$ incorporated fluorotellurite glasses with varying TeO_2 content for optical temperature sensing based on upconverted FIR technique. **2021**, 229, 117677 9
- 401 Gold nanorods conjugated upconversion nanoparticles nanocomposites for simultaneous bioimaging, local temperature sensing and photothermal therapy of OML-1 oral cancer cells. **2021**, 12, 49-71 7
- 400 In Situ Probing of Surface Acoustic Waves by Interfacing with Lanthanide Emitters. **2021**, 9, 2001760 2
- 399 A strategy to enhance the up-conversion luminescence of nanospherical, rod-like and tube-like $\text{NaYF}_4\text{:Yb}^{3+}, \text{Er}^{3+} (\text{Tm}^{3+})$ by combining with carbon dots. **2021**, 23, 935-943 2

398	Large-scale one-pot synthesis of water-soluble and biocompatible upconversion nanoparticles for dual-modal imaging. 2021 , 198, 111480	27
397	NIR excitation of rare-earth ions in ceramics for diagnosis, bioimaging, and light-induced therapy. 2021 , 85-111	0
396	A water-soluble and upconverting Sr ₂ LaF ₇ : Yb/Er@PS/Am bio-probe for in vitro/vivo fluorescence imaging. 2021 , 111, 110652	1
395	Influence of the synthesis method on preferential clustering of Yb ³⁺ in CaF ₂ :Yb ³⁺ /Er ³⁺ upconverting nanoparticles. 2021 , 112, 110736	1
394	Bright constant color upconversion based on dual 980 and 1550 nm excitation of SrF ₂ :Yb ³⁺ , Er ³⁺ and β -NaYF ₄ :Yb ³⁺ , Er ³⁺ micropowders—considerations for persistence of vision displays. 2021 , 111, 110598	4
393	Self-assembly of colloidal inorganic nanocrystals: nanoscale forces, emergent properties and applications. <i>Chemical Society Reviews</i> , 2021 , 50, 2074-2101	58.5 16
392	Highly efficient BODIPY-doped upconversion nanoparticles for deep-red luminescence bioimaging. 2021 , 57, 1518-1521	9
391	Exciton diffusion in solid solutions of luminescent lanthanide β -diketonates. 2021 , 23, 914-920	0
390	Green, room-temperature, fast route for NH ₄ Yb ₂ F ₇ :Tm ³⁺ nanoparticles and their blue upconversion luminescence properties. 2021 , 111, 110605	1
389	Near-infrared light-induced photoisomerization and photodissociation of a chiral fluorescent photoswitch in cholesteric liquid crystals assisted by upconversion nanoparticles. 2021 , 17, 1404-1408	6
388	Metal-Organic Frameworks-Based Fluorescent Nanocomposites for Bioimaging in Living Cells and in vivo \square 2021 , 39, 473-487	6
387	Nanoprobes with aggregation-induced emission for theranostics. 2021 , 5, 603-626	27
386	Rapid aqueous-phase synthesis of highly stable K _{0.3} Bi _{0.7} F _{2.4} upconversion nanocrystalline particles at low temperature. 2021 , 8, 1039-1048	4
385	Synthesis and triplet sensitization of bis(arylselanyl)BOPHYs; potential application in triplet-triplet annihilation upconversion. 2021 , 45, 6091-6099	0
384	Overcoming barriers in photodynamic therapy harnessing nano-formulation strategies. <i>Chemical Society Reviews</i> , 2021 , 50, 9152-9201	58.5 56
383	Ultrasensitive Point-of-Care Test for Tumor Marker in Human Saliva Based on Luminescence-Amplification Strategy of Lanthanide Nanoprobes. 2021 , 8, 2002657	10
382	High Color-Purity Red, Green, and Blue-Emissive Core-Shell Upconversion Nanoparticles Using Ternary Near-Infrared Quadrature Excitations. 2021 , 13, 4402-4409	15
381	Lanthanide doped luminescence nanothermometers in the biological windows: strategies and applications. 2021 , 13, 7913-7987	35

380	TiO ₂ films obtained by the sol-gel process and doped with Yb ³⁺ and Er ³⁺ ions. 2021 , 97, 548-555	0
379	Luminescent Nanomaterials (I). 2021 , 1309, 67-96	
378	Formation of phosphonate coatings for improved chemical stability of upconverting nanoparticles under physiological conditions. 2021 , 50, 6588-6597	3
377	Near-Infrared II Optical Imaging. 2021 , 397-420	
376	Homo-hetero/core-shell structure design strategy of NaYF ₄ nanocrystals for superior upconversion luminescence.. 2021 , 11, 20746-20751	1
375	Lanthanide-doped nanoparticles in photovoltaics [more than just upconversion.	2
374	The effect of surface-capping oleic acid on the optical properties of lanthanide-doped nanocrystals. 2021 , 13, 12494-12504	3
373	Power-dependent photophysical pathways of upconversion in BaTiO ₃ :Er. 2021 , 23, 14587-14591	4
372	A mono-copper doped undeca-gold cluster with up-converted and anti-stokes emissions of fluorescence and phosphorescence. 2021 , 13, 5300-5306	4
371	BiO boosts brightness, biocompatibility and stability of Mn-doped Ba(VO) as NIR-II contrast agent. 2021 , 9, 3038-3046	0
370	A Fluorescent Sensor for Daunorubicin Determination Using 808 nm-excited Upconversion Nanoparticles. 2021 , 31, 2868	0
369	Enhancing the static green up-conversion luminescence of NaY(MoO ₄):Yb/Er microcrystals an annealing strategy for anti-counterfeiting applications. 2021 , 50, 7826-7834	4
368	Exploring the use of upconversion nanoparticles in chemical and biological sensors: from surface modifications to point-of-care devices. 2021 , 3, 5135-5165	3
367	The effects of dopant concentration and excitation intensity on the upconversion and downconversion emission processes of NaYF ₄ :Yb ³⁺ ,Er ³⁺ nanoparticles.	2
366	Selectively Manipulating Upconversion Emission Channels with Tunable Biological Photonic Crystals. 2021 , 125, 732-739	3
365	Orthogonal Emissive Upconversion Nanoparticles: Material Design and Applications. 2021 , 17, e2004552	16
364	MOF Embedded and Cu Doped CeO ₂ Nanostructures as Efficient Catalyst for Adipic Acid Production: Green Catalysis. 2021 , 11, 304	5
363	Solvothermal synthesis and upconversion luminescence of ultra-small Sc ₂ O ₃ : Yb, Er nanoparticles. 2021 , 112, 110786	2

- 362 Controlled synthesis and luminescent properties of Ca_{0.80}Yb_{0.20}F_{2.2}: 0.2 % Tm³⁺ nanocrystals. **2021**, 242, 109696
- 361 Afterglow Carbon Dots: From Fundamentals to Applications. **2021**, 2021, 1-27 4
- 360 Near infrared to ultraviolet upconversion nanocomposite for controlling the permittivity of polyspiropyran shell. **2021**, 94, 107042 5
- 359 Design and Synthesis of Luminescent Lanthanide-Based Bimodal Nanoprobes for Dual Magnetic Resonance (MR) and Optical Imaging. **2021**, 11, 6
- 358 Nano-scale applications in aquaculture: Opportunities for improved production and disease control. **2021**, 44, 359-370 2
- 357 Multiband emission from single $\text{NaYF}_4(\text{Yb,Er})$ nanoparticles at high excitation power densities and comparison to ensemble studies. **2021**, 14, 4107 3
- 356 Recent Advances in Aptamer Sensors. **2021**, 21, 15
- 355 Carbon Dot-Based Biosensors. **2021**, 1, 2000042 4
- 354 Effect of Mn⁴⁺ ions on the structure and luminescence properties of NaY(MoO₄)₂: Yb³⁺/Er³⁺ phosphor. **2021**, 113, 110873 5
- 353 Near-Infrared Light-Triggered Drug Release from Ultraviolet- and Redox-Responsive Polymersome Encapsulated with Core-Shell Upconversion Nanoparticles for Cancer Therapy.. **2021**, 4, 3264-3275 6
- 352 Clarifying a Competitive Crystallization Mechanism of Upconversion Luminescent Oxyfluoride Glass Ceramics by Solid-State NMR Spectroscopy. **2021**, 60, 5087-5099 2
- 351 Luminescent Erbium-Doped Silicon Thin Films for Advanced Anti-Counterfeit Labels. **2021**, 33, e2005886 15
- 350 Synthesis of Cerium Tetrafluoride and Cerium Trifluoride Nanoscale Polycrystals from Ammonium Hydrogen Difluoride. **2021**, 6, 11348-11354 2
- 349 High-efficiency and water-quenching-resistant Tb³⁺-based nanoparticles for single-particle imaging. **2021**, 1
- 348 Comparative Investigation on Upconversion Luminescence Properties of Lu₂O₃:Er/Yb and Lu₂O₂S:Er/Yb Phosphors. **2021**, 218, 2100014 3
- 347 Recent Advances of Circularly Polarized Luminescence in Photon Upconversion Systems. **2021**, 50, 546-552 2
- 346 Tunable dual-mode photoluminescences from SrAl₂O₄: Eu/Yb nanofibers by different atmospheric annealing. **2021**, 859, 158261 4
- 345 Colour modulation and enhancement of upconversion emissions in K₂NaScF₆:Yb/Ln (Ln = Er, Ho, Tm) nanocrystals. **2021**, 1

344	Solid-State Lighting. 2021 , 187-274	
343	Barium yttrium fluoride based upconversion nanoparticles as dual mode image contrast agents. 2021 , 124, 111937	3
342	Efficient Photocatalytic CO ₂ Reforming of Methane on Ru/La-g-C ₃ N ₄ by Promoting Charge Transfer and CO ₂ Activation**. 2021 , 5, 748-757	2
341	Upconversion Thermometry Using Yb ³⁺ /Er ³⁺ Co-Doped KY ₃ F ₁₀ Nanoparticles. 2021 , 4, 5696-5706	6
340	Recent Progress of Near-Infrared Fluorescence in vivo Bioimaging in the Second and Third Biological Window. 2021 , 37, 691-697	5
339	Broadband wavelength excitable Er ³⁺ , Ni ²⁺ co-doped MgGa ₂ O ₄ up-conversion phosphor. 2021 , 47, 13853-13858	
338	Near-infrared light-mediated Er ³⁺ and Yb ³⁺ co-doped CaTi ₄ O ₉ for optical temperature sensing behavior. 2021 , 233, 117737	5
337	Controlled growth of perovskite KMnF ₃ upconverting nanocrystals for near-infrared light-sensitive perovskite solar cells and photodetectors. 2021 , 56, 14207-14221	5
336	Yb ³⁺ and Er ³⁺ Codoped BaLiF ₃ Nanocrystals for X-ray Dosimetry and Imaging by Upconversion Luminescence. 2021 , 4, 6659-6667	4
335	Mesoporous Silica-Coated Upconverting Nanorods for Singlet Oxygen Generation: Synthesis and Performance. 2021 , 14,	1
334	State of the Art and Prospects for Halide Perovskite Nanocrystals. 2021 , 15, 10775-10981	222
333	Recent trends in the developments of analytical probes based on lanthanide-doped upconversion nanoparticles. 2021 , 139, 116256	13
332	Synthetic infrared nano-photosensitizers with hierarchical zoom-in target-delivery functionalities for precision photodynamic therapy. 2021 , 334, 263-274	9
331	NIR light-responsive nanocarriers for controlled release. 2021 , 47, 100420	10
330	Highly Versatile Upconverting Oxyfluoride-Based Nanophosphor Films. 2021 , 13, 30051-30060	1
329	X-ray-activated persistent luminescence nanomaterials for NIR-II imaging. 2021 , 16, 1011-1018	83
328	Photoactive Lanthanide-Based Upconverting Nanoclusters for Antimicrobial Applications. 2104480	9
327	Enhancing upconversion of Nd ³⁺ through Yb ³⁺ -mediated energy cycling towards temperature sensing. 2021 ,	6

326	Studies on crystal structure, morphology, optical and photoluminescence properties of flake-like Sb doped Y2O3 nanostructures. 1	16
325	Enhanced upconversion red light emission of TiO:Yb,Er thin film via Mn doping. 2021 , 29, 23159-23166	1
324	Morphology modulation and near infrared to visible upconversion luminescence properties of Er3+/Yb3+-doped HfNiMoO4 nanoparticles. 2021 , 47, 20659-20668	2
323	Facile Multistep Synthesis of ZnO-Coated HfNaF:Yb/Tm Upconversion Nanoparticles as an Antimicrobial Photodynamic Therapy for Persistent Small Colony Variants.. 2021 , 4, 6125-6136	2
322	Reproducible Single-Droplet multiplexed detection through Excitation-Encoded Tri-mode upconversion solid sensors. 2021 , 430, 131242	2
321	Lanthanides-doped near-infrared active upconversion nanocrystals: Upconversion mechanisms and synthesis. 2021 , 438, 213870	25
320	Ytterbium-Doped CsPbCl Quantum Cutters for Near-Infrared Light-Emitting Diodes. 2021 , 13, 34561-34571	12
319	Up-Conversion Luminescence Enhancement and Temperature Sensitivity Properties of La2O3: Yb3+/Er3+ Nanoparticles Induced via Tri-Doping Li+ Ions. 2021 , 6, 7213-7222	0
318	Composition adjustment verifies structure-property correlation in narrow-band green-emitting Zn4-Mg B6O13: Mn2+ phosphor. 2021 , 236, 118101	6
317	Volume and surface effects on two-photon and three-photon processes in dry co-doped upconversion nanocrystals. 1	
316	Enhance the performance of dye-sensitized solar cells by constructing upconversion-core/semiconductor-shell structured NaYF4:Yb,Er @BiOCl microprisms. 2021 , 224, 563-568	6
315	Optical and spectroscopic study of Nd2O3-doped SBN glass in the near-infrared, visible and UV regions under pumping up-conversion emissions. 2021 , 136, 1	10
314	Thermal-enhanced near-infrared upconversion luminescence of Er3+ for high-sensitive optical temperature sensing. 2021 , 236, 118153	1
313	Multiple fluorescent sensing responses of a 2D framework structure towards explosive: Synthesis, characterization and sensing performance. 2021 , 1238, 130418	
312	Applications of upconversion nanoparticles in cellular optogenetics. 2021 , 135, 1-12	4
311	Rare Earth Doped Luminescent Materials as Photocatalysts for Enhanced Photocatalytic Reactions. 2022 , 259-279	
310	Advances in upconversion enhanced solar cell performance. 2021 , 230, 111234	10
309	Enhancement of the Anti-Stokes Fluorescence of Hollow Spherical Carbon Nitride Nanostructures by High Intensity Green Laser. 2021 , 11,	1

308	Recent progress of upconversion nanoparticles in the treatment and detection of various diseases. 2021,	2
307	Nd-Doped Lanthanum Oxychloride Nanocrystals as Nanothermometers. 2021 , 125, 19887-19896	1
306	Review Concept and Application of Thermal Phenomena at 4f Electrons of Trivalent Lanthanide Ions in Organic/Inorganic Hybrid Nanostructure. 2021 , 10, 096006	3
305	Pegylated Eu-enabled submicron alumina spheres as potential theranostics agent RD cell line as model. 2021 , 28, 6063-6068	
304	Application of lanthanide-doped upconversion nanoparticles for cancer treatment: a review. 2021 , 16, 2207-2242	5
303	Plasmonic Oxygen Defects in MO (M = W or Mo) Nanomaterials: Synthesis, Modifications, and Biomedical Applications. 2021 , 10, e2101331	3
302	Gold Nanorods: The Most Versatile Plasmonic Nanoparticles. 2021 , 121, 13342-13453	42
301	Ligand-Sensitized Near-Infrared to Visible Linear Light Upconversion in a Discrete Molecular Erbium Complex. 2021 , 143, 15326-15334	7
300	Local Disorder Affecting NIR-Upconverting White Light Emission Manifests in Lattice Strain. 2021 , 125, 21211-21222	0
299	Wide spectral response perovskite solar cells mixed with NaGdF ₄ :Yb ³⁺ , Er ³⁺ @NaGdF ₄ :Eu ³⁺ core-shell rare earth nanoparticles. 2021 , 119, 111326	4
298	Advanced lanthanide doped upconversion nanomaterials for lasing emission. 2021 ,	1
297	Inorganic Nanomaterials with Intrinsic Singlet Oxygen Generation for Photodynamic Therapy. 2021 , 8, e2102587	11
296	Recent Advances of Upconversion Nanomaterials in the Biological Field. 2021 , 11,	6
295	A Synergy Approach to Enhance Upconversion Luminescence Emission of Rare Earth Nanophosphors with Million-Fold Enhancement Factor. 2021 , 11, 1187	2
294	Super-Resolution Imaging With Lanthanide Luminescent Nanocrystals: Progress and Prospect. 2021 , 9, 692075	3
293	Enhanced one-band near infrared upconversion luminescence of Yb ³⁺ -Tm ³⁺ co-doped BiOCl _{1-x} Br _x nanosheet by tuning band gap. 2021 , 238, 118295	1
292	Upconversion luminescence characteristics of Er / Yb / P codoped double cladding fiber based on nanoporous silica glass. 2021 , 47, 29335-29341	1
291	Citric acid-assisted terbium-doped cerium molybdate nanoparticles as photoluminescent probe for selective and sensitive detection of Pb ²⁺ ion in aqueous solution. 2021 , 32, 26821	1

290	Theranostic nanobubbles towards smart nanomedicines. 2021 , 339, 164-194	5
289	Phase and morphology evolution of NaGdF ₄ :Yb,Er nanocrystals with power density-dependent upconversion fluorescence via one-step microwave-assisted solvothermal method. 2021 , 239, 118283	1
288	Enhanced red emission of Yb, Ho: NaYGd(WO ₄) ₂ phosphors by codoping Ce ³⁺ . 2021 , 240, 118432	0
287	Linear and nonlinear photoluminescence from thermally stable KYF ₄ :Eu ³⁺ cubic nanocrystals. 2021 , 885, 160893	5
286	Synthesis and upconversion luminescence of Ba ₂ ScAlO ₅ hosted compounds. 2021 , 304, 122559	4
285	Safety and efficacy of citric acid-upconverting nanoparticles for multimodal biological imaging in BALB/c mice. 2021 , 36, 102485	0
284	Extremely intense green up-conversion luminescent and ultra-high temperature sensitivity in Er ³⁺ /Yb ³⁺ co-doped BiTa ₇ O ₁₉ phosphors. 2022 , 241, 118484	3
283	Nanowire array fabrication for high throughput screening in the biosciences. 2022 , 279-308	
282	Host dependent upconversion, color tunability and laser induced optical heating via NIR excitation in Ho ³⁺ , Yb ³⁺ doped YXO ₄ (X = V, Nb, Ta) phosphor materials: Application as a security tool and optical heater. 2022 , 145, 111568	1
281	Surface-rare-earth-rich upconversion nanoparticles induced by heterovalent cation exchange with superior loading capacity. 2022 , 97, 223-228	0
280	Strong interface contact between NaYF ₄ :Yb,Er and CdS promoting photocatalytic hydrogen evolution of NaYF ₄ :Yb,Er/CdS composites. 2022 , 102, 1-7	0
279	Pathogenic Virus Detection by Optical Nanobiosensors. 2021 , 2, 100288	12
278	Research Progress on the Application of Lanthanide-Ion-Doped Phosphor Materials in Perovskite Solar Cells. 2021 , 9, 1035-1060	14
277	Abnormal thermally enhanced upconversion luminescence of lanthanide-doped phosphors: proposed mechanisms and potential applications. 2021 , 9, 2220-2230	17
276	PEI functionalized NaCeF ₄ :Tb/Eu for photoluminescence sensing of heavy metal ions and explosive aromatic nitro compounds.. 2021 , 11, 19333-19350	3
275	Upconversion Nanoparticle-Mediated Optogenetics. 2021 , 1293, 641-657	2
274	The metal doping strategy in all inorganic lead halide perovskites: synthesis, physicochemical properties, and optoelectronic applications. 2021 , 13, 18010-18031	6
273	LiYF ₄ -nanocrystal-embedded glass ceramics for upconversion: glass crystallization, optical thermometry and spectral conversion.. 2021 , 11, 2066-2073	3

272	Visible Luminescence of Y ₂ SiO ₅ :Tb ³⁺ Powders Excited by Simultaneous Absorption of up to Five Photons in the Short Wavelength IR Band. 2021 , 125, 3119-3126	2
271	Luminescent lanthanide-macrocycle supramolecular assembly. 2021 , 57, 11443-11456	2
270	Upconversion Nanoparticle-Based Strategy for Crossing the Blood-Brain Barrier to Treat the Central Nervous System Disease. 2019 , 2054, 263-282	5
269	Functional DNA-Integrated Nanomaterials for Biosensing. 2013 , 277-305	5
268	The Applications of Upconversion Nanoparticles in Bioassay. 2015 , 233-253	2
267	Tri-channel photon emission of lanthanides in lithium-sublattice core-shell nanostructures for multiple anti-counterfeiting. 2020 , 397, 125451	15
266	Intense and color-tunable upconversion luminescence of Er ³⁺ doped and Er ³⁺ /Yb ³⁺ co-doped Ba ₃ Lu ₄ O ₉ phosphors. 2017 , 701, 806-815	37
265	Zirconium and lanthanide effects on the structural, dielectric and optical properties of Na _{0.8} Ba _{0.2} Nb _{0.8} Ti _{0.2} O ₃ ferroelectric ceramic. 2020 , 24, 101223	1
264	Clean synthesis of YOF:Er ³⁺ , Yb ³⁺ upconversion colloidal nanoparticles in water through liquid phase pulsed laser ablation for imaging applications. 2017 , 72, 730-736	10
263	Understanding the Structural and Electronic Properties of Bismuth Trihalides and Related Compounds. 2020 , 59, 3377-3386	4
262	Thulium- and Erbium-Doped Nanoparticles with Poly(acrylic acid) Coating for Upconversion Cross-Correlation Spectroscopy-based Sandwich Immunoassays in Plasma. 2021 , 4, 432-440	7
261	Chapter 14:NIR Light for Initiation of Photopolymerization. 2018 , 431-478	18
260	Quantum control and enhancement of multi-color emissions in upconversion nanoparticles. 2017 , 110, 221110	7
259	Unmodified Rose Bengal photosensitizer conjugated with NaYF ₄ :Yb,Er upconverting nanoparticles for efficient photodynamic therapy. 2020 , 31, 465101	13
258	Infrared neuromodulation:a neuroengineering perspective. 2020 , 17, 051003	4
257	Excitation power and Er ³⁺ concentration effect on the color quality parameters in Y ₂ O ₃ :Er ³⁺ /Yb ³⁺ /Tm ³⁺ nanophosphors. 2018 , 12, 1	2
256	Pure and Intense Green Upconversion Emission and Temperature Sensing Properties of Ba ₅ Gd ₈ Zn ₄ O ₂₁ :Ho ³⁺ /Yb ³⁺ Nanophosphors. 2017 , 9, 1919-1925	3
255	MUTE-SIM: multiphoton up-conversion time-encoded structured illumination microscopy. 2020 , 3, 594	2

- 254 Recent Advances in Lanthanide Based Nano-Architectures as Probes for Ultra High-Field Magnetic Resonance Imaging. **2020**, 27, 352-361 5
- 253 Nanomedicine and Early Cancer Diagnosis: Molecular Imaging using Fluorescence Nanoparticles. **2020**, 20, 2737-2761 5
- 252 Up- and Down-Conversion Luminescence of LuNbO₄:Yb³⁺, Er³⁺ Phosphors. **2017**, 54, 70-74 4
- 251 Visible green upconversion luminescence of Li⁺/Er³⁺/Yb³⁺-co-doped CaWO₄ phosphor and effects of Yb³⁺-concentration. **2013**, 23, 142-145 1
- 250 Luminescence selective output characteristics tuned by laser pulse width in Tm³⁺ doped NaYF₄ nanorods. **2016**, 65, 204205 4
- 249 Tuning upconversion fluorescence emission of -NaLuF₄:Yb³⁺/Ho³⁺ nanocrystals through codoping Ce³⁺ ions. **2017**, 66, 204206 3
- 248 Up-Converting Lanthanide Ions Doped Fluoride Nanophosphors: Advances from Synthesis to Applications. **2021**, 159-211
- 247 Organic Triplet Photosensitizers for Triplet-Triplet Annihilation Upconversion. **2022**, 71-105 0
- 246 Emerging Design Principle of Near-Infrared Upconversion Sensitizer Based on Mitochondria-Targeted Organic Dye for Enhanced Photodynamic Therapy. **2021**, 27, 16707-16715 1
- 245 Optical Imaging in the Second Near Infrared Window for Vascular Bioimaging. **2021**, 17, e2103780 8
- 244 Strong Enhancement of Upconversion Luminescence by 3-Dimensional Plasmonic Nano-Cavities. **2012**, 1115-1116
- 243 Green Lighting Upconversion in Yb³⁺, Er³⁺-Co-doped PbWO₄. **2012**, 33, 1115-1116
- 242 Analysis of upconversion luminescence from Yb³⁺, Er³⁺ co-doped SrMoO₄. **2012**, 22, 241-246
- 241 Controlled Synthesis of Lanthanide-Doped Nanoparticles. **2014**, 43-58
- 240 Concluding Remarks and Perspectives. **2014**, 189-192
- 239 In Vitro Luminescent Biodetection Based on Lanthanide-Doped Nanoprobes. **2014**, 125-143
- 238 Quantum Aspects of Light-Matter Interaction. **2015**, 1-35
- 237 Upconversion Nanoparticles for Biosensing. **2015**, 255-284 1

236 Immunotherapy and Vaccines. **2016**, 441-464

235 Upconversion luminescence from poly-crystalline Yb³⁺, Er³⁺-co-doped NaGd(MoO₄)₂ by simple solid state method. **2016**, 26, 159-163

234 Up-Converting Nanoparticles. **2017**, 490-523

233 Inorganic Nanoplatfoms for Simultaneous Cancer Imaging and Therapy: Status and Challenges. **2017**, 6, 1-11

232 Biocompatible Er, Yb co-doped fluoroapatite upconversion nanoparticles for imaging applications. **2017**,

231 Literature Review. **2018**, 1-50

230 Up-Converting Nanoparticles. **2018**, 278-311

229 Prospects For Application of Upconversion Particles NaYF₄:Er,Yb for Phototherapy. **2018**, 18, 253-274

228 Upconversion emission investigation of Tb³⁺/Yb³⁺ codoped CdF₂ single crystals under infrared laser pump. **2018**,

227 Optical Properties of Ceramics. **2019**, 181-211

1

226 Upconversion Luminescent Materials: Properties and Luminescence Mechanisms. **2019**, 1-32

225 Synthesis and Preparation of Upconverting Phosphor Particles. **2019**, 33-62

0

224 Tunable Resonator-Upconverted Emission (TRUE) Color Prints for Anti-counterfeiting Applications. **2019**,

223 Effects of sodium dodecyl sulfate surfactant on up-conversion luminescence of Er³⁺/Yb³⁺-codoped NaLa (MoO₄)₂ nanocolloidal phosphor prepared by pulsed laser ablation in water. **2019**, 20, 158-163

222 Functionalized upconversion luminescent nanoparticles for theranostics. **2019**,

221 Upconversion Nanodevice-Assisted Healthy Molecular Photocorrection. **2021**, 7, 291-298

0

220 Structural insights on Li⁺ doped P crystals of upconverting NaYF₄:Yb³⁺/M³⁺ (M³⁺ = Er³⁺ or Tm³⁺) through extensive synchrotron radiation-based X-ray probing.

0

219 Near-infrared probes for luminescence lifetime imaging.. **2022**, 6, 91-102

1

218	Rare earth-based materials for bone regeneration: Breakthroughs and advantages. 2022 , 450, 214236	2
217	Finite-Size Effects on Energy Transfer between Dopants in Nanocrystals.. 2022 , 2, 111-118	0
216	The Applications and Functions of Rare-Earth Ions in Perovskite Solar Cells.	0
215	Concentration effects of fluorescence quenching and optical transition properties of Dy ³⁺ doped NaYF ₄ phosphor. 2021 , 895, 162616	2
214	Photon Upconversion in Lanthanide-Activated Inorganic Luminescent Materials. 86-116	2
213	A Wide Portray of Upconversion Nanoparticles: Surface Modification for Bio-applications. 2021 , 335-369	
212	Synthesis of YAlO ₃ up-conversion powder using a co-precipitation technique. 2020 , 59, 112004	0
211	Upconversion Nanoparticles: Synthesis, Photoluminescence Properties, and Applications. 2020 , 15, 655-678	1
210	Stem cell tracking with optically active nanoparticles. 2013 , 3, 232-46	22
209	Towards highly active heterogeneous catalysts via a sequential noncovalent bonding strategy.	
208	Solvothermal synthesis of Nb-doped TiO nanoparticles with enhanced sonodynamic effects for destroying tumors.. 2021 , 11, 36920-36927	
207	A signal processor made from DNA assembly and upconversion nanoparticle for pharmacokinetic study. 2022 , 42, 101352	2
206	Metal halide perovskite quantum dots for amphiprotic bio-imaging. 2022 , 452, 214313	5
205	The upconversion luminescence from visible to near-infrared in pyrosilicate C-Er ₂ Si ₂ O ₇ . 2021 , 897, 162963	0
204	Flash Synthesis of DNA Hydrogel via Supramacromolecular Assembly of DNA Chains and Upconversion Nanoparticles for Cell Engineering. 2107267	4
203	Amplifying Upconversion by Engineering Interfacial Density of State in Sub-10 nm Colloidal Core/Shell Fluoride Nanoparticles. 2021 ,	5
202	Recent Progress in Utilizing Upconversion Nanoparticles with Switchable Emission for Programmed Therapy. 2100172	1
201	Recent advances in enhancing reactive oxygen species based chemodynamic therapy. 2021 ,	3

200	Engineering DNA on the Surface of Upconversion Nanoparticles for Bioanalysis and Therapeutics. 2021 ,	6
199	Self-Assembly of Upconversion Nanoparticles Based Materials and Their Emerging Applications. 2021 , e2103241	1
198	Recent advances and emerging trends of rare-earth-ion doped spectral conversion nanomaterials in perovskite solar cells. 2021 ,	1
197	Tm ³⁺ heavily doped NIR-III bioprobe with 1 m Stokes shift towards deep-tissue applications.	2
196	Hexagonal-phase NaREF upconversion nanocrystals: the matter of crystal structure. 2021 ,	5
195	Subwavelength-resolution imaging of surface plasmon polaritons with up-conversion fluorescence microscopy.. 2022 , 30, 3113-3124	0
194	Understanding the shell passivation in Ln ³⁺ -doped luminescent nanocrystals.	3
193	Thermal enhancement of 2H11/2-4I15/2 up-conversion luminescence of BaLu ₆ (Si ₂ O ₇) ₂ (Si ₃ O ₁₀):Er ³⁺ /Yb ³⁺ phosphors. 2022 , 252, 168544	
192	Target delivery of photo-triggered nanocarrier for externally activated chemo-photodynamic therapy of prostate cancer. 2022 , 23, 100688	2
191	Bioactive rare earth-based inorganic-organic hybrid biomaterials for wound healing and repair. 2022 , 26, 101304	4
190	Near-infrared-emitting upconverting BiVO nanoprobes for in vivo fluorescent imaging.. 2021 , 270, 120811	
189	Upconversion Yb/Er:LaTiO phosphors for solid-state lighting and optical thermometry.. 2022 , 270, 120854	0
188	Upconversion Hybrid Phosphors for Biological Applications. 2022 , 195-222	
187	Enhanced Upconversion Photoluminescence Assisted by Flexoelectric Field in Oxide Nanomembranes. 2100454	1
186	Thermal Annealing and Doping Induced Tailoring of Phase and Upconversion Luminescence of NaYF ₄ :Yb Er Microcrystals. 1-16	1
185	The pH Value Control of Morphology and Luminescence Properties of GdOS: Tb Phosphors.. 2022 , 15,	0
184	Progress on Lanthanide Ion-Activated Inorganic Hybrid Phosphors: Properties and Applications. 2022 , 303-359	
183	Review of Noninvasive or Minimally Invasive Deep Brain Stimulation.. 2021 , 15, 820017	1

- 182 Isotypic lanthanide-organic frameworks and scintillating films with colour-tunable X-ray radioluminescence for imaging applications. **2021**, 0
- 181 Photoluminescent rare-earth nanocrystal-based characterization methods: Advancements in photophysical applications. **2022**, 1-18
- 180 Controlled synthesis and upconversion luminescence properties of heterogeneous isomorphous Yb³⁺/Er³⁺ co-doped Na_{0.9}Ca_{0.9}Gd_{1.1}F₆ nanorods with multiple luminescence centers. **2022**, 24, 251-259 0
- 179 Tuning and optimization of upconversion phosphors. **2022**, 251-290
- 178 Physics of inorganic upconverting nanophosphors and their relevance in applications. **2022**, 49-102
- 177 Application of upconversion-luminescent materials in photodynamic therapy. **2022**, 375-390 0
- 176 Evaluation of relative beam-profile-compensated quantum yield of upconverting nanoparticles over a wide dynamic range of power densities.. **2022**, 1
- 175 Near-Infrared Activation of Sensory Rhodopsin II Mediated by NIR-to-Blue Upconversion Nanoparticles.. **2021**, 8, 782688 0
- 174 Upconversion nanoparticles for sensing applications. **2022**, 311-336 0
- 173 Assessment of cytotoxicity upconversion nanoparticles coated by SiO₂ on different cell lines. **2022**,
- 172 Spiropyran-based advanced photoswitchable materials: A fascinating pathway to the future stimuli-responsive devices. **2022**, 51, 100487 8
- 171 Preparation of core-shell structured NaYF₄:Yb³⁺/Tm³⁺@NaYF₄:Yb³⁺/Er³⁺ nanoparticles with high sensitivity, low resolution and good reliability and application of their fluorescence temperature properties. 1
- 170 A single-beam NIR laser-triggered full-color upconversion tuning of a Er/Tm:CsYbF@glass photothermal nanocomposite for optical security.. **2022**, 0
- 169 Enhanced up-conversion photoluminescence in fluoride-oxyfluoride nanophosphor films by embedding gold nanoparticles. 2
- 168 Simultaneous ultraviolet-C and near-infrared enhancement in heterogeneous lanthanide nanocrystals.. **2022**, 1
- 167 Tunable multicolor and bright white emission in PEG modified NaGdF nanocrystals by systematic introduction of Ce and Mn/Ln.. **2022**, 12, 7883-7891
- 166 Controlling upconversion in emerging multilayer core-shell nanostructures: from fundamentals to frontier applications.. *Chemical Society Reviews*, **2022**, 58.5 16
- 165 Strong Red Up-Conversion Emission in Thin Film Devices Based on Rare-Earth Oxides Obtained from Templating 2D Coordination Networks. **2022**, 2022, 0

164	Biocompatible Yb/Er Co-activated La(WO) Upconversion Nanophosphors for Optical Thermometry, Biofluorescent, and Anticancer Agents.. 2022 , 61, 3851-3865	2
163	Engineered lanthanide-doped upconversion nanoparticles for biosensing and bioimaging application.. 2022 , 189, 109	5
162	Near-Infrared-to-Near-Infrared Optical Thermometer BaYO: Yb/Nd Assembled with Photothermal Conversion Performance.. 2022 , 61, 5425-5432	0
161	The In Vivo Toxicity Assessments of Water-Dispersed Fluorescent Silicon Nanoparticles in .. 2022 , 19,	1
160	Resonant Control and Enhancement of Upconversion Luminescence of NaYF ₄ :Yb,Er Nanoparticles on Metal Gratings. 2102668	1
159	Surface modified hexagonal upconversion nanoparticles for the development of competitive assay for biodetection. 2022 , 212763	0
158	Erasable glass-stabilized perovskite quantum dots for NIR-laser-stimuli-responsive optical security. 2022 , 3, 100794	1
157	Stability, dissolution, and cytotoxicity of NaYF ₄ -upconversion nanoparticles with different coatings.. 2022 , 12, 3770	4
156	The role of chelating agent on the structure and up-conversion property of NaLuF ₄ :Yb,Tm as security ink phosphor. 2022 , ahead-of-print,	
155	Near-infrared excitation/emission microscopy with lanthanide-based nanoparticles.. 2022 , 1	1
154	Upconversion luminescence and non-contact optical temperature sensing in Ho ³⁺ -doped 0.94Na _{0.5} Bi _{0.5} TiO ₃ -0.06BaTiO ₃ lead-free ceramics. 2022 , 127, 112239	0
153	Influence of rare earth doping and calcination temperature on temperature sensitivity of gadolinium molybdate nanoparticle. 2022 , 907, 164462	0
152	Expanded solar absorption spectrum to improve photoelectrochemical oxygen evolution reaction: Synergistic effect of upconversion nanoparticles and ZnFe ₂ O ₄ /TiO ₂ . 2022 , 438, 135503	2
151	A near-infrared phosphor doped with Cr ³⁺ towards zero-thermal-quenching for high-power LEDs. 2022 , 24, 100839	2
150	One-pot modification of oleate-capped UCNPs with AS1411 G-quadruplex DNA in a fully aqueous medium. 2022 , 642, 128675	0
149	Study of spatial distribution of upconversion nanoparticles in sections of rat organs and tumors by the luminescent method. 2021 ,	
148	Novel Polymerization of Dental Composites Using Near-Infrared-Induced Internal Upconversion Blue Luminescence.. 2021 , 13,	0
147	The upconversion quantum yield (UCQY): a review to standardize the measurement methodology, improve comparability, and define efficiency standards.. 2021 , 22, 810-848	4

- 146 Local Structure Engineering in Lanthanide-Doped Nanocrystals for Tunable Upconversion Emissions. **2021**, 7
- 145 Near-Infrared Light Responsive TiO₂ for Efficient Solar Energy Utilization. **2022**, 32, 2108977 9
- 144 Upconversion luminescence in lanthanide-doped nanoparticles. **2022**,
- 143 Upconversion nanoparticles: Recent strategies and mechanism based applications. **2022**, 1
- 142 Photon Upconversion Systems Based on Triplet-Triplet Annihilation as Photosensitizers for Chemical Transformations.. **2022**, 380, 23 1
- 141 Upconverting Nanoparticles in Pollutant Degradation and Hydrogen Generation. **2022**, 449-491
- 140 Mechanisms of Luminescence in Lanthanide Complexes: A Crucial Role of Metal-Ligand Covalency.. **2022**, 1
- 139 Synthesis Protocol of Upconversion Nanoparticles. **2022**, 31-65
- 138 Introduction to Upconversion and Upconverting Nanoparticles. **2022**, 1-30
- 137 Frequency Upconversion in UCNPs Containing Rare-Earth Ions. **2022**, 171-219
- 136 Smart Upconverting Nanoparticles and New Types of Upconverting Nanoparticles. **2022**, 221-239
- 135 Table_1.DOCX. **2019**,
- 134 Data_Sheet_1.PDF. **2020**,
- 133 Table1.DOCX. **2018**,
- 132 Photoluminescence and mechanoluminescence properties of $\text{K}_{1-x}\text{Na}_x\text{NbO}_3$; Pr_{3+} ferroelectric. **2022**,
- 131 Improving the functionality of a nanomaterial by biological probes. **2022**, 379-418 0
- 130 New Generation of Photosensitizers Based on Inorganic Nanomaterials.. **2022**, 2451, 213-244 1
- 129 Advanced optical properties of upconversion nanoparticles. **2022**,

- 128 Biological Activities and Biocompatibility Properties of Eu(OH) and Tb(OH) Nanorods: Evaluation for Wound Healing Applications.. **2022**, 1
- 127 Effect of Citric Acid Amount in the Synthesis of LiGa5O8:Cr3+ Nano-Phosphor. **2022**, 96, S139-S144
- 126 Blue LED-pumped intense short-wave infrared luminescence based on Cr-Yb-co-doped phosphors.. **2022**, 11, 136 14
- 125 Controlling the Energy-Transfer Processes in a Nanosized Molecular Upconverter to Tap into Luminescence Thermometry Application.. **2022**, 1
- 124 Controlling the Energy-Transfer Processes in a Nanosized Molecular Upconverter to Tap into Luminescence Thermometry Application.
- 123 Yb/Er: Cs2Ag(In/Bi)Cl6 lead-free double perovskite for dual-modal optical temperature sensing. **2022**, 118996 1
- 122 Electrochemical, photoluminescence and intensity parameters of LaOCl: Dy3+ for sensors and white light-emitting diode applications. **2022**, 9, 100253 0
- 121 Effect of Ca2+ doping on the upconversion luminescence properties of NaYF4:Yb3+/Tm3+ nanoparticles and its application to fluorescence temperature characteristics. 1
- 120 Hydrothermal Synthesis of Anisotropic Srge4o9:Yb3+/Er3+ Nanorods and Optimized Upconversion Luminescence for Fir Temperature Sensing.
- 119 An Efficient Construction Model of Multi-Fluorescence Morphologies in Oxyfluoride Matrix.
- 118 Chirp-dependent dual light emission in Na0.95Er0.05Nb0.9Ti0.1O3 perovskite. **2022**, 129, 112500
- 117 Tailored Computational Approaches to Interrogate Heavy Element Chemistry and Structure in Condensed Phase. 219-245
- 116 Near Infrared Light Active Lanthanide-Doped Upconversion Nanoparticles: Recent Advances and Applications. **2022**, 339-362 1
- 115 On the concentration dependence of the up-conversion process of Pr3+ doped Li2CaSiO4. **2022**,
- 114 Designing Er3+ Single-Doped Ternary Sulfide for Highly Efficient Upconversion Luminescence Under 1550 Nm Excitation.
- 113 Synthesis of near-infrared-responsive hexagonal-phase upconversion nanoparticles with controllable shape and luminescence efficiency for theranostic applications. 088532822211084 2
- 112 Recent advances in microwave synthesis for photoluminescence and photocatalysis. **2022**, 103890 1
- 111 Inorganic nanoparticles to overcome efficiency inhibitors of organic photovoltaics: An in-depth review. **2022**, 166, 112661 1

- 110 Applications of nanocomposites based on zeolitic imidazolate framework-8 in photodynamic and synergistic anti-tumor therapy. **2022**, 12, 16927-16941 1
- 109 Upconversion luminescence behavior of rare-earth-activated phosphors. **2022**, 291-308
- 108 Nanocomposites based on lanthanide-doped upconversion nanoparticles: diverse designs and applications. **2022**, 11, 4
- 107 Engineering upconverting core-shell nano-probe for spectral responsive fluid velocimetry.
- 106 Core-shell NaYF₄:Yb³⁺/Tm³⁺@NaGdF₄:Ce³⁺/Eu³⁺ Nanoparticles for Upconversion and Downconversion Dual-Mode Fluorescence-Based Temperature Sensing. 1
- 105 Highly selective and sensitive optosensing of glutathione based on energy level strongly correlated upconversion nanoprobe. **2022**, 369, 132355
- 104 Impact of Sc³⁺-Modified Local Site Symmetries on Er³⁺ Ion Upconversion Luminescence in Y₂O₃ Nanoparticles. **2022**, 126, 11715-11722 0
- 103 Temperature Sensing and Anti-Counterfeiting Application Based on La₂MgGeO₆: Bi³⁺, Er³⁺ Phosphor.
- 102 Dopant ion concentration-dependent upconversion luminescence of cubic SrF₂:Yb³⁺,Er³⁺ nanocrystals prepared by a fluorolytic sol-gel method. **2022**, 14, 11590-11599 0
- 101 Recent Advances in the Photoreactions Triggered by Porphyrin-Based Triplet-Triplet Annihilation Upconversion Systems: Molecular Innovations and Nanoarchitectonics. **2022**, 23, 8041 2
- 100 Effect of irradiation time on characteristics of Gd₂O₃:Er,Yb NPs by laser ablation in liquid. **2022**, 128,
- 99 Regulative control and enhancement of multi-color upconversion luminescence with DBR cavities. **2022**, 55, 405104 0
- 98 NaBiF₄-based hollow upconversion nanoparticles for temperature sensing. **2022**, 11,
- 97 Photoemission of the Upconverted Hot Electrons in Mn-Doped CsPbBr₃ Nanocrystals. **2022**, 22, 6753-6759 2
- 96 Binary Ligand-Mediated Photochromic Tuning of Lanthanide-Doped Upconversion Nanoparticle Conjugates. 2201354
- 95 Tunable Multicolor Fluorescence of Perovskite-Based Composites for Optical Steganography and Light-Emitting Devices. **2022**, 2022, 1-11 1
- 94 450-nm Photon-Pumped Ultraviolet-C Luminescence for Multifunctional Applications. 2200389 0
- 93 Structural, morphological and optoelectronic aspects of YAlO₃:Dy³⁺ doped nanocrystalline materials for NUV energized WLEDs. **2022**, 43, 78-89 2

92	Lattice-strain induced photophysical properties of NaYF ₄ : Yb ³⁺ , Tm ³⁺ upconverting phosphors. 2022 , 251, 119249	0
91	Li ⁺ aided self-activated Ca ₉ Y ₁₀ F ₃₂ . 2022 , 133, 112925	0
90	Highly sensitive and near-infrared excitable optical thermometer based on CaGdAl ₃ O ₇ : Tm ³⁺ , Yb ³⁺ , Zn ²⁺ . 2022 , 929, 167240	1
89	Intense green photoluminescence and upconversion-based intrinsic optical bistability in Ho ³⁺ /Yb ³⁺ codoped CaSc ₂ O ₄ and upconversion in Ho ³⁺ /Yb ³⁺ codoped CaY ₂ O ₄ phosphors. 2022 , 252, 119261	1
88	Fluorescence-based aptasensors for small molecular food contaminants: From energy transfer to optical polarization. 2023 , 285, 121872	0
87	Lanthanide-doped upconversion nanomaterials. 2022 ,	0
86	Hydrothermal synthesis of anisotropic SrGe ₄ O ₉ :Yb ³⁺ /Er ³⁺ nanorods and optimized upconversion luminescence for optical temperature sensing.	0
85	Locally-ordered A-site vacancy assisted photoluminescence enhancement in simply rare-earth doped perovskite oxide.	0
84	Unravelling the benefits of transition-metal-co-doping in lanthanide upconversion nanoparticles. 2022 , 51, 6893-6908	5
83	Giant and reversible photoluminescence modulation based on in situ electric-field-controlled antiferroelectric/ferroelectric phase transition.	0
82	Up-conversion luminescence properties and temperature sensitivity of AgBi(MoO ₄) ₂ :Yb ³⁺ /Er ³⁺ /Ho ³⁺ /Tm ³⁺ phosphors. 2022 , 24, 6001-6008	0
81	Influence of Mn ²⁺ ions on the structure and spectral properties of BaY ₂ F ₈ : Yb ³⁺ /Ho ³⁺ phosphors. 2022 , 33, 21148-21160	0
80	Rietveld refinement, luminescence and catalytic study of as-synthesized and Dy ³⁺ -doped cubic Y ₂ O ₃ nanopowder prepared by citrate mediated sol-gel technique. 2022 , 24,	0
79	Recent Advances and Challenges in Light Conversion Phosphor Materials for Third-Generation Quantum-Dot-Sensitized Photovoltaics.	0
78	Recent Development in Sensitizers for Lanthanide-Doped Upconversion Luminescence.	4
77	Erbium doped gadolinium oxyorthosilicate powder for optical thermometry at the visible and near-infrared. 2022 , 252, 119365	1
76	An overview of boosting lanthanide upconversion luminescence through chemical methods and physical strategies.	0
75	An ultrasensitive NIR-IIa fluorescence-based multiplex immunochromatographic strip test platform for antibiotic residues detection in milk samples. 2022 ,	0

74	Tuning Near-Infrared-to-Ultraviolet Upconversion in Lanthanide-Doped Nanoparticles for Biomedical Applications. 2201716	1
73	Synthesis and Upconversion Luminescence Properties of BaBiO ₂ Cl:Yb ³⁺ ,Er ³⁺ Phosphor. 2022 , 12, 1465	1
72	Upconversion Fluorescent Tuning Based on CdS and SiO ₂ Photonic Crystals for Computer Chip Label. 2022 , 100314	0
71	Upconversion Nanoparticles for Cancer Therapy. 2200092	0
70	Synthesis of LiErF ₄ and LiGdF ₄ Core-Shell Nanocrystals and Tunable Upconversion Emission from Red to Green. 2022 , 7,	0
69	Control and enhancement of upconversion luminescence of NaYF ₄ :Yb,Er nanoparticles with multiplet independent resonance modes in multiplexed metal gratings. 2022 , 119487	0
68	Towards highly efficient NIR II response up-conversion phosphor enabled by long lifetimes of Er ³⁺ . 2022 , 13,	0
67	Influence of TiO ₂ Space layer on plasmon enhanced Luminescence of Ag/TiO ₂ /NaGdF ₄ :Er ³⁺ /Yb ³⁺ /Al ³⁺ composite Films. 1-7	0
66	Dual-functions of non-contact optical thermometry and anti-counterfeiting based on La ₂ MgGeO ₆ : Bi ³⁺ , Er ³⁺ phosphors. 2022 , 252, 119404	1
65	Structure and upconversion luminescence properties of Pr ³⁺ -doped Y ₂ Si ₂ O ₇ phosphor prepared by different methods. 2022 , 134, 113191	0
64	A NIR light gated targeting nanoprobe based on DNA-modified upconversion nanoparticles with antifouling properties for ratiometric detection and imaging of microRNA-21. 2022 , 1235, 340554	0
63	Preparation and up-conversion luminescence of three-dimensional Er ³⁺ /Yb ³⁺ co-doped AlN nanowire networks. 2023 , 153, 107186	0
62	Ultraviolet Radiation Sources. 2022 , 105-133	0
61	Tracing Local Disorder in Near-Infrared-Upconverting Crystals of Li ⁺ -Doped Gd ₂ O ₃ through the Gd(III)-O Bond Distance.	0
60	Ferroelectric, dielectric, and photoluminescence properties of (Bi _{0.5} Na _{0.5}) _{0.935} Ba _{0.065} (Zn _{1/3} Nb _{2/3}) _x Ti _(1-x) O ₃ -0.005Er multifunctional ceramics.	0
59	Efficient Near-Infrared Response Antibacterial Ceramics Based on the Method of Facile In Situ Etching Upconversion Glass-Ceramics.	0
58	Low-cost in-situ luminescence: Opportunities for MOFs water vapor sensing. 2022 , 33, 104899	0
57	A Comprehensive Review on Upconversion Nanomaterials-Based Fluorescent Sensor for Environment, Biology, Food and Medicine Applications. 2022 , 12, 1036	2

- 56 Nanoparticles for super-resolution microscopy: intracellular delivery and molecular targeting. **2022**, 51, 9882-9916 1
- 55 Enhanced red emission of doped lanthanide ions in Gd₂O₃: In the perspective of phase transformation. **2023**, 135, 113252 o
- 54 Design of sodium lanthanide fluoride nanocrystals for NIR imaging and targeted therapy. **2023**, 27, 101335 o
- 53 Reaction mechanism of nanomedicine based on porphyrin skeleton and its application prospects. **2023**, 41, 103236 o
- 52 Enhancing red upconversion emission in NaErF₄@NaYF₄ core-shell nanoparticles by introducing Yb³⁺ ions as energy trapping centers. **2023**, 936, 168371 o
- 51 Lanthanide-Based Nanoprobes for Time-Resolved Luminescence Imaging on Various Ions and Molecules. 1075, 9-17 o
- 50 ENGINEERING THE NaYF₄:Yb³⁺/Tm³⁺ UPCONVERSION NANOPARTICLE LUMINESCENCE ENERGY TRANSFER FOR A RATIOMETRIC pH INDICATOR. 71-82 o
- 49 One-pot synthesis of hexagonal NaLuF₄:Yb,Er microcrystals with enhanced upconversion emission and high production yield. **2022**, o
- 48 The Coming of Age of Neodymium: Redefining Its Role in Rare Earth Doped Nanoparticles. o
- 47 Enhanced bright green luminescence from GdOF: Ho³⁺ up-conversion phosphor via Yb³⁺ doping. **2022**, o
- 46 Doping induced morphology, crystal structure, and upconversion luminescence evolution: from Na₃ScF₆:Yb/Er/Y to NaYF₄:Yb/Er/Sc nanocrystals. o
- 45 The Predicted Model of the Sensory Quality of Refrigerated Tilapia Skin Established Based on Characteristic Near-Infrared Spectrum. 1-10 o
- 44 Norm-Conserving 4f-in-Core Pseudopotentials and Basis Sets Optimized for Trivalent Lanthanides (Ln = CeLu). 1
- 43 Upconversion nanoparticles (UCNPs): Synthesis methods, imaging and cancer therapy. **2023**, 104175 o
- 42 Lanthanide-Doped Upconversion Nanoparticles: Exploring A Treasure Trove of NIR-Mediated Emerging Applications. **2023**, 15, 2499-2528 o
- 41 Recent Progress in Inorganic Afterglow Materials: Mechanisms, Persistent Luminescent Properties, Modulating Methods, and Bioimaging Applications. 2202382 o
- 40 Blue-light-excitable pure and efficient short-wave infrared luminescence via Cr³⁺-Yb³⁺ energy transfer in KYbP₂O₇:Cr³⁺ phosphor. o
- 39 Synthesis and luminescence properties of Er³⁺-Yb³⁺ doped glass ceramics with tridymite structure. **2023**, 136, 113434 o

- 38 Dual-tuning upconversion luminescence based on perfectly absorbed nanocavities under triple NIR excitation. **2023**, 938, 168534 ○
- 37 An efficient construction model of multi-fluorescence morphologies in oxyfluoride matrix. **2023**, 257, 119667 ○
- 36 NaYF₄:Yb³⁺/Tm³⁺@NaYF₄:Yb³⁺ Upconversion Nanoparticles for Optical Temperature Monitoring and Self-Heating in Photothermal Therapy. **2023**, 6, 759-771 ○
- 35 Amplified Fenton-Based Oxidative Stress Utilizing Ultraviolet Upconversion Luminescence-Fueled Nanoreactors for Apoptosis-Strengthened Ferroptosis Anticancer Therapy. **2023**, 17, 382-401 ○
- 34 Boosting Photo Upconversion in Electropolymerised Thin Film with Yb/Er Complexes. 2202550 ○
- 33 Research Progress on Up-Conversion Fluorescence Probe for Detection of Perfluorooctanoic Acid in Water Treatment. **2023**, 15, 605 1
- 32 Nanocomposite-based functional materials: Synthesis, properties, and applications. **2023**, 317-365 ○
- 31 Fluorescent inorganic nanoparticles for bioimaging and therapeutic applications. **2023**, 45-71 ○
- 30 Metallic nanoparticles for theranostic application. **2023**, 351-387 ○
- 29 Multi-stimuli-responsive and dynamic color tunable security ink for multilevel anticounterfeiting. **2023**, 11, 025001 ○
- 28 Recent advances in plasmon-enhanced luminescence for biosensing and bioimaging. **2023**, 1254, 341086 ○
- 27 Strong luminescence intensity and high temperature sensitivity of Er³⁺-doped KYb(MoO₄)₂ phosphors optimized by codoping trivalent ions. **2023**, 257, 119747 ○
- 26 Fabrication and properties of highly transparent Er₂O₃ ceramics with ZrO₂ additive by vacuum sintering. **2023**, 49, 16494-16498 ○
- 25 Multiplet Resonance control and enhancement of upconversion luminescence of NaYF₄:Yb,Er nanoparticles in grating-incorporated Metal DBR cavities. **2023**, 258, 119823 ○
- 24 Temperature sensing properties of upconverted-emission materials based on a fluoroindate glass matrix. **2023**, 114367 ○
- 23 Surface engineering of full-spectrum sunlight-driven CdS/NaYF₄: Yb, Er for boosting photocatalytic CO₂ reduction reaction. **2023**, 163, 112232 ○
- 22 The local structure and electronic properties of Ho³⁺-doped BaY₂F₈: A first-principles method. **2023**, 298, 127459 ○
- 21 Single-Crystal Terbium Silicate Chloride Core-Shell Nanowires and Nanotubes for Monolithically Integrated Optoelectronics. **2023**, 6, 2963-2971 ○

- 20 Introduction to properties of aluminates and its scope. **2023**, 1-20 ○
- 19 The impact of pure and mixed self-activated YXO₄ phosphor materials (X=V, Nb and Ta) on downshifting and quantum cutting emission behaviours of Ln³⁺ doped (Ln³⁺=Ho³⁺ and Yb³⁺) ions. **2023**, 49, 17383-17395 ○
- 18 Plasmon Modulated Upconversion Biosensors. **2023**, 13, 306 ○
- 17 Radiolabeled nanomaterial for cancer diagnostics and therapeutics: principles and concepts. **2023**, 14, ○
- 16 Laser Pyrolysis Synthesis of Upconverting Lanthanide-Doped NaYF₄ Nanocrystals for Anticounterfeiting Applications. **2023**, 6, 3704-3717 ○
- 15 Shape-controlled synthesis of LiLuF₄:15Tb particles by adjusting surface citric acid content. **2023**, 138, 113616 ○
- 14 Recent progress of rare earth doped upconversion nanoparticles. **2023**, ○
- 13 Wavelength-Dependent Metal-Enhanced Fluorescence Biosensors via Resonance Energy Transfer Modulation. **2023**, 13, 376 ○
- 12 CaGdF₅ based heterogeneous core@shell upconversion nanoparticles for sensitive temperature measurement. **2023**, 13, 8535-8539 ○
- 11 Enhanced thermometry sensitivity in upconversion nanoparticles via near-field manipulation. **2023**, ○
- 10 Electrodeposited NaYF₄:Yb³⁺, Er³⁺ up-conversion films for flexible neural device construction and near-infrared optogenetics. ○
- 9 Unraveling the Growth Process of CoreShell Structured Upconversion Nanoparticles: Implications for Color Tuning of Upconversion Luminescence. **2023**, 6, 6398-6406 ○
- 8 Periodic mesoporous organosilica based sensor for broad range mercury detection by simultaneous downshifting/upconversion luminescence. ○
- 7 Nanostructures used in cancer imaging. **2023**, 169-191 ○
- 6 Photocleavable Ortho-Nitrobenzyl-Protected DNA Architectures and Their Applications. ○
- 5 NanoBio interactions of upconversion nanoparticles at subcellular level: biodistribution and cytotoxicity. ○
- 4 Ceramics phosphor powders. **2023**, 395-429 ○
- 3 Luminescent glass-ceramics and applications. **2023**, 431-462 ○

- 2 Enhancing the temperature sensing property of a $\text{Ca}_{0.79}\text{Bi}_{0.01}\text{Er}_{0.01}\text{Yb}_{0.2}\text{MoO}_4$ phosphor via local symmetry distortion and reduction in non-radiative channels. **2023**, 13, 14991-15000 ○
- 1 Extraordinary upconversion enhancement in mono-dispersed plasmonic resonant nanocavity coupling with lanthanide doped upconversion nanoparticles. **2023**, 129599 ○