Oliver Benson

List of Publications by Year
in descending order

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		101543	79698
96	6,660	36	73
papers	citations	h-index	g-index

99	99	99	7826
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regulated and Entangled Photons from a Single Quantum Dot. Physical Review Letters, 2000, 84, 2513-2516.	7.8	884
2	CdSe/CdS/ZnS and CdSe/ZnSe/ZnS Coreâ^'Shellâ^'Shell Nanocrystals. Journal of Physical Chemistry B, 2004, 108, 18826-18831.	2.6	688
3	Highly Emissive Colloidal CdSe/CdS Heterostructures of Mixed Dimensionality. Nano Letters, 2003, 3, 1677-1681.	9.1	579
4	Plasmon-Enhanced Upconversion in Single NaYF₄:Yb³⁺/Er³⁺ Codoped Nanocrystals. Nano Letters, 2010, 10, 134-138.	9.1	444
5	Hybrid integrated quantum photonic circuits. Nature Photonics, 2020, 14, 285-298.	31.4	411
6	Plasmon-Enhanced Single Photon Emission from a Nanoassembled Metalâ^'Diamond Hybrid Structure at Room Temperature. Nano Letters, 2009, 9, 1694-1698.	9.1	354
7	Assembly of hybrid photonic architectures from nanophotonic constituents. Nature, 2011, 480, 193-199.	27.8	327
8	Enhancement of the zero phonon line emission from a single nitrogen vacancy center in a nanodiamond via coupling to a photonic crystal cavity. Applied Physics Letters, 2010, 97, 141108.	3.3	219
9	Nanoassembled Plasmonic-Photonic Hybrid Cavity for Tailored Light-Matter Coupling. Nano Letters, 2010, 10, 891-895.	9.1	180
10	Observation of Size Dependence in Multicolor Upconversion in Single Yb³⁺, Er³⁺ Codoped NaYF₄ Nanocrystals. Nano Letters, 2009, 9, 2477-2481.	9.1	173
11	An ultrafast quantum random number generator with provably bounded output bias based on photon arrival time measurements. Applied Physics Letters, 2011, 98, .	3.3	145
12	Fiber-Integrated Diamond-Based Single Photon Source. Nano Letters, 2011, 11, 198-202.	9.1	133
13	One-by-One Coupling of Single Defect Centers in Nanodiamonds to High-Q Modes of an Optical Microresonator. Nano Letters, 2008, 8, 3911-3915.	9.1	121
14	Highly efficient fluorescence sensing with hollow core photonic crystal fibers. Optics Express, 2007, 15, 12783.	3.4	112
15	Ultrabright and efficient single-photon generation based on nitrogen-vacancy centres in nanodiamonds on a solid immersion lens. New Journal of Physics, 2011, 13, 055017.	2.9	107
16	Controlled coupling of a single-diamond nanocrystal to a photonic crystal cavity. Optics Letters, 2009, 34, 1108.	3.3	101
17	Three-dimensional quantum photonic elements based on single nitrogen vacancy-centres in laser-written microstructures. Scientific Reports, 2013, 3, 1577.	3.3	93
18	Evaluation of nitrogen- and silicon-vacancy defect centres as single photon sources in quantum key distribution. New Journal of Physics, 2014, 16, 023021.	2.9	91

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19	A nanodiamond-tapered fiber system with high single-mode coupling efficiency. Optics Express, 2012, 20, 10490.	3.4	90
20	Measurement of the Ultrafast Spectral Diffusion of the Optical Transition of Nitrogen Vacancy Centers in Nano-Size Diamond Using Correlation Interferometry. Physical Review Letters, 2013, 110, 027401.	7.8	90
21	A scanning probe-based pick-and-place procedure for assembly of integrated quantum optical hybrid devices. Review of Scientific Instruments, 2011, 82, 073709.	1.3	81
22	Single defect centers in diamond nanocrystals as quantum probes for plasmonic nanostructures. Optics Express, 2011, 19, 7914.	3.4	73
23	Manipulation of dielectric particles using photonic crystal cavities. Applied Physics Letters, 2006, 89, 253114.	3.3	69
24	Master-equation model of a single-quantum-dot microsphere laser. Physical Review A, 1999, 59, 4756-4763.	2.5	65
25	Modification of visible spontaneous emission with silicon nitride photonic crystal nanocavities. Optics Express, 2007, 15, 17231.	3.4	65
26	Processing of photonic crystal nanocavity for quantum information in diamond. Diamond and Related Materials, 2011, 20, 937-943.	3.9	62
27	Highly Efficient Coupling of Nanolight Emitters to a Ultra-Wide Tunable Nanofibre Cavity. Scientific Reports, 2015, 5, 9619.	3.3	51
28	Nitrogen vacancy center fluorescence from a submicron diamond cluster levitated in a linear quadrupole ion trap. Applied Physics Letters, 2014, 105, .	3.3	50
29	Narrow-band single photon emission at room temperature based on a single nitrogen-vacancy center coupled to an all-fiber-cavity. Applied Physics Letters, 2014, 105, 073113.	3.3	50
30	Selectively coated photonic crystal fiber for highly sensitive fluorescence detection. Applied Physics Letters, 2007, 90, 111101.	3.3	47
31	Emission properties of high-Q silicon nitride photonic crystal heterostructure cavities. Applied Physics Letters, 2008, 93, 021112.	3.3	46
32	In Situ Observation of Plasmon Tuning in a Single Gold Nanoparticle during Controlled Melting. Nano Letters, 2013, 13, 2041-2046.	9.1	44
33	Quantum optics with single quantum dot devices. New Journal of Physics, 2004, 6, 96-96.	2.9	38
34	Quantum Zeno phenomenon on a single solid-state spin. Physical Review A, 2013, 88, .	2.5	38
35	A realistic fabrication and design concept for quantum gates based on single emitters integrated in plasmonic-dielectric waveguide structures. Scientific Reports, 2016, 6, 28877.	3.3	37
36	Coupling of single nitrogenâ€vacancy defect centers in diamond nanocrystals to optical antennas and photonic crystal cavities. Physica Status Solidi (B): Basic Research, 2012, 249, 918-924.	1.5	36

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37	Investigation of Line Width Narrowing and Spectral Jumps of Single Stable Defect Centers in ZnO at Cryogenic Temperature. Nano Letters, 2015, 15, 3024-3029.	9.1	35
38	On-demand positioning of a preselected quantum emitter on a fiber-coupled toroidal microresonator. Applied Physics Letters, 2009, 95, 153110.	3.3	33
39	Controlled coupling of NV defect centers to plasmonic and photonic nanostructures. Journal of Luminescence, 2010, 130, 1628-1634.	3.1	33
40	Coupling single NV-centres to high-Qwhispering gallery modes of a preselected frequency-matched microresonator. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 114001.	1.5	30
41	On-chip integration of single solid-state quantum emitters with a SiO₂ photonic platform. New Journal of Physics, 2019, 21, 045007.	2.9	20
42	Separating cascaded photons from a single quantum dot:â€ƒDemonstration of multiplexed quantum cryptography. Physical Review B, 2004, 70, .	3.2	19
43	Laser-written parabolic micro-antennas for efficient photon collection. Applied Physics Letters, 2014, 105, .	3.3	19
44	Bright source of indistinguishable photons based on cavity-enhanced parametric down-conversion utilizing the cluster effect. Applied Physics Letters, 2016, 108, .	3.3	19
45	Measuring the quantum nature of light with a single source and a single detector. Physical Review A, 2012, 86, .	2.5	16
46	Fine-tuning of whispering gallery modes in on-chip silica microdisk resonators within a full spectral range. Applied Physics Letters, 2013, 102, .	3.3	16
47	Coherent interaction of atoms with a beam of light confined in a light cage. Light: Science and Applications, 2021, 10, 114.	16.6	16
48	Deterministic and robust entanglement of nitrogen-vacancy centers using low-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Q</mml:mi></mml:math>photonic-crystal cavities. Physical Review A, 2014, 89, .	2.5	15
49	Coupling a Single Nitrogen-Vacancy Center in Nanodiamond to Superparamagnetic Nanoparticles. Scientific Reports, 2018, 8, 8430.	3.3	15
50	Silica-coated Au/Ag nanorods with tunable surface plasmon bands for nanoplasmonics with single particles. Colloid and Polymer Science, 2013, 291, 585-594.	2.1	14
51	Accurate placement of single nanoparticles on opaque conductive structures. Applied Physics Letters, 2018, 113, .	3.3	14
52	Fiber-Coupled Diamond Micro-Waveguides toward an Efficient Quantum Interface for Spin Defect Centers. ACS Omega, 2017, 2, 7194-7202.	3.5	13
53	Slow and fast single photons from a quantum dot interacting with the excited state hyperfine structure of the Cesium D1-line. Scientific Reports, 2019, 9, 13728.	3.3	13
54	Design and numerical optimization of an easy-to-fabricate photon-to-plasmon coupler for quantum plasmonics. Applied Physics Letters, 2013, 102, .	3.3	12

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55	On-Demand Electrostatic Coupling of Individual Precharacterized Nano- and Microparticles in a Segmented Paul Trap. Nano Letters, 2015, 15, 1993-2000.	9.1	12
56	A monolithic polarization-independent frequency-filter system for filtering of photon pairs. Applied Physics Letters, 2013, 103, .	3.3	11
57	Numerical analysis of efficient light extraction with an elliptical solid immersion lens. Optics Letters, 2014, 39, 4639.	3.3	11
58	Micro-concave waveguide antenna for high photon extraction from nitrogen vacancy centers in nanodiamond. Scientific Reports, 2015, 5, 12013.	3.3	11
59	A hybrid approach towards nanophotonic devices with enhanced functionality. Physica Status Solidi (B): Basic Research, 2009, 246, 298-301.	1.5	10
60	Generalized measurements for optimally discriminating two mixed states and their linear-optical implementation. Journal of Modern Optics, 2010, 57, 188-197.	1.3	7
61	Miniaturized Bragg-grating couplers for SiN-photonic crystal slabs. Optics Express, 2015, 23, 9803.	3.4	7
62	InP/GaInP Quantum Dots as Single-Photon Sources for Quantum Information Processing. Proceedings of the IEEE, 2007, 95, 1791-1804.	21.3	5
63	Thermo-optical response of photonic crystal cavities operating in the visible spectral range. Nanotechnology, 2013, 24, 315204.	2.6	5
64	Incoherent photon conversion in selectively infiltrated hollow-core photonic crystal fibers for single photon generation in the near infrared. Optics Express, 2012, 20, 11536.	3.4	4
65	Addendum: â€œAn ultrafast quantum random number generator with provably bounded output bias based on photon arrival time measurementsâ€•[Appl. Phys. Lett. 98, 171105 (2011)]. Applied Physics Letters, 2012, 101, 159901.	3.3	4
66	A folded-sandwich polarization-entangled two-color photon pair source with large tuning capability for applications in hybrid quantum systems. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	4
67	Multiplexed quantum cryptography with single InP quantum dots. , 2005, , .		3
68	Integrated and compact fiber-coupled single-photon system based on nitrogen-vacancy centers and gradient-index lenses. Optics Letters, 2012, 37, 2901.	3.3	3
69	Strategies for optical integration of single-photon sources. Proceedings of SPIE, 2015, , .	0.8	2
70	A Numerical Study of Plasmonic Nanostructures for Linear and Nonlinear Quantum Elements. , 2019, , 133-155.		2
71	Single Photons from Single Quantum Dots â€" New Light for Quantum Information Processing. , 2008, , 3-15.		2
72	Non-Classical Light from Artificial Atoms. Advances in Atomic, Molecular and Optical Physics, 2006, 53, 1-32.	2.3	1

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73	Manipulation of Dielectric Particles Using Photonic Crystal Cavities. , 2007, , .		1
74	Nanophotonics with Microsphere Resonators. , 2010, , 5â€šÃ„Ã¬1-5â€šÃ„Ã¬28.		1
75	Plasmonic-photonic hybrid cavity for tailored light-matter coupling. Proceedings of SPIE, 2010, , .	0.8	1
76	Photon Counting and Timing in Quantum Optics Experiments. Springer Series on Fluorescence, 2014, , 319-341.	0.8	1
77	Fluid-Filled Optical Fibers. , 2010, , 15-1-15-34.		1
78	Regulated Single Photons and Entangled Photons From a Quantum Dot Microcavity. Nanoscience and Technology, 2002, , 277-305.	1.5	0
79	CdSe/CdS/ZnS and CdSe/ZnSe/ZnS Core?Shell?Shell Nanocrystals.. ChemInform, 2005, 36, no.	0.0	0
80	Selectively Infiltrated Photonic Crystal Fibers for Fluorescence Sensing. , 2007, , .		0
81	Highly efficient fluorescence sensing with hollow core photonic crystal fibers. , 2008, , .		0
82	Entangled Photons from a Lightâ€Emitting Diode. ChemPhysChem, 2010, 11, 3395-3397.	2.1	0
83	Room-temperature single-photon sources: design, performance, and applications. Proceedings of SPIE, 2010, , .	0.8	0
84	Assembly of fundamental photonic elements from single nanodiamonds. , 2010, , .		0
85	Integrated photonic quantum technologies with fiber-integrated single photon emitters. , 2011, , .		0
86	Near-field coupling of a single NV center to a tapered fiber. Proceedings of SPIE, 2012, , .	0.8	0
87	Single photon nanophotonics using NV centers in three-dimensional laser-written microstructures. , 2013, , .		0
88	Demonstration of the quantum Zeno effect on the nitrogen vacancy center in nanodiamond. , 2013, , .		0
89	Ultra-widely tunable nanofiber Bragg cavities for quantum optics. , 2015, , .		0
90	Direct laser writing aligned with nano-diamonds containing NV-centers as single-photon emitters. , 2015, , .		0

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91	Single-Photon Generation from Single Quantum Dots. Nanoscience and Technology, 2008, , 329-349.	1.5	0
92	Nanophotonics with Single Photons from NV Centers in Three-Dimensional Laser-Written Microstructures. , 2013, , .		0
93	On-Chip Integration of NV Centers in Three-Dimensional Laser-Written Microstructures for Single Photon Applications. , 2014, , .		0
94	Establishing Quantum Hybrid Systems with Tailored Photons. , 2016, , .		0
95	Hybrid light collection. Semiconductors and Semimetals, 2020, 103, 257-275.	0.7	0
96	Quantum Networks Based on Single Photons. Springer Series in Solid-state Sciences, 2020, , 361-390.	0.3	0