

John-Christopher Boyer

List of Publications by Year in Descending Order

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

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	Direct Photolithographic Deposition of Color-Coded Anti-Counterfeit Patterns with Titania Encapsulated Upconverting Nanoparticles. <i>Advanced Optical Materials</i> , 2020 , 8, 2000664	8.1	5
30	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	9.6	46
29	A UV-Blocking Polymer Shell Prevents One-Photon Photoreactions while Allowing Multi-Photon Processes in Encapsulated Upconverting Nanoparticles. <i>Angewandte Chemie</i> , 2013 , 125, 11312-11315	3.6	6
28	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, 11106-9	16.4	28
27	Photomodulation of fluorescent upconverting nanoparticle markers in live organisms by using molecular switches. <i>Chemistry - A European Journal</i> , 2012 , 18, 3122-6	4.8	61
26	Near infrared light triggered release of biomacromolecules from hydrogels loaded with upconversion nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16558-61	16.4	352
25	Multimodal fluorescence modulation using molecular photoswitches and upconverting nanoparticles. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 6159-68	3.9	20
24	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	6.4	114
23	Near-infrared light-triggered dissociation of block copolymer micelles using upconverting nanoparticles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19714-7	16.4	401
22	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	3.8	134
21	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, 15766-72	16.4	255
20	Absolute quantum yield measurements of colloidal NaYF ₄ : Er ³⁺ , Yb ³⁺ upconverting nanoparticles. <i>Nanoscale</i> , 2010 , 2, 1417-9	7.7	720
19	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, 1157-64	4	389
18	Facile ligand-exchange with polyvinylpyrrolidone and subsequent silica coating of hydrophobic upconverting beta-NaYF(4):Yb(3+)/Er(3+) nanoparticles. <i>Nanoscale</i> , 2010 , 2, 771-7	7.7	167
17	Remote-Control Photorelease of Caged Compounds Using Near-Infrared Light and Upconverting Nanoparticles. <i>Angewandte Chemie</i> , 2010 , 122, 3870-3873	3.6	49
16	Remote-control photorelease of caged compounds using near-infrared light and upconverting nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3782-5	16.4	201
15	Remote-control photoswitching using NIR light. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10838-9	16.4	188

14	Hard proof of the NaYF ₄ /NaGdF ₄ nanocrystal core/shell structure. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14644-5	16.4	226
13	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		38
12	Highly Photoluminescent PbS Nanocrystals: The Beneficial Effect of Trioctylphosphine. <i>Chemistry of Materials</i> , 2008 , 20, 3794-3796	9.6	96
11	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	9.6	147
10	Synthesis of colloidal upconverting NaYF ₄ : Er ³⁺ /Yb ³⁺ and Tm ³⁺ /Yb ³⁺ monodisperse nanocrystals. <i>Nano Letters</i> , 2007 , 7, 847-52	11.5	653
9	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, 7444-5	16.4	899
8	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, 17400-5	3.4	160
7	Structural Investigation and Anti-Stokes Emission of Scandium Oxide Nanocrystals Activated with Trivalent Erbium. <i>Journal of the Electrochemical Society</i> , 2005 , 152, H19	3.9	10
6	Wet chemical synthesis and luminescence properties of erbium-doped nanocrystalline yttrium oxide. <i>Journal of Materials Research</i> , 2004 , 19, 3398-3407	2.5	16
5	A spectroscopic investigation of trivalent lanthanide doped Y ₂ O ₃ nanocrystals. <i>Nanotechnology</i> , 2004 , 15, 75-81	3.4	90
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	2.5	468
3	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	3.4	54
2	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	9.6	265
1	980 nm excited upconversion in an Er-doped ZnO:TeO ₂ glass. <i>Applied Physics Letters</i> , 2002 , 80, 1752-1754	3.4	161