

John-Christopher Boyer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11567463/publications.pdf>

Version: 2024-02-01

31
papers

7,083
citations

218381

26
h-index

414034

32
g-index

34
all docs

34
docs citations

34
times ranked

6556
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Colloidal Upconverting NaYF ₄ Nanocrystals Doped with Er ³⁺ , Yb ³⁺ and Tm ³⁺ , Yb ³⁺ via Thermal Decomposition of Lanthanide Trifluoroacetate Precursors. <i>Journal of the American Chemical Society</i> , 2006, 128, 7444-7445.	6.6	978
2	Absolute quantum yield measurements of colloidal NaYF ₄ : Er ³⁺ , Yb ³⁺ upconverting nanoparticles. <i>Nanoscale</i> , 2010, 2, 1417.	2.8	785
3	Synthesis of Colloidal Upconverting NaYF ₄ : Er ³⁺ /Yb ³⁺ and Tm ³⁺ /Yb ³⁺ Monodisperse Nanocrystals. <i>Nano Letters</i> , 2007, 7, 847-852.	4.5	693
4	Significance of Yb ³⁺ concentration on the upconversion mechanisms in codoped Y ₂ O ₃ :Er ³⁺ , Yb ³⁺ nanocrystals. <i>Journal of Applied Physics</i> , 2004, 96, 661-667.	1.1	514
5	Near-Infrared Light-Triggered Dissociation of Block Copolymer Micelles Using Upconverting Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 19714-19717.	6.6	428
6	Surface Modification of Upconverting NaYF ₄ Nanoparticles with PEG-Phosphate Ligands for NIR (800 nm) Biolabeling within the Biological Window. <i>Langmuir</i> , 2010, 26, 1157-1164.	1.6	418
7	Near Infrared Light Triggered Release of Biomacromolecules from Hydrogels Loaded with Upconversion Nanoparticles. <i>Journal of the American Chemical Society</i> , 2012, 134, 16558-16561.	6.6	388
8	Two-Way Photoswitching Using One Type of Near-Infrared Light, Upconverting Nanoparticles, and Changing Only the Light Intensity. <i>Journal of the American Chemical Society</i> , 2010, 132, 15766-15772.	6.6	293
9	Concentration-Dependent Near-Infrared to Visible Upconversion in Nanocrystalline and Bulk Y ₂ O ₃ :Er ³⁺ . <i>Chemistry of Materials</i> , 2003, 15, 2737-2743.	3.2	290
10	Hard Proof of the NaYF ₄ /NaGdF ₄ Nanocrystal Core/Shell Structure. <i>Journal of the American Chemical Society</i> , 2009, 131, 14644-14645.	6.6	247
11	Remote-Control Photoswitching Using NIR Light. <i>Journal of the American Chemical Society</i> , 2009, 131, 10838-10839.	6.6	216
12	Remote-Control Photorelease of Caged Compounds Using Near-Infrared Light and Upconverting Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3782-3785.	7.2	206
13	Facile ligand-exchange with polyvinylpyrrolidone and subsequent silica coating of hydrophobic upconverting [Yb ³⁺ /Er ³⁺]-NaYF ₄ nanoparticles. <i>Nanoscale</i> , 2010, 2, 771.	2.8	189
14	A Spectroscopic Analysis of Blue and Ultraviolet Upconverted Emissions from Gd ₃ Ga ₅ O ₁₂ :Tm ³⁺ , Yb ³⁺ Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17400-17405.	1.2	177
15	980 nm excited upconversion in an Er-doped ZnO/TeO ₂ glass. <i>Applied Physics Letters</i> , 2002, 80, 1752-1754.	1.5	167
16	Synthesis, Characterization, and Spectroscopy of NaGdF ₄ : Ce ³⁺ , Tb ³⁺ /NaYF ₄ Core/Shell Nanoparticles. <i>Chemistry of Materials</i> , 2007, 19, 3358-3360.	3.2	153
17	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. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19054-19064.	1.5	146
18	Analysis of the Shell Thickness Distribution on NaYF ₄ /NaGdF ₄ Core/Shell Nanocrystals by EELS and EDS. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 185-189.	2.1	121

#	ARTICLE	IF	CITATIONS
19	Highly Photoluminescent PbS Nanocrystals: The Beneficial Effect of Trioctylphosphine. <i>Chemistry of Materials</i> , 2008, 20, 3794-3796.	3.2	101
20	A spectroscopic investigation of trivalent lanthanide doped Y ₂ O ₃ nanocrystals. <i>Nanotechnology</i> , 2004, 15, 75-81.	1.3	92
21	Photomodulation of Fluorescent Upconverting Nanoparticle Markers in Live Organisms by Using Molecular Switches. <i>Chemistry - A European Journal</i> , 2012, 18, 3122-3126.	1.7	64
22	Luminescence Spectroscopy and Near-Infrared to Visible Upconversion of Nanocrystalline Gd ₃ Ga ₅ O ₁₂ :Er ³⁺ . <i>Journal of Physical Chemistry B</i> , 2003, 107, 10747-10752.	1.2	60
23	A "Plug-and-Play" Method to Prepare Water-Soluble Photoresponsive Encapsulated Upconverting Nanoparticles Containing Hydrophobic Molecular Switches. <i>Chemistry of Materials</i> , 2013, 25, 2495-2502.	3.2	51
24	Up-conversion of 980 nm light into white light from sol-gel derived thin film made with new combinations of LaF ₃ :Ln ³⁺ nanoparticles. <i>Journal of Materials Chemistry</i> , 2009, 19, 2392.	6.7	40
25	A UV-Blocking Polymer Shell Prevents One-Photon Photoreactions while Allowing Multi-Photon Processes in Encapsulated Upconverting Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11106-11109.	7.2	29
26	Multimodal fluorescence modulation using molecular photoswitches and upconverting nanoparticles. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6159.	1.5	22
27	Wet chemical synthesis and luminescence properties of erbium-doped nanocrystalline yttrium oxide. <i>Journal of Materials Research</i> , 2004, 19, 3398-3407.	1.2	16
28	Structural Investigation and Anti-Stokes Emission of Scandium Oxide Nanocrystals Activated with Trivalent Erbium. <i>Journal of the Electrochemical Society</i> , 2005, 152, H19.	1.3	12
29	Direct Photolithographic Deposition of Color-Coded Anti-Counterfeit Patterns with Titania Encapsulated Upconverting Nanoparticles. <i>Advanced Optical Materials</i> , 2020, 8, 2000664.	3.6	12
30	Concentration-Dependent Near-Infrared to Visible Upconversion in Nanocrystalline and Bulk Y ₂ O ₃ :Er ³⁺ . <i>ChemInform</i> , 2003, 34, no.	0.1	0
31	Are upconverting Ln ³⁺ -based nanoparticles any good for deep tissue imaging with retention of optical sectioning?. , 2012, , .		0