Benoit Dubertret

List of Publications by Year
in descending order

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22 papers	6,423 citations	393982 19 h-index	676716 22 g-index
22 all docs	22 docs citations	22 times ranked	8202 citing authors

#	Article	IF	Citations
1	In Vivo Imaging of Quantum Dots Encapsulated in Phospholipid Micelles. Science, 2002, 298, 1759-1762.	6.0	2,961
2	Single-mismatch detection using gold-quenched fluorescent oligonucleotides. Nature Biotechnology, 2001, 19, 365-370.	9.4	1,204
3	Quasi 2D Colloidal CdSe Platelets with Thicknesses Controlled at the Atomic Level. Journal of the American Chemical Society, 2008, 130, 16504-16505.	6.6	662
4	Two-Dimensional Colloidal Nanocrystals. Chemical Reviews, 2016, 116, 10934-10982.	23.0	412
5	Small and Stable Sulfobetaine Zwitterionic Quantum Dots for Functional Live-Cell Imaging. Journal of the American Chemical Society, 2010, 132, 4556-4557.	6.6	223
6	Synthesis, encapsulation, purification and coupling of single quantum dots in phospholipid micelles for their use in cellular and in vivo imaging. Nature Protocols, 2007, 2, 2383-2390.	5.5	155
7	Highly Enhanced Affinity of Multidentate versus Bidentate Zwitterionic Ligands for Long-Term Quantum Dot Bioimaging. Langmuir, 2012, 28, 15177-15184.	1.6	105
8	Temporary Charge Carrier Separation Dominates the Photoluminescence Decay Dynamics of Colloidal CdSe Nanoplatelets. Nano Letters, 2016, 16, 2047-2053.	4.5	103
9	Addressing the exciton fine structure in colloidal nanocrystals: the case of CdSe nanoplatelets. Nanoscale, 2018, 10, 646-656.	2.8	89
10	Quantum dotsâ€"DNA bioconjugates: synthesis to applications. Interface Focus, 2016, 6, 20160064.	1.5	78
11	Spin dynamics of negatively charged excitons in CdSe/CdS colloidal nanocrystals. Physical Review B, 2013, 88, .	1.1	64
12	Negatively Charged Excitons in CdSe Nanoplatelets. Nano Letters, 2020, 20, 1370-1377.	4.5	58
13	Electron and Hole g-Factors and Spin Dynamics of Negatively Charged Excitons in CdSe/CdS Colloidal Nanoplatelets with Thick Shells. Nano Letters, 2018, 18, 373-380.	4.5	50
14	DNA detectives. Nature Materials, 2005, 4, 797-798.	13.3	49
15	Comparing Intracellular Stability and Targeting of Sulfobetaine Quantum Dots with Other Surface Chemistries in Live Cells. Small, 2012, 8, 1029-1037.	5.2	45
16	Fast, Efficient, and Stable Conjugation of Multiple DNA Strands on Colloidal Quantum Dots. Bioconjugate Chemistry, 2015, 26, 1582-1589.	1.8	42
17	Surface spin magnetism controls the polarized exciton emission from CdSe nanoplatelets. Nature Nanotechnology, 2020, 15, 277-282.	15.6	32
18	Exciton Binding Energy in CdSe Nanoplatelets Measured by One- and Two-Photon Absorption. Nano Letters, 2021, 21, 10525-10531.	4.5	27

#	Article	IF	Citations
19	Single and Double Electron Spin-Flip Raman Scattering in CdSe Colloidal Nanoplatelets. Nano Letters, 2020, 20, 517-525.	4.5	21
20	Charge Separation Dynamics in CdSe/CdS Core/Shell Nanoplatelets Addressed by Coherent Electron Spin Precession. ACS Nano, 2020, 14, 7237-7244.	7.3	19
21	Dynamics of DNA-Protein Interaction Deduced from in vitro DNA Evolution. Physical Review Letters, 2001, 86, 6022-6025.	2.9	17
22	A novel type of quantum dotâ€“transferrin conjugate using DNA hybridization mimics intracellular recycling of endogenous transferrin. Nanoscale, 2017, 9, 15453-15460.	2.8	7