

Margherita Mazzera

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,279
citations

394286

19
h-index

345118

36
g-index

42
all docs

42
docs citations

42
times ranked

1320
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Storage and analysis of light-matter entanglement in a fiber-integrated system. Science Advances, 2022, 8, . | 4.7 | 12 |
| 2 | Entanglement between a Telecom Photon and an On-Demand Multimode Solid-State Quantum Memory. Physical Review Letters, 2021, 127, 210502. | 2.9 | 31 |
| 3 | Fibre-integrated laser-written quantum memory for light-matter entanglement. , 2021, , . | | 0 |
| 4 | Entanglement between a telecom photon and a spin-Wave solid-state multimode quantum memory. , 2021, , . | | 0 |
| 5 | Quantum Storage of Frequency-Multiplexed Heralded Single Photons. Physical Review Letters, 2019, 123, 080502. | 2.9 | 81 |
| 6 | Time Entanglement between a Photon and a Spin Wave in a Multimode Solid-State Quantum Memory. Physical Review Letters, 2019, 123, 030501. | 2.9 | 32 |
| 7 | Frequency-bin entanglement of ultra-narrow band non-degenerate photon pairs. Quantum Science and Technology, 2018, 3, 014007. | 2.6 | 19 |
| 8 | Laser-written integrated platform for quantum storage of heralded single photons. Optica, 2018, 5, 934. | 4.8 | 63 |
| 9 | Challenging local realism with human choices. Nature, 2018, 557, 212-216. | 13.7 | 136 |
| 10 | Quantum Correlations between Single Telecom Photons and a Multimode On-Demand Solid-State Quantum Memory. Physical Review X, 2017, 7, . | 2.8 | 56 |
| 11 | Solid-State Source of Nonclassical Photon Pairs with Embedded Multimode Quantum Memory. Physical Review Letters, 2017, 118, 210502. | 2.9 | 65 |
| 12 | Photonic quantum state transfer between a cold atomic gas and a crystal. Nature, 2017, 551, 485-488. | 13.7 | 109 |
| 13 | Cavity enhanced telecom heralded single photons for spin-wave solid state quantum memories. New Journal of Physics, 2016, 18, 123013. | 1.2 | 32 |
| 14 | Spectral-hole memory for light at the single-photon level. Physical Review A, 2016, 93, . | 1.0 | 11 |
| 15 | Integrated Optical Memory Based on Laser-Written Waveguides. Physical Review Applied, 2016, 5, . | 1.5 | 58 |
| 16 | Solid State Spin-Wave Quantum Memory for Time-Bin Qubits. Physical Review Letters, 2015, 114, 230501. | 2.9 | 153 |
| 17 | Towards the spin-wave storage of entangled photons in a solid state quantum memory. , 2015, , . | | 0 |
| 18 | Storage of up-converted telecom photons in a doped crystal. New Journal of Physics, 2014, 16, 113021. | 1.2 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Quantum Storage of Heralded Single Photons in a Praseodymium-Doped Crystal. <i>Physical Review Letters</i> , 2014, 112, 040504. | 2.9 | 65 |
| 20 | 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 |
| 21 | 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 |
| 22 | Synthesis of high purity, stoichiometric controlled, TeO_2 powders. <i>Materials Chemistry and Physics</i> , 2012, 133, 804-807. | 2.0 | 3 |
| 23 | Crystal-field spectroscopy of Eu^{3+} doped silica glasses. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1916-1920. | 1.5 | 7 |
| 24 | Spectroscopic analysis of Pr^{3+} crystal-field transitions in $\text{YAl}_3(\text{BO}_3)_4$. <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 603-617. | 1.1 | 5 |
| 25 | High resolution spectroscopy to investigate impurity traces in YAB single crystals. <i>Crystal Research and Technology</i> , 2011, 46, 755-760. | 0.6 | 0 |
| 26 | 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 |
| 27 | Optical Spectroscopy of YPO_4 Single Crystals Doped with Ho^{3+} . <i>Spectroscopy Letters</i> , 2010, 43, 382-388. | 0.5 | 6 |
| 28 | Correction to "Evidences of Rare-Earth Nanophases Embedded in Silica Using Vibrational Spectroscopy" Jun 10 1361-1369. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 2405-2405. | 1.2 | 0 |
| 29 | Infrared absorption spectra of pure and doped $\text{YAl}_3(\text{BO}_3)_4$ single crystals. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 273-277. | 1.1 | 4 |
| 30 | Electron-phonon interaction in Tm^{3+} , Ho^{3+} , and Dy^{3+} doped BaY_2F_8 single crystals. <i>Optical Materials</i> , 2009, 31, 1366-1369. | 1.7 | 3 |
| 31 | Off-stoichiometry determination of Lu^{3+} bulk crystals. <i>Journal of Crystal Growth</i> , 2008, 310, 2080-2084. | 0.7 | 2 |
| 32 | Large-area self-catalysed and selective growth of ZnO nanowires. <i>Nanotechnology</i> , 2008, 19, 325603. | 1.3 | 36 |
| 33 | Gd-incorporation and luminescence properties in sol-gel silica glasses. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3817-3823. | 1.5 | 28 |
| 34 | 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 |
| 35 | Low-temperature In_2O_3 nanowire luminescence properties as a function of oxidizing thermal treatments. <i>Nanotechnology</i> , 2007, 18, 355707. | 1.3 | 78 |
| 36 | Growth of SnO_2 nanocrystals controlled by erbium doping in silica. <i>Nanotechnology</i> , 2006, 17, 4031-4036. | 1.3 | 26 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Plasma Treatment of 3C-SiC Surfaces. <i>Materials Science Forum</i> , 0, 740-742, 287-290. | 0.3 | 1 |