

Margherita Mazzera

List of Publications by Year in descending order

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42
papers

1,279
citations

393982

19
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344852

36
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42
all docs

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docs citations

42
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid State Spin-Wave Quantum Memory for Time-Bin Qubits. <i>Physical Review Letters</i> , 2015, 114, 230501.	2.9	153
2	Challenging local realism with human choices. <i>Nature</i> , 2018, 557, 212-216.	13.7	136
3	Photonic quantum state transfer between a cold atomic gas and a crystal. <i>Nature</i> , 2017, 551, 485-488.	13.7	109
4	Quantum Storage of Frequency-Multiplexed Heralded Single Photons. <i>Physical Review Letters</i> , 2019, 123, 080502.	2.9	81
5	Low-temperature In ₂ O ₃ nanowire luminescence properties as a function of oxidizing thermal treatments. <i>Nanotechnology</i> , 2007, 18, 355707.	1.3	78
6	Quantum Storage of Heralded Single Photons in a Praseodymium-Doped Crystal. <i>Physical Review Letters</i> , 2014, 112, 040504.	2.9	65
7	Solid-State Source of Nonclassical Photon Pairs with Embedded Multimode Quantum Memory. <i>Physical Review Letters</i> , 2017, 118, 210502.	2.9	65
8	Laser-written integrated platform for quantum storage of heralded single photons. <i>Optica</i> , 2018, 5, 934.	4.8	63
9	Integrated Optical Memory Based on Laser-Written Waveguides. <i>Physical Review Applied</i> , 2016, 5, .	1.5	58
10	Quantum Correlations between Single Telecom Photons and a Multimode On-Demand Solid-State Quantum Memory. <i>Physical Review X</i> , 2017, 7, .	2.8	56
11	Insights into Microstructural Features Governing Ce ³⁺ Luminescence Efficiency in Sol-gel Silica Glasses. <i>Chemistry of Materials</i> , 2006, 18, 6178-6185.	3.2	44
12	Large-area self-catalysed and selective growth of ZnO nanowires. <i>Nanotechnology</i> , 2008, 19, 325603.	1.3	36
13	Storage of up-converted telecom photons in a doped crystal. <i>New Journal of Physics</i> , 2014, 16, 113021.	1.2	36
14	Cavity enhanced telecom heralded single photons for spin-wave solid state quantum memories. <i>New Journal of Physics</i> , 2016, 18, 123013.	1.2	32
15	Time Entanglement between a Photon and a Spin Wave in a Multimode Solid-State Quantum Memory. <i>Physical Review Letters</i> , 2019, 123, 030501.	2.9	32
16	Entanglement between a Telecom Photon and an On-Demand Multimode Solid-State Quantum Memory. <i>Physical Review Letters</i> , 2021, 127, 210502.	2.9	31
17	Gd-incorporation and luminescence properties in sol-gel silica glasses. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3817-3823.	1.5	28
18	Spectroscopic investigation and crystal field modelling of Dy ³⁺ and Er ³⁺ energy levels in yttrium aluminium borate (YAB) single crystals. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6245-6255.	0.7	26

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19	Growth of SnO ₂ nanocrystals controlled by erbium doping in silica. <i>Nanotechnology</i> , 2006, 17, 4031-4036.	1.3	26
20	Frequency-bin entanglement of ultra-narrow band non-degenerate photon pairs. <i>Quantum Science and Technology</i> , 2018, 3, 014007.	2.6	19
21	Evidences of Rare-Earth Nanophases Embedded in Silica Using Vibrational Spectroscopy. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1361-1369.	1.2	14
22	Eu Incorporation into Sol-gel Silica for Photonic Applications: Spectroscopic and TEM Evidences of β -Quartz and Eu Pyrosilicate Nanocrystal Growth. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26831-26848.	1.5	12
23	Storage and analysis of light-matter entanglement in a fiber-integrated system. <i>Science Advances</i> , 2022, 8, .	4.7	12
24	Spectral-hole memory for light at the single-photon level. <i>Physical Review A</i> , 2016, 93, .	1.0	11
25	High resolution Fourier transform spectroscopy and crystal-field analysis in Tm,Ho:BaY ₂ F ₈ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 248-251.	0.8	8
26	Crystal-field spectroscopy of Eu ³⁺ doped silica glasses. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1916-1920.	1.5	7
27	Hyperfine structure of Ho ³⁺ levels and electron-phonon coupling in YPO ₄ single crystals. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 205501.	0.7	7
28	Optical Spectroscopy of YPO ₄ Single Crystals Doped with Ho ³⁺ . <i>Spectroscopy Letters</i> , 2010, 43, 382-388.	0.5	6
29	Spectroscopic analysis of Pr ³⁺ crystal-field transitions in YAl ₃ (BO ₃) ₄ . <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 603-617.	1.1	5
30	FTIR spectroscopy to investigate the role of fluorine on the optical properties of pure and rare earth-doped sol-gel silica. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 564-567.	1.5	4
31	Infrared absorption spectra of pure and doped YAl ₃ (BO ₃) ₄ single crystals. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 273-277.	1.1	4
32	Vibronic Transitions of Trivalent Er and Ce in BaY ₂ F ₈ Single Crystals. <i>Radiation Effects and Defects in Solids</i> , 2003, 158, 241-245.	0.4	3
33	Narrow line spectra induced by Er ³⁺ in silica glasses containing SnO ₂ nanocrystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 572-575.	0.8	3
34	Electron-phonon interaction in Tm ³⁺ , Ho ³⁺ , and Dy ³⁺ doped BaY ₂ F ₈ single crystals. <i>Optical Materials</i> , 2009, 31, 1366-1369.	1.7	3
35	Synthesis of high purity, stoichiometric controlled, TeO ₂ powders. <i>Materials Chemistry and Physics</i> , 2012, 133, 804-807.	2.0	3
36	Off-stoichiometry determination of β -VI bulk crystals. <i>Journal of Crystal Growth</i> , 2008, 310, 2080-2084.	0.7	2

#	ARTICLE	IF	CITATIONS
37	Plasma Treatment of 3C-SiC Surfaces. Materials Science Forum, 0, 740-742, 287-290.	0.3	1
38	Correction to "Evidences of Rare-Earth Nanophases Embedded in Silica Using Vibrational Spectroscopy" Jun 10 1361-1369. IEEE Transactions on Nuclear Science, 2010, 57, 2405-2405.	1.2	0
39	High resolution spectroscopy to investigate impurity traces in YAB single crystals. Crystal Research and Technology, 2011, 46, 755-760.	0.6	0
40	Towards the spin-wave storage of entangled photons in a solid state quantum memory. , 2015, , .		0
41	Fibre-integrated laser-written quantum memory for light-matter entanglement. , 2021, , .		0
42	Entanglement between a telecom photon and a spin-Wave solid-state multimode quantum memory. , 2021, , .		0