

# Luca Sapienza

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2863540/publications.pdf>

Version: 2024-02-01

34  
papers

1,225  
citations

623734

14  
h-index

552781

26  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband, efficient extraction of quantum light by a photonic device comprised of a metallic nano-ring and a gold back reflector. Applied Physics Letters, 2022, 120, 081103.	3.3	7
2	Cavity-enhanced light-matter interaction in Vogel-spiral devices as a platform for quantum photonics. Applied Physics Letters, 2021, 118, .	3.3	12
3	Cavity quantum electro-dynamics with solid-state emitters in aperiodic nano-photonic spiral devices. Applied Physics Letters, 2020, 117, .	3.3	13
4	GaAs droplet quantum dots with nanometer-thin capping layer for plasmonic applications. Nanotechnology, 2018, 29, 205602.	2.6	8
5	Combined metallic nano-rings and solid-immersion lenses for bright emission from single InAs/GaAs quantum dots. Applied Physics Letters, 2018, 112, 221102.	3.3	7
6	Cryogenic photoluminescence imaging system for nanoscale positioning of single quantum emitters. Review of Scientific Instruments, 2017, 88, 023116.	1.3	48
7	Optical sensing with Anderson-localised light. Applied Physics Letters, 2017, 111, .	3.3	7
8	Heterogeneous integration for on-chip quantum photonic circuits with single quantum dot devices. Nature Communications, 2017, 8, 889.	12.8	185
9	Anderson Localization of Visible Light on a Nanophotonic Chip. ACS Photonics, 2017, 4, 2274-2280.	6.6	21
10	Metallic nanorings for broadband, enhanced extraction of light from solid-state emitters. Applied Physics Letters, 2017, 111, .	3.3	16
11	Combined atomic force microscopy and photoluminescence imaging to select single InAs/GaAs quantum dots for quantum photonic devices. Scientific Reports, 2017, 7, 6205.	3.3	15
12	Photoluminescence imaging based nano-positioning of single quantum dots for high-performance single-photon generation. , 2017, , .		0
13	Metallic Nano-Rings for Free-Space Extraction of Light from Single Quantum Dots. , 2017, , .		0
14	Magneto-optical spectroscopy of single charge-tunable InAs/GaAs quantum dots emitting at telecom wavelengths. Physical Review B, 2016, 93, .	3.2	8
15	Bright and pure single-photon emission and efficient light confinement on a chip. , 2016, , .		0
16	Nanoscale optical positioning of single quantum dots for bright and pure single-photon emission. Nature Communications, 2015, 6, 7833.	12.8	231
17	Nanoscale Optical Positioning of Single Quantum Dots for Efficient Quantum Photonic Devices. , 2015, , .		0
18	Quantum dot single photon sources: Blinking and deterministic device fabrication. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
19	Spectral broadening and shaping of nanosecond pulses: toward shaping of single photons from quantum emitters. Optics Letters, 2014, 39, 5677.	3.3	13
20	Statistics of decay dynamics of quantum emitters in disordered photonic-crystal waveguides. , 2014, , .		0
21	Statistical measurements of quantum emitters coupled to Anderson-localized modes in disordered photonic-crystal waveguides. Optics Express, 2014, 22, 30992.	3.4	20
22	Exciton fine-structure splitting of telecom-wavelength single quantum dots: Statistics and external strain tuning. Physical Review B, 2013, 88, .	3.2	17
23	Statistical Theory of a Quantum Emitter Strongly Coupled to Anderson-Localized Modes. Physical Review Letters, 2012, 108, 113901.	7.8	36
24	Bright Single-Photon Emission From a Quantum Dot in a Circular Bragg Grating Microcavity. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1711-1721.	2.9	41
25	Probing the statistical properties of Anderson localization with quantum emitters. New Journal of Physics, 2011, 13, 063044.	2.9	40
26	Quantum Electrodynamics with Semiconductor Quantum Dots Coupled to Anderson-localized Random Cavities. , 2011, , .		0
27	Extraction of the $\hat{\Gamma}^2$ -factor for single quantum dots coupled to a photonic crystal waveguide. Applied Physics Letters, 2010, 96, .	3.3	50
28	Cavity Quantum Electrodynamics with Anderson-Localized Modes. Science, 2010, 327, 1352-1355.	12.6	293
29	Surface plasmon excitation on magnetoactive materials. Physical Review B, 2009, 79, .	3.2	13
30	Electrically Injected Cavity Polaritons. Physical Review Letters, 2008, 100, 136806.	7.8	71
31	Stark-tunable electroluminescence from cavity polariton states. Applied Physics Letters, 2008, 93, 171105.	3.3	11
32	Photovoltaic probe of cavity polaritons in a quantum cascade structure. Applied Physics Letters, 2007, 90, 201101.	3.3	32
33	Tight-Binding Model for Spontaneous Magnetism of Quantum Dot Lattices. Physica Scripta, 2003, 68, 74-78.	2.5	5
34	Thermal release tape-assisted semiconductor membrane transfer process for hybrid photonic devices embedding quantum emitters. Materials for Quantum Technology, 0, , .	3.1	5