Simone L Portalupi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Near-optimal single-photon sources in the solid state. Nature Photonics, 2016, 10, 340-345.	31.4	858
2	Light scattering and Fano resonances in high-Q photonic crystal nanocavities. Applied Physics Letters, 2009, 94, .	3.3	250
3	Planar photonic crystal cavities with far-field optimization for high coupling efficiency and quality factor. Optics Express, 2010, 18, 16064.	3.4	139
4	Deterministic and electrically tunable bright single-photon source. Nature Communications, 2014, 5, 3240.	12.8	110
5	Single-photon emission at 1.55 <i>î¼ </i> m from MOVPE-grown InAs quantum dots on InGaAs/GaAs metamorphic buffers. Applied Physics Letters, 2017, 111, .	3.3	95
6	Two-photon interference in the telecom C-band after frequency conversion of photons from remote quantum emitters. Nature Nanotechnology, 2019, 14, 23-26.	31.5	82
7	Room temperature allâ€silicon photonic crystal nanocavity light emitting diode at subâ€bandgap wavelengths. Laser and Photonics Reviews, 2013, 7, 114-121.	8.7	67
8	Fully On-Chip Single-Photon Hanbury-Brown and Twiss Experiment on a Monolithic Semiconductor–Superconductor Platform. Nano Letters, 2018, 18, 6892-6897.	9.1	61
9	Room-temperature emission at telecom wavelengths from silicon photonic crystal nanocavities. Applied Physics Letters, 2011, 98, 201106.	3.3	60
10	Cavity-enhanced two-photon interference using remote quantum dot sources. Physical Review B, 2015, 92, .	3.2	60
11	Polarization-entangled photons from an InGaAs-based quantum dot emitting in the telecom C-band. Applied Physics Letters, 2017, 111, .	3.3	60
12	Combining in-situ lithography with 3D printed solid immersion lenses for single quantum dot spectroscopy. Scientific Reports, 2017, 7, 39916.	3.3	57
13	Coherence and indistinguishability of highly pure single photons from non-resonantly and resonantly excited telecom C-band quantum dots. Applied Physics Letters, 2019, 115, .	3.3	48
14	InAs quantum dots grown on metamorphic buffers as non-classical light sources at telecom C-band: a review. Semiconductor Science and Technology, 2019, 34, 053001.	2.0	47
15	Semiconductor Quantum Dots for Integrated Quantum Photonics. Advanced Quantum Technologies, 2019, 2, 1900020.	3.9	45
16	Entangling Quantum-Logic Gate Operated with an Ultrabright Semiconductor Single-Photon Source. Physical Review Letters, 2013, 110, 250501.	7.8	44
17	Simultaneous Faraday filtering of the Mollow triplet sidebands with the Cs-D1 clock transition. Nature Communications, 2016, 7, 13632.	12.8	43
18	Structural and optical properties of InAs/(In)GaAs/GaAs quantum dots with single-photon emission in the telecom C-band up to 77 K. Physical Review B, 2018, 98, .	3.2	41

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19	Deliberate versus intrinsic disorder in photonic crystal nanocavities investigated by resonant light scattering. Physical Review B, 2011, 84, .	3.2	39
20	Highly indistinguishable single photons from incoherently excited quantum dots. Physical Review B, 2019, 100, .	3.2	39
21	Bright Purcell Enhanced Single-Photon Source in the Telecom O-Band Based on a Quantum Dot in a Circular Bragg Grating. Nano Letters, 2021, 21, 7740-7745.	9.1	39
22	Cavity-enhanced simultaneous dressing of quantum dot exciton and biexciton states. Physical Review B, 2016, 93, .	3.2	36
23	Quantum dot single-photon emission coupled into single-mode fibers with 3D printed micro-objectives. APL Photonics, 2020, 5, .	5.7	35
24	Bright Phonon-Tuned Single-Photon Source. Nano Letters, 2015, 15, 6290-6294.	9.1	34
25	Deterministic integration and optical characterization of telecom O-band quantum dots embedded into wet-chemically etched Gaussian-shaped microlenses. Applied Physics Letters, 2018, 113, .	3.3	33
26	Highly Polarized Single Photons from Strain-Induced Quasi-1D Localized Excitons in WSe ₂ . Nano Letters, 2021, 21, 7175-7182.	9.1	33
27	Novel Dispersion-Adapted Photonic Crystal Cavity With Improved Disorder Stability. IEEE Journal of Quantum Electronics, 2012, 48, 1177-1183.	1.9	32
28	Ultra-Efficient Silicon-on-Insulator Grating Couplers With Backside Metal Mirrors. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-6.	2.9	31
29	On-chip beamsplitter operation on single photons from quasi-resonantly excited quantum dots embedded in GaAs rib waveguides. Applied Physics Letters, 2015, 107, .	3.3	30
30	Generation, guiding and splitting of triggered single photons from a resonantly excited quantum dot in a photonic circuit. Optics Express, 2016, 24, 3089.	3.4	30
31	Two-photon interference in an atom–quantum dot hybrid system. Optica, 2018, 5, 367.	9.3	29
32	Low-noise quantum frequency down-conversion of indistinguishable photons. Optics Express, 2016, 24, 22250.	3.4	27
33	Deterministic fabrication of circular Bragg gratings coupled to single quantum emitters via the combination of <i>in-situ</i> optical lithography and electron-beam lithography. Journal of Applied Physics, 2019, 125, .	2.5	27
34	3D printed micro-optics for quantum technology: Optimised coupling of single quantum dot emission into a single-mode fibre. Light Advanced Manufacturing, 2021, 2, 103.	5.1	26
35	Thin-film InGaAs metamorphic buffer for telecom C-band InAs quantum dots and optical resonators on GaAs platform. Nanophotonics, 2022, 11, 1109-1116.	6.0	20
36	Resonance fluorescence of single In(Ga)As quantum dots emitting in the telecom C-band. Applied Physics Letters, 2021, 118, .	3.3	19

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37	Optical charge injection and coherent control of a quantum-dot spin-qubit emitting at telecom wavelengths. Nature Communications, 2022, 13, 748.	12.8	19
38	Temperature-dependent properties of single long-wavelength InGaAs quantum dots embedded in a strain reducing layer. Journal of Applied Physics, 2017, 121, 184302.	2.5	18
39	Perspective of self-assembled InGaAs quantum-dots for multi-source quantum implementations. Applied Physics Letters, 2020, 117, 030501.	3.3	18
40	Enhancement of room temperature sub-bandgap light emission from silicon photonic crystal nanocavity by Purcell effect. Physica B: Condensed Matter, 2012, 407, 4027-4031.	2.7	17
41	Influence of the Purcell effect on the purity of bright single photon sources. Applied Physics Letters, 2013, 103, .	3.3	16
42	Purcell-enhanced single-photon emission from a strain-tunable quantum dot in a cavity-waveguide device. Applied Physics Letters, 2020, 117, .	3.3	16
43	Bragg grating cavities embedded into nano-photonic waveguides for Purcell enhanced quantum dot emission. Optics Express, 2018, 26, 30614.	3.4	16
44	Quantum dot-based broadband optical antenna for efficient extraction of single photons in the telecom O-band. Optics Express, 2020, 28, 19457.	3.4	16
45	Overcoming correlation fluctuations in two-photon interference experiments with differently bright and independently blinking remote quantum emitters. Physical Review B, 2018, 97, .	3.2	15
46	Pure single-photon emission from In(Ga)As QDs in a tunable fiber-based external mirror microcavity. Quantum Science and Technology, 2018, 3, 034009.	5.8	10
47	Probing different regimes of strong field light–matter interaction with semiconductor quantum dots and few cavity photons. New Journal of Physics, 2016, 18, 123031.	2.9	9
48	Characterization of spectral diffusion by slow-light photon-correlation spectroscopy. Physical Review B, 2020, 101, .	3.2	9
49	Single-photon light-emitting diodes based on preselected quantum dots using a deterministic lithography technique. Applied Physics Letters, 2019, 114, .	3.3	8
50	Achieving stable fiber coupling of quantum dot telecom C-band single-photons to an SOI photonic device. Applied Physics Letters, 2021, 119, .	3.3	8
51	Integrated Optoelectronic Devices Using Labâ€Onâ€Fiber Technology. Advanced Materials Technologies, 2022, 7, .	5.8	8
52	Tuning emission energy and fine structure splitting in quantum dots emitting in the telecom O-band. AIP Advances, 2019, 9, .	1.3	7
53	Controllable Delay and Polarization Routing of Single Photons. Advanced Quantum Technologies, 2020, 3, 1900057.	3.9	5
54	Realization of a tunable fiber-based double cavity system. Physical Review B, 2020, 102, .	3.2	5

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55	Faraday Filtering on the Cs-D1-Line for Quantum Hybrid Systems. IEEE Photonics Technology Letters, 2018, 30, 2083-2086.	2.5	4
56	Spatial and Fourier-space distribution of confined optical Tamm modes. New Journal of Physics, 2016, 18, 083018.	2.9	3
57	Semiconductor Quantum Dots for Integrated Quantum Photonics (Adv. Quantum Technol. 9/2019). Advanced Quantum Technologies, 2019, 2, 1970053.	3.9	3
58	Confined Visible Optical Tamm States. Journal of Electronic Materials, 2016, 45, 2307-2310.	2.2	2
59	Single-photon and polarization-entangled photon emission from InAs quantum dots in the telecom C-band. , 2018, , .		1
60	Light generation in silicon photonic crystal cavities. , 2011, , .		0
61	Novel photonic crystal nanocavity design with high tolerance to disorder. , 2012, , .		0
62	Toward a quantum network based on semiconductor quantum dots. , 2014, , .		0
63	Quantum Dot Single-Photon Emission Coupled into Single-Mode Fibers with 3D Printed Micro-Objectives. , 2021, , .		0
64	Delaying two-photon Fock states in hot cesium vapor using single photons generated on demand from a semiconductor quantum dot. Physical Review B, 2021, 103, .	3.2	0
65	Efficient and stable fiber-to-chip coupling enabling the injection of telecom quantum dot photons into a silicon photonic chip. , 2021, , .		0
66	Investigation of Resonance Fluorescence in the Telecom C-Band from In(Ga)As Quantum Dots. , 2021, , .		0
67	Enhanced Light Emission from Silicon using Photonic Crystal Nanocavities. , 2011, , .		0
68	Enhancing Optical Functionalities of Silicon with Photonic Crystal Nanocavities. , 2012, , .		0
69	Quantum dot based quantum optics. , 2015, , .		0
70	Resonantly Excited Quantum Dots: Superior Non-classical Light Sources for Quantum Information. Nano-optics and Nanophotonics, 2017, , 77-121.	0.2	0