

Simone L Portalupi

List of Publications by Year in descending order

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70
papers

2,959
citations

172207

29
h-index

161609

54
g-index

70
all docs

70
docs citations

70
times ranked

2624
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-optimal single-photon sources in the solid state. <i>Nature Photonics</i> , 2016, 10, 340-345.	15.6	858
2	Light scattering and Fano resonances in high-Q photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	250
3	Planar photonic crystal cavities with far-field optimization for high coupling efficiency and quality factor. <i>Optics Express</i> , 2010, 18, 16064.	1.7	139
4	Deterministic and electrically tunable bright single-photon source. <i>Nature Communications</i> , 2014, 5, 3240.	5.8	110
5	Single-photon emission at 1.55 μm from MOVPE-grown InAs quantum dots on InGaAs/GaAs metamorphic buffers. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	95
6	Two-photon interference in the telecom C-band after frequency conversion of photons from remote quantum emitters. <i>Nature Nanotechnology</i> , 2019, 14, 23-26.	15.6	82
7	Room temperature all-silicon photonic crystal nanocavity light emitting diode at sub-bandgap wavelengths. <i>Laser and Photonics Reviews</i> , 2013, 7, 114-121.	4.4	67
8	Fully On-Chip Single-Photon Hanbury-Brown and Twiss Experiment on a Monolithic Semiconductor-Superconductor Platform. <i>Nano Letters</i> , 2018, 18, 6892-6897.	4.5	61
9	Room-temperature emission at telecom wavelengths from silicon photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2011, 98, 201106.	1.5	60
10	Cavity-enhanced two-photon interference using remote quantum dot sources. <i>Physical Review B</i> , 2015, 92, .	1.1	60
11	Polarization-entangled photons from an InGaAs-based quantum dot emitting in the telecom C-band. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	60
12	Combining in-situ lithography with 3D printed solid immersion lenses for single quantum dot spectroscopy. <i>Scientific Reports</i> , 2017, 7, 39916.	1.6	57
13	Coherence and indistinguishability of highly pure single photons from non-resonantly and resonantly excited telecom C-band quantum dots. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	48
14	InAs quantum dots grown on metamorphic buffers as non-classical light sources at telecom C-band: a review. <i>Semiconductor Science and Technology</i> , 2019, 34, 053001.	1.0	47
15	Semiconductor Quantum Dots for Integrated Quantum Photonics. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900020.	1.8	45
16	Entangling Quantum-Logic Gate Operated with an Ultrabright Semiconductor Single-Photon Source. <i>Physical Review Letters</i> , 2013, 110, 250501.	2.9	44
17	Simultaneous Faraday filtering of the Mollow triplet sidebands with the Cs-D1 clock transition. <i>Nature Communications</i> , 2016, 7, 13632.	5.8	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. <i>Physical Review B</i> , 2018, 98, .	1.1	41

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19	Deliberate versus intrinsic disorder in photonic crystal nanocavities investigated by resonant light scattering. <i>Physical Review B</i> , 2011, 84, .	1.1	39
20	Highly indistinguishable single photons from incoherently excited quantum dots. <i>Physical Review B</i> , 2019, 100, .	1.1	39
21	Bright Purcell Enhanced Single-Photon Source in the Telecom O-Band Based on a Quantum Dot in a Circular Bragg Grating. <i>Nano Letters</i> , 2021, 21, 7740-7745.	4.5	39
22	Cavity-enhanced simultaneous dressing of quantum dot exciton and biexciton states. <i>Physical Review B</i> , 2016, 93, .	1.1	36
23	Quantum dot single-photon emission coupled into single-mode fibers with 3D printed micro-objectives. <i>APL Photonics</i> , 2020, 5, .	3.0	35
24	Bright Phonon-Tuned Single-Photon Source. <i>Nano Letters</i> , 2015, 15, 6290-6294.	4.5	34
25	Deterministic integration and optical characterization of telecom O-band quantum dots embedded into wet-chemically etched Gaussian-shaped microlenses. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	33
26	Highly Polarized Single Photons from Strain-Induced Quasi-1D Localized Excitons in WSe_2 . <i>Nano Letters</i> , 2021, 21, 7175-7182.	4.5	33
27	Novel Dispersion-Adapted Photonic Crystal Cavity With Improved Disorder Stability. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 1177-1183.	1.0	32
28	Ultra-Efficient Silicon-on-Insulator Grating Couplers With Backside Metal Mirrors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-6.	1.9	31
29	On-chip beamsplitter operation on single photons from quasi-resonantly excited quantum dots embedded in GaAs rib waveguides. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	30
30	Generation, guiding and splitting of triggered single photons from a resonantly excited quantum dot in a photonic circuit. <i>Optics Express</i> , 2016, 24, 3089.	1.7	30
31	Two-photon interference in an atom-quantum dot hybrid system. <i>Optica</i> , 2018, 5, 367.	4.8	29
32	Low-noise quantum frequency down-conversion of indistinguishable photons. <i>Optics Express</i> , 2016, 24, 22250.	1.7	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. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	27
34	3D printed micro-optics for quantum technology: Optimised coupling of single quantum dot emission into a single-mode fibre. <i>Light Advanced Manufacturing</i> , 2021, 2, 103.	2.2	26
35	Thin-film InGaAs metamorphic buffer for telecom C-band InAs quantum dots and optical resonators on GaAs platform. <i>Nanophotonics</i> , 2022, 11, 1109-1116.	2.9	20
36	Resonance fluorescence of single In(Ga)As quantum dots emitting in the telecom C-band. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	19

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37	Optical charge injection and coherent control of a quantum-dot spin-qubit emitting at telecom wavelengths. <i>Nature Communications</i> , 2022, 13, 748.	5.8	19
38	Temperature-dependent properties of single long-wavelength InGaAs quantum dots embedded in a strain reducing layer. <i>Journal of Applied Physics</i> , 2017, 121, 184302.	1.1	18
39	Perspective of self-assembled InGaAs quantum-dots for multi-source quantum implementations. <i>Applied Physics Letters</i> , 2020, 117, 030501.	1.5	18
40	Enhancement of room temperature sub-bandgap light emission from silicon photonic crystal nanocavity by Purcell effect. <i>Physica B: Condensed Matter</i> , 2012, 407, 4027-4031.	1.3	17
41	Influence of the Purcell effect on the purity of bright single photon sources. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	16
42	Purcell-enhanced single-photon emission from a strain-tunable quantum dot in a cavity-waveguide device. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	16
43	Bragg grating cavities embedded into nano-photonic waveguides for Purcell enhanced quantum dot emission. <i>Optics Express</i> , 2018, 26, 30614.	1.7	16
44	Quantum dot-based broadband optical antenna for efficient extraction of single photons in the telecom O-band. <i>Optics Express</i> , 2020, 28, 19457.	1.7	16
45	Overcoming correlation fluctuations in two-photon interference experiments with differently bright and independently blinking remote quantum emitters. <i>Physical Review B</i> , 2018, 97, .	1.1	15
46	Pure single-photon emission from In(Ga)As QDs in a tunable fiber-based external mirror microcavity. <i>Quantum Science and Technology</i> , 2018, 3, 034009.	2.6	10
47	Probing different regimes of strong field light-matter interaction with semiconductor quantum dots and few cavity photons. <i>New Journal of Physics</i> , 2016, 18, 123031.	1.2	9
48	Characterization of spectral diffusion by slow-light photon-correlation spectroscopy. <i>Physical Review B</i> , 2020, 101, .	1.1	9
49	Single-photon light-emitting diodes based on preselected quantum dots using a deterministic lithography technique. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	8
50	Achieving stable fiber coupling of quantum dot telecom C-band single-photons to an SOI photonic device. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	8
51	Integrated Optoelectronic Devices Using Lab-on-a-Fiber Technology. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	8
52	Tuning emission energy and fine structure splitting in quantum dots emitting in the telecom O-band. <i>AIP Advances</i> , 2019, 9, .	0.6	7
53	Controllable Delay and Polarization Routing of Single Photons. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900057.	1.8	5
54	Realization of a tunable fiber-based double cavity system. <i>Physical Review B</i> , 2020, 102, .	1.1	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.	1.3	4
56	Spatial and Fourier-space distribution of confined optical Tamm modes. New Journal of Physics, 2016, 18, 083018.	1.2	3
57	Semiconductor Quantum Dots for Integrated Quantum Photonics (Adv. Quantum Technol. 9/2019). Advanced Quantum Technologies, 2019, 2, 1970053.	1.8	3
58	Confined Visible Optical Tamm States. Journal of Electronic Materials, 2016, 45, 2307-2310.	1.0	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, .	1.1	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