

Benjamin Bruhn

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

257
citations

933447

10
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

318
citing authors

#	ARTICLE	IF	CITATIONS
1	Exciton lifetime measurements on single silicon quantum dots. <i>Nanotechnology</i> , 2013, 24, 225204.	2.6	40
2	Coexistence of 1D and Quasi-0D Photoluminescence from Single Silicon Nanowires. <i>Nano Letters</i> , 2011, 11, 3003-3009.	9.1	37
3	Controlled fabrication of individual silicon quantum rods yielding high intensity, polarized light emission. <i>Nanotechnology</i> , 2009, 20, 505301.	2.6	34
4	Blinking Statistics of Silicon Quantum Dots. <i>Nano Letters</i> , 2011, 11, 5574-5580.	9.1	31
5	Rapid Trapping as the Origin of Nonradiative Recombination in Semiconductor Nanocrystals. <i>ACS Photonics</i> , 2018, 5, 2990-2996.	6.6	20
6	Fabricating single silicon quantum rods for repeatable single dot photoluminescence measurements. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 631-634.	1.8	16
7	Blinking Statistics and Excitation-Dependent Luminescence Yield in Si and CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2202-2208.	3.1	15
8	Transition from silicon nanowires to isolated quantum dots: Optical and structural evolution. <i>Physical Review B</i> , 2013, 87, .	3.2	13
9	Multi-chromatic silicon nanocrystals. <i>Light: Science and Applications</i> , 2017, 6, e17007-e17007.	16.6	13
10	Strong Absorption Enhancement in Si Nanorods. <i>Nano Letters</i> , 2016, 16, 7937-7941.	9.1	11
11	Surface concentration dependent structures of iodine on Pd(110). <i>Journal of Chemical Physics</i> , 2012, 137, 204703.	3.0	9
12	Polarization of photoluminescence excitation and emission spectra of silicon nanorods within single Si/SiO ₂ nanowires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1017-1020.	0.8	7
13	Temporal correlation of blinking events in CdSe/ZnS and Si/SiO ₂ nanocrystals. <i>Physica B: Condensed Matter</i> , 2014, 453, 63-67.	2.7	6
14	X-ray radiation hardness and influence on blinking in Si and CdSe quantum dots. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	3
15	Effect of X-ray irradiation on the blinking of single silicon nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2692-2695.	1.8	2