

# John-Christopher Boyer

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/11567463/john-christopher-boyer-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

31  
papers

6,420  
citations

26  
h-index

34  
g-index

34  
ext. papers

6,740  
ext. citations

8.4  
avg, IF

5.89  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 31 | Synthesis of colloidal upconverting NaYF <sub>4</sub> nanocrystals doped with Er <sup>3+</sup> , Yb <sup>3+</sup> and Tm <sup>3+</sup> , Yb <sup>3+</sup> via thermal decomposition of lanthanide trifluoroacetate precursors. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 7444-5 | 16.4 | 899       |
| 30 | Absolute quantum yield measurements of colloidal NaYF <sub>4</sub> : Er <sup>3+</sup> , Yb <sup>3+</sup> upconverting nanoparticles. <i>Nanoscale</i> , <b>2010</b> , 2, 1417-9  | 7.7  | 720       |
| 29 | Synthesis of colloidal upconverting NaYF <sub>4</sub> : Er <sup>3+</sup> /Yb <sup>3+</sup> and Tm <sup>3+</sup> /Yb <sup>3+</sup> monodisperse nanocrystals. <i>Nano Letters</i> , <b>2007</b> , 7, 847-52   | 11.5 | 653       |
| 28 | Significance of Yb <sup>3+</sup> concentration on the upconversion mechanisms in codoped Y <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> nanocrystals. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 661-667  | 2.5  | 468       |
| 27 | Near-infrared light-triggered dissociation of block copolymer micelles using upconverting nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 19714-7  | 16.4 | 401       |
| 26 | Surface modification of upconverting NaYF <sub>4</sub> nanoparticles with PEG-phosphate ligands for NIR (800 nm) biolabeling within the biological window. <i>Langmuir</i> , <b>2010</b> , 26, 1157-64   | 4    | 389       |
| 25 | Near infrared light triggered release of biomacromolecules from hydrogels loaded with upconversion nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 16558-61  | 16.4 | 352       |
| 24 | Concentration-Dependent Near-Infrared to Visible Upconversion in Nanocrystalline and Bulk Y <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> . <i>Chemistry of Materials</i> , <b>2003</b> , 15, 2737-2743  | 9.6  | 265       |
| 23 | 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> , <b>2010</b> , 132, 15766-72   | 16.4 | 255       |
| 22 | Hard proof of the NaYF <sub>4</sub> /NaGdF <sub>4</sub> nanocrystal core/shell structure. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 14644-5   | 16.4 | 226       |
| 21 | Remote-control photorelease of caged compounds using near-infrared light and upconverting nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3782-5   | 16.4 | 201       |
| 20 | Remote-control photoswitching using NIR light. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10838-9  | 16.4 | 188       |
| 19 | Facile ligand-exchange with polyvinylpyrrolidone and subsequent silica coating of hydrophobic upconverting beta-NaYF <sub>4</sub> :Yb(3+)/Er(3+) nanoparticles. <i>Nanoscale</i> , <b>2010</b> , 2, 771-7  | 7.7  | 167       |
| 18 | 980 nm excited upconversion in an Er-doped ZnO:TeO <sub>2</sub> glass. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1752-1754  | 3.4  | 161       |
| 17 | A spectroscopic analysis of blue and ultraviolet upconverted emissions from Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Tm <sup>3+</sup> , Yb <sup>3+</sup> nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17400-5   | 3.4  | 160       |
| 16 | Synthesis, Characterization, and Spectroscopy of NaGdF <sub>4</sub> : Ce <sup>3+</sup> , Tb <sup>3+</sup> /NaYF <sub>4</sub> Core/Shell Nanoparticles. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3358-3360   | 9.6  | 147       |
| 15 | Two-Photon Upconversion Laser (Scanning and Wide-Field) Microscopy Using Ln <sup>3+</sup> -Doped NaYF <sub>4</sub> Upconverting Nanocrystals: A Critical Evaluation of their Performance and Potential in Bioimaging. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19054-19064              | 3.8  | 134       |

|    |  |      |     |
|----|--|------|-----|
| 14 | Analysis of the Shell Thickness Distribution on NaYF <sub>4</sub> /NaGdF <sub>4</sub> Core/Shell Nanocrystals by EELS and EDS. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 185-189                             | 6.4  | 114 |
| 13 | Highly Photoluminescent PbS Nanocrystals: The Beneficial Effect of Trioctylphosphine. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3794-3796  | 9.6  | 96  |
| 12 | A spectroscopic investigation of trivalent lanthanide doped Y <sub>2</sub> O <sub>3</sub> nanocrystals. <i>Nanotechnology</i> , <b>2004</b> , 15, 75-81  | 3.4  | 90  |
| 11 | Photomodulation of fluorescent upconverting nanoparticle markers in live organisms by using molecular switches. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 3122-6   | 4.8  | 61  |
| 10 | Luminescence Spectroscopy and Near-Infrared to Visible Upconversion of Nanocrystalline Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Er <sup>3+</sup> . <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 10747-10752 | 3.4  | 54  |
| 9  | Remote-Control Photorelease of Caged Compounds Using Near-Infrared Light and Upconverting Nanoparticles. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 3870-3873   | 3.6  | 49  |
| 8  | A Plug-and-Play Method to Prepare Water-Soluble Photoresponsive Encapsulated Upconverting Nanoparticles Containing Hydrophobic Molecular Switches. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2495-2502                     | 9.6  | 46  |
| 7  | Up-conversion of 980 nm light into white light from sol-gel derived thin film made with new combinations of LaF <sub>3</sub> :Ln <sup>3+</sup> nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2392       |      | 38  |
| 6  | A UV-blocking polymer shell prevents one-photon photoreactions while allowing multi-photon processes in encapsulated upconverting nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11106-9      | 16.4 | 28  |
| 5  | Multimodal fluorescence modulation using molecular photoswitches and upconverting nanoparticles. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 6159-68   | 3.9  | 20  |
| 4  | Wet chemical synthesis and luminescence properties of erbium-doped nanocrystalline yttrium oxide. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 3398-3407   | 2.5  | 16  |
| 3  | Structural Investigation and Anti-Stokes Emission of Scandium Oxide Nanocrystals Activated with Trivalent Erbium. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, H19   | 3.9  | 10  |
| 2  | A UV-Blocking Polymer Shell Prevents One-Photon Photoreactions while Allowing Multi-Photon Processes in Encapsulated Upconverting Nanoparticles. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11312-11315                         | 3.6  | 6   |
| 1  | Direct Photolithographic Deposition of Color-Coded Anti-Counterfeit Patterns with Titania Encapsulated Upconverting Nanoparticles. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000664                                    | 8.1  | 5   |