

# Brian Julsgaard

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,892  
citations

567281

15  
h-index

315739

38  
g-index

41  
all docs

41  
docs citations

41  
times ranked

2640  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental long-lived entanglement of two macroscopic objects. <i>Nature</i> , 2001, 413, 400-403.	27.8	980
2	Experimental demonstration of quantum memory for light. <i>Nature</i> , 2004, 432, 482-486.	27.8	727
3	Quantum teleportation between light and matter. <i>Nature</i> , 2006, 443, 557-560.	27.8	644
4	Quantum Memory for Microwave Photons in an Inhomogeneously Broadened Spin Ensemble. <i>Physical Review Letters</i> , 2013, 110, 250503.	7.8	119
5	Short-Circuit Degradation of 10-kV 10-A SiC MOSFET. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 9342-9354.	7.9	59
6	Towards a spin-ensemble quantum memory for superconducting qubits. <i>Comptes Rendus Physique</i> , 2016, 17, 693-704.	0.9	34
7	Deterministic Atom-Light Quantum Interface. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2007, 54, 81-130.	2.3	29
8	Plasmonically enhanced upconversion of 1500-nm light via trivalent Er in a TiO <sub>2</sub> matrix. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	19
9	Carrier lifetime of GeSn measured by spectrally resolved picosecond photoluminescence spectroscopy. <i>Photonics Research</i> , 2020, 8, 788.	7.0	19
10	Up-conversion enhancement in Er <sup>3+</sup> doped TiO <sub>2</sub> through plasmonic coupling: Experiments and finite-element modeling. <i>Applied Physics Letters</i> , 2015, 106, 053101.	3.3	18
11	Dynamical evolution of an inverted spin ensemble in a cavity: Inhomogeneous broadening as a stabilizing mechanism. <i>Physical Review A</i> , 2012, 86, .	2.5	17
12	Resonant Plasmon-Enhanced Upconversion in Monolayers of Core-Shell Nanocrystals: Role of Shell Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1209-1218.	8.0	17
13	Infrared upconversion in radio frequency magnetron sputtered Er-doped zinc oxide thin films. <i>Applied Physics Letters</i> , 2014, 104, 102106.	3.3	16
14	Optical characterization of LiF:Mg,Cu,P - Towards 3D optically stimulated luminescence dosimetry. <i>Radiation Measurements</i> , 2020, 138, 106390.	1.4	16
15	Fundamental limitations in spin-ensemble quantum memories for cavity fields. <i>Physical Review A</i> , 2013, 88, .	2.5	15
16	A Novel Nanocomposite Material for Optically Stimulated Luminescence Dosimetry. <i>Nano Letters</i> , 2022, 22, 1566-1572.	9.1	15
17	Strongly enhanced upconversion in trivalent erbium ions by tailored gold nanostructures: Toward high-efficient silicon-based photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110406.	6.2	14
18	Measurement-induced two-qubit entanglement in a bad cavity: Fundamental and practical considerations. <i>Physical Review A</i> , 2012, 85, .	2.5	13

#	ARTICLE	IF	CITATIONS
19	Topology optimized gold nanostrips for enhanced near-infrared photon upconversion. Applied Physics Letters, 2017, 111, .	3.3	13
20	Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. ACS Applied Energy Materials, 2020, 3, 253-259.	5.1	12
21	Analytical model for the intensity dependence of 1500â€‰nm to 980â€‰nm upconversion in Er <sup>3+</sup> : A new tool for material characterization. Journal of Applied Physics, 2019, 125, 043106.	2.5	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.	3.3	9
23	Light emission from silicon with tin-containing nanocrystals. AIP Advances, 2015, 5, .	1.3	8
24	Upconversion luminescence from magnetron-sputtered Er <sup>3+</sup> -doped TiO <sub>2</sub> films: Influence of deposition- and annealing temperatures and correlation to decay times. Journal of Applied Physics, 2018, 124, 163105.	2.5	8
25	Enhanced upconversion via plasmonic near-field effects: role of the particle shape. Journal of Optics (United Kingdom), 2019, 21, 035004.	2.2	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.	2.6	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.	2.3	6
29	Evolution of Electrically Active Defects in n-GaN During Heat Treatment Typical for Ohmic Contact Formation. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700516.	1.8	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.	1.8	5
31	Time-resolved infrared photoluminescence spectroscopy using parametric three-wave mixing with angle-tuned phase matching. Optics Letters, 2018, 43, 3001.	3.3	5
32	Field-enhancing photonic devices utilizing waveguide coupling and plasmonics - a selection rule for optimization-based design. Optics Express, 2018, 26, A788.	3.4	4
33	Improving Upconversion Efficiency by Photon Management in Self-Assembled Core/Shell Nanocrystal Films. Journal of Physical Chemistry C, 2020, 124, 22357-22365.	3.1	4
34	Fidelity of Fock-state-encoded qubits subjected to continuous-variable Gaussian processes. Physical Review A, 2014, 89, .	2.5	3
35	Signal requirements for 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012033.	0.4	3
36	Synthesis and structural characterization of Al <sub>2</sub> O <sub>3</sub> nanoparticles: Towards 3D optically stimulated luminescence dosimetry. Journal of Physics: Conference Series, 2022, 2167, 012023.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Erbium diffusion in titanium dioxide. AIP Advances, 2017, 7, 045202.	1.3	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.	0.4	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.	2.2	0