Brian Julsgaard

List of Publications by Year
in descending order

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40	2,892	566801 15	315357 38
papers	citations	h-index	g-index

41	41	41	2640
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental long-lived entanglement of two macroscopic objects. Nature, 2001, 413, 400-403.	13.7	980
2	Experimental demonstration of quantum memory for light. Nature, 2004, 432, 482-486.	13.7	727
3	Quantum teleportation between light and matter. Nature, 2006, 443, 557-560.	13.7	644
4	Quantum Memory for Microwave Photons in an Inhomogeneously Broadened Spin Ensemble. Physical Review Letters, 2013, 110, 250503.	2.9	119
5	Short-Circuit Degradation of 10-kV 10-A SiC MOSFET. IEEE Transactions on Power Electronics, 2017, 32, 9342-9354.	5.4	59
6	Towards a spin-ensemble quantum memory for superconducting qubits. Comptes Rendus Physique, 2016, 17, 693-704.	0.3	34
7	Deterministic Atomâ€“Light Quantum Interface. Advances in Atomic, Molecular and Optical Physics, 2007, 54, 81-130.	2.3	29
8	Plasmonically enhanced upconversion of 1500â€‰nm light via trivalent Er in a TiO2 matrix. Applied Physics Letters, 2016, 109, .	1.5	19
9	Carrier lifetime of GeSn measured by spectrally resolved picosecond photoluminescence spectroscopy. Photonics Research, 2020, 8, 788.	3.4	19
10	Up-conversion enhancement in Er3+ doped TiO2 through plasmonic coupling: Experiments and finite-element modeling. Applied Physics Letters, 2015, 106, 053101.	1.5	18
11	Dynamical evolution of an inverted spin ensemble in a cavity: Inhomogeneous broadening as a stabilizing mechanism. Physical Review A, 2012, 86, .	1.0	17
12	Resonant Plasmon-Enhanced Upconversion in Monolayers of Coreâ€“Shell Nanocrystals: Role of Shell Thickness. ACS Applied Materials & Interfaces, 2019, 11, 1209-1218.	4.0	17
13	Infrared upconversion in radio frequency magnetron sputtered Er-doped zinc oxide thin films. Applied Physics Letters, 2014, 104, 102106.	1.5	16
14	Optical characterization of LiF:Mg,Cu,P â€“ Towards 3D optically stimulated luminescence dosimetry. Radiation Measurements, 2020, 138, 106390.	0.7	16
15	Fundamental limitations in spin-ensemble quantum memories for cavity fields. Physical Review A, 2013, 88, .	1.0	15
16	A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry. Nano Letters, 2022, 22, 1566-1572.	4.5	15
17	Strongly enhanced upconversion in trivalent erbium ions by tailored gold nanostructures: Toward high-efficient silicon-based photovoltaics. Solar Energy Materials and Solar Cells, 2020, 208, 110406.	3.0	14
18	Measurement-induced two-qubit entanglement in a bad cavity: Fundamental and practical considerations. Physical Review A, 2012, 85, .	1.0	13

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19	Topology optimized gold nanostrips for enhanced near-infrared photon upconversion. Applied Physics Letters, 2017, 111, .	1.5	13
20	Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. ACS Applied Energy Materials, 2020, 3, 253-259.	2.5	12
21	Analytical model for the intensity dependence of 1500â€‰nm to 980â€‰nm upconversion in Er3+: A new tool for material characterization. Journal of Applied Physics, 2019, 125, 043106.	1.1	10
22	Optically stimulated luminescence in state-of-the-art LYSO:Ce scintillators enables high spatial resolution 3D dose imaging. Scientific Reports, 2022, 12, 8301.	1.6	9
23	Light emission from silicon with tin-containing nanocrystals. AIP Advances, 2015, 5, .	0.6	8
24	Upconversion luminescence from magnetron-sputtered Er3+-doped TiO2 films: Influence of deposition- and annealing temperatures and correlation to decay times. Journal of Applied Physics, 2018, 124, 163105.	1.1	8
25	Enhanced upconversion via plasmonic near-field effects: role of the particle shape. Journal of Optics (United Kingdom), 2019, 21, 035004.	1.0	8
26	Optimizing Plasmonically Enhanced Upconversion. Energy Procedia, 2015, 77, 478-486.	1.8	7
27	Auger-decay dynamics of germanium nano-islands in silicon. Nanotechnology, 2011, 22, 435401.	1.3	6
28	Near-field marking of gold nanostars by ultrashort pulsed laser irradiation: experiment and simulations. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	6
29	Evolution of Electrically Active Defects in nâ€GaN During Heat Treatment Typical for Ohmic Contact Formation. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700516.	0.8	6
30	Impact of a SiGe interfacial layer on the growth of a SiC layer on Si with voids at the interface. Thin Solid Films, 2018, 662, 103-109.	0.8	5
31	Time-resolved infrared photoluminescence spectroscopy using parametric three-wave mixing with angle-tuned phase matching. Optics Letters, 2018, 43, 3001.	1.7	5
32	Field-enhancing photonic devices utilizing waveguide coupling and plasmonics - a selection rule for optimization-based design. Optics Express, 2018, 26, A788.	1.7	4
33	Improving Upconversion Efficiency by Photon Management in Self-Assembled Core/Shell Nanocrystal Films. Journal of Physical Chemistry C, 2020, 124, 22357-22365.	1.5	4
34	Fidelity of Fock-state-encoded qubits subjected to continuous-variable Gaussian processes. Physical Review A, 2014, 89, .	1.0	3
35	Signal requirements for 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012033.	0.3	3
36	Synthesis and structural characterization of Al₂O₃ nanoparticles: Towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012023.	0.3	2

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37	Erbium diffusion in titanium dioxide. AIP Advances, 2017, 7, 045202.	0.6	1
38	RSC: Optically stimulated emission of LiF:Mg, Cu, P - towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012026.	0.3	1
39	Light emission from silicon containing Sn-nanocrystals. , 2016, , .		0
40	Optical characterization of SiC films grown on Si(111). Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	0