Francesco Marsili

List of Publications by Year in descending order

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41 papers	2,979 citations	236925 25 h-index	434195 31 g-index
42 all docs	42 docs citations	42 times ranked	2803 citing authors

#	Article	IF	Citations
1	Demonstration of sub-3 ps temporal resolution with a superconducting nanowire single-photon detector. Nature Photonics, 2020, 14, 250-255.	31.4	285
2	Optically Addressing Single Rare-Earth Ions in a Nanophotonic Cavity. Physical Review Letters, 2018, 121, 183603.	7.8	129
3	Ultra-sensitive mid-infrared emission spectrometer with sub-ns temporal resolution. Optics Express, 2018, 26, 14859.	3.4	42
4	Mid-infrared Laser-Induced Fluorescence with Nanosecond Time Resolution Using a Superconducting Nanowire Single-Photon Detector: New Technology for Molecular Science. Accounts of Chemical Research, 2017, 50, 1400-1409.	15.6	51
5	Nanophotonic rare-earth quantum memory with optically controlled retrieval. Science, 2017, 357, 1392-1395.	12.6	221
6	High-Operating-Temperature Superconducting Nanowire Single Photon Detectors based on Magnesium Diboride. , 2017, , .		3
7	Recent research trends for superconducting detectors: introduction for the special issue â€˜Focus on Superconducting Dectectorsâ€™. Superconductor Science and Technology, 2016, 29, 050301.	3.5	4
8	Quantum teleportation across a metropolitan fibre network. Nature Photonics, 2016, 10, 676-680.	31.4	184
9	Superconducting Nanowire Architectures for Single Photon Detection. Quantum Science and Technology, 2016, , 3-30.	2.6	6
10	High-Operating-Temperature Superconducting Nanowire Single Photon Detectors. , 2016, , .		3
11	Telecom-Wavelength Atomic Quantum Memory in Optical Fiber for Heralded Polarization Qubits. Physical Review Letters, 2015, 115, 140501.	7.8	46
12	Large-area NbN superconducting nanowire avalanche photon detectors with saturated detection efficiency. Proceedings of SPIE, 2015, , .	0.8	0
13	Quantum storage of entangled telecom-wavelength photons in an erbium-doped optical fibre. Nature Photonics, 2015, 9, 83-87.	31.4	190
14	On-chip detection of non-classical light by scalable integration of single-photon detectors. Nature Communications, 2015, 6, 5873.	12.8	238
15	Saturated Photon Detection Efficiency in NbN Superconducting Photon Detectors. , 2015, , .		1
16	Superconducting Nanowire Detectors Based on MgB2. , 2015, , .		0
17	Photon-number-resolving superconducting nanowire detectors. Superconductor Science and Technology, 2015, 28, 104001.	3.5	39
18	Review of superconducting nanowire single-photon detector system design options and demonstrated performance. Optical Engineering, 2014, 53, 081907.	1.0	119

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19	Quantum teleportation from a telecom-wavelength photon to a solid-state quantum memory. Nature Photonics, 2014, 8, 775-778.	31.4	208
20	Efficient Single Photon Detection From 0.5 To 5 Micron Wavelength. , 2012, , .		2
21	Cavity-Integrated Ultra-Narrow Superconducting Nanowire Single-Photon Detector Based on a Thick Niobium Nitride Film. , 2012, , .		2
22	Afterpulsing and instability in superconducting nanowire avalanche photodetectors. Applied Physics Letters, 2012, 100, .	3.3	43
23	Timing performance of 30-nm-wide superconducting nanowire avalanche photodetectors. Applied Physics Letters, 2012, 100, .	3.3	31
24	A three-dimensional, polarization-insensitive superconducting nanowire avalanche photodetector. Applied Physics Letters, 2012, 101, .	3.3	114
25	Efficient Single Photon Detection from 500 nm to 5 Î¼m Wavelength. Nano Letters, 2012, 12, 4799-4804.	9.1	155
26	Single Photon Counting from Individual Nanocrystals in the Infrared. Nano Letters, 2012, 12, 2953-2958.	9.1	48
27	Single-Photon Detectors Based on Ultranarrow Superconducting Nanowires. Nano Letters, 2011, 11, 2048-2053.	9.1	167
28	Cavity-Enhanced Nanowire Superconducting Single Photon Detectors on GaAs. , 2011, , .		0
29	Electrothermal simulation of superconducting nanowire avalanche photodetectors. Applied Physics Letters, 2011, 98, .	3.3	30
30	Nanowire superconducting single-photon detectors on GaAs for integrated quantum photonic applications. Applied Physics Letters, 2010, 97, .	3.3	67
31	Nanoscale Optical Detector with Single-Photon and Multiphoton Sensitivity. Nano Letters, 2010, 10, 2977-2981.	9.1	43
32	Mid-Infrared Single-Photon Detection Using Superconducting Nanowires Integrated with Nano-Antennae. , 2010, , .		0
33	NbN nanowire superconducting single photon detectors fabricated on MgO substrates. Journal of Modern Optics, 2009, 56, 395-400.	1.3	2
34	High quality superconducting NbN thin films on GaAs. Superconductor Science and Technology, 2009, 22, 095013.	3.5	28
35	Single- and multi-photon imaging with a nanoscale detector. , 2009, , .		1
36	Superconducting parallel nanowire detector with photon number resolving functionality. Journal of Modern Optics, 2009, 56, 334-344.	1.3	18

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37	Counting Photons Using a Nanonetwork of Superconducting Wires. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 120-122.	0.3	0
38	Characterization of Superconducting Single Photon Detectors Fabricated on MgO Substrates. Journal of Low Temperature Physics, 2008, 151, 580-584.	1.4	4
39	Superconducting nanowire photon-number-resolving detector at telecommunication wavelengths. Nature Photonics, 2008, 2, 302-306.	31.4	351
40	High efficiency NbN nanowire superconducting single photon detectors fabricated on MgO substrates from a low temperature process. Optics Express, 2008, 16, 3191.	3.4	61
41	Single-Photon Detection System for Quantum Optics Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 944-951.	2.9	37