# Andrea Fiore

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/12167629/publications.pdf

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| 81 | 2,662 | 172207 | 182168 |
|---|---|---|---|
| papers | citations | 29 h-index | 51 g-index |

| 83 | 83 | 83 | 3320 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integrated near-infrared spectral sensing. Nature Communications, 2022, 13, 103. | 5.8 | 47 |
| 2 | Nearâ€Field Investigation of Luminescent Hyperuniform Disordered Materials. Advanced Optical Materials, 2022, 10, . | 3.6 | 19 |
| 3 | On-site illicit-drug detection with an integrated near-infrared spectral sensor: A proof of concept. Talanta, 2022, 245, 123441. | 2.9 | 23 |
| 4 | Demonstration of atomic force microscopy imaging using an integrated opto-electro-mechanical transducer. Ultramicroscopy, 2021, 230, 113368. | 0.8 | 3 |
| 5 | Microwave-to-optics conversion using a mechanical oscillator in its quantum ground state. Nature Physics, 2020, 16, 69-74. | 6.5 | 182 |
| 6 | Indium Phosphide Membrane Nanophotonic Integrated Circuits on Silicon. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900606. | 0.8 | 33 |
| 7 | Non-Lorentzian Local Density of States in Coupled Photonic Crystal Cavities Probed by Near- and Far-Field Emission. Physical Review Letters, 2020, 124, 123902. | 2.9 | 17 |
| 8 | Mode-field switching of nanolasers. APL Photonics, 2020, 5, . | 3.0 | 3 |
| 9 | On-chip waveguide-coupled opto-electro-mechanical system for nanoscale displacement sensing. APL Photonics, 2020, 5, 026103. | 3.0 | 12 |
| 10 | On-Chip Photocurrent Displacement Sensor Based on a Waveguide-Coupled Nanomechanical Photonic Crystal Cavity. , 2019, , . | | 1 |
| 11 | Dielectrics: Mechanical and Electric Control of Photonic Modes in Random Dielectrics (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock | 11.1 | 0 |
| 12 | Coupled Photonic Crystal Nanocavities as a Tool to Tailor and Control Photon Emission. Ceramics, 2019, 2, 34-55. | 1.0 | 2 |
| 13 | Mechanical and Electric Control of Photonic Modes in Random Dielectrics. Advanced Materials, 2019, 31, 1807274. | 11.1 | 6 |
| 14 | Multimode photonic molecules for advanced force sensing. Optics Express, 2019, 27, 37579. | 1.7 | 5 |
| 15 | Nanomechanical control of optical field and quality factor in photonic crystal structures. Physical Review B, 2018, 97, . | 1.1 | 4 |
| 16 | Generalized Fano lineshapes reveal exceptional points in photonic molecules. Nature Communications, 2018, 9, 396. | 5.8 | 37 |
| 17 | Nano-opto-electro-mechanical systems. Nature Nanotechnology, 2018, 13, 11-18. | 15.6 | 208 |
| 18 | Integrated Optomechanical Displacement Sensor Based on a Photonic Crystal Cavity. , 2018, , . | | 2 |

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|---|---|---|---|
| 19 | Near-field speckle imaging of light localization in disordered photonic systems. Applied Physics Letters, 2017, 110, . | 1.5 | 7 |
| 20 | Control of the electromagnetic field in a cavity by an external perturbation. Proceedings of SPIE, 2017, , . | 0.8 | 4 |
| 21 | Coherent Atom-Phonon Interaction through Mode Field Coupling in Hybrid Optomechanical Systems. Physical Review Letters, 2017, 118, 133603. | 2.9 | 31 |
| 22 | Integrated nano-opto-electro-mechanical sensor for spectrometry and nanometrology. Nature Communications, 2017, 8, 2216. | 5.8 | 41 |
| 23 | Nano-opto-electro-mechanical switch based on a four-waveguide directional coupler. Optics Express, 2017, 25, 10166. | 1.7 | 16 |
| 24 | Integration of Single-Photon Sources and Detectors on GaAs. Photonics, 2016, 3, 55. | 0.9 | 18 |
| 25 | Photon-counting and analog operation of a 24-pixel photon number resolving detector based on superconducting nanowires. Optics Express, 2016, 24, 9067. | 1.7 | 45 |
| 26 | GaAs integrated quantum photonics: Towards compact and multiâ€functional quantum photonic integrated circuits. Laser and Photonics Reviews, 2016, 10, 870-894. | 4.4 | 165 |
| 27 | Photon counting with a 24-pixel SSPD based photon number resolving detector. , 2016, , . | | 1 |
| 28 | Experimental investigation of the detection mechanism in WSi nanowire superconducting single photon detectors. Applied Physics Letters, 2016, 109, . | 1.5 | 18 |
| 29 | Waveguide Superconducting Single- and Few-Photon Detectors on GaAs for Integrated Quantum Photonics. Quantum Science and Technology, 2016, , 61-83. | 1.5 | 1 |
| 30 | Deep-subwavelength imaging of both electric and magnetic localized optical fields by plasmonic campanile nanoantenna. Scientific Reports, 2015, 5, 9606. | 1.6 | 14 |
| 31 | Control of the electromagnetic environment of a quantum emitter by shaping the vacuum field in a coupled-cavity system. Physical Review A, 2015, 91, . | 1.0 | 16 |
| 32 | Tailoring the Photon Hopping by Nearest-Neighbor and Next-Nearest-Neighbor Interaction in Photonic Arrays. ACS Photonics, 2015, 2, 565-571. | 3.2 | 18 |
| 33 | Photon-number-resolving superconducting nanowire detectors. Superconductor Science and Technology, 2015, 28, 104001. | 1.8 | 39 |
| 34 | Ultra-subwavelength phase-sensitive Fano-imaging of localized photonic modes. Light: Science and Applications, 2015, 4, e326-e326. | 7.7 | 29 |
| 35 | Waveguide Nanowire Superconducting Single-Photon Detectors Fabricated on GaAs and the Study of Their Optical Properties. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-10. | 1.9 | 188 |
| 36 | Series-Nanowire Photon Number Resolving Detector Counting up to 24 Photons. , 2015, , . | | 2 |

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|---|---|---|---|
| 37 | Tuning and imaging random photonic modes. , 2015, , . | | 0 |
| 38 | Superconducting series nanowire detector counting up to twelve photons. Optics Express, 2014, 22, 3475. | 1.7 | 36 |
| 39 | Dynamically controlling the emission of single excitons in photonic crystal cavities. Nature Communications, 2014, 5, 5786. | 5.8 | 31 |
| 40 | Engineering of light confinement in strongly scattering disordered media. Nature Materials, 2014, 13, 720-725. | 13.3 | 98 |
| 41 | Design and Optical Properties of Electromechanical Double-Membrane Photonic Crystal Cavities. IEEE Journal of Quantum Electronics, 2014, 50, 404-414. | 1.0 | 11 |
| 42 | Ultrafast non-local control of spontaneous emission. Nature Nanotechnology, 2014, 9, 886-890. | 15.6 | 59 |
| 43 | Coupling of single quantum dots to photonic crystal cavities investigated by low-temperature scanning near-field optical microscopy. Physical Review B, 2013, 88, . | 1.1 | 4 |
| 44 | Ultrasensitive<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-Photon Interferometric Autocorrelator. Physical Review Letters, 2013, 110, 133605. | 2.9 | 17 |
| 45 | Integrated autocorrelator based on superconducting nanowires. Optics Express, 2013, 21, 11162. | 1.7 | 21 |
| 46 | Multimodal strong coupling of photonic crystal cavities of dissimilar size. Applied Physics Letters, 2012, 100, 081107. | 1.5 | 8 |
| 47 | Proposal for a superconducting photon number resolving detector with large dynamic range. Optics Express, 2012, 20, 5017. | 1.7 | 43 |
| 48 | Widely tunable, efficient on-chip single photon sources at telecommunication wavelengths. Optics Express, 2012, 20, 21758. | 1.7 | 32 |
| 49 | Mode tuning of photonic crystal nanocavities by photoinduced non-thermal oxidation. Applied Physics Letters, 2012, 100, 033116. | 1.5 | 27 |
| 50 | Experimental demonstration of a novel superconducting photon-number resolving detector at telecom wavelengths. Proceedings of SPIE, 2012, , . | 0.8 | 0 |
| 51 | Towards linear optical detection with single photon sensitivity at telecom wavelengths. , 2012, , . | | 0 |
| 52 | Enhanced spontaneous emission from quantum dots in short photonic crystal waveguides. Applied Physics Letters, 2012, 100, 061122. | 1.5 | 50 |
| 53 | Simultaneous near field imaging of electric and magnetic field in photonic crystal nanocavities. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 251-255. | 1.0 | 1 |
| 54 | Ideal homoatomic and heteroatomic photonic crystal molecules. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 271-275. | 1.0 | 0 |

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|---|---|---|---|
| 55 | Experimental demonstration of a novel superconducting photon number resolving detector. , 2012, , . | | 1 |
| 56 | Scanning near-field optical microscopy of quantum dots in photonic crystal cavities. Journal of Physics: Conference Series, 2010, 245, 012040. | 0.3 | 2 |
| 57 | Sub-wavelength probing and modification of photonic crystal nano-cavities. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 78-85. | 1.0 | 0 |
| 58 | Nanofluidic control of coupled photonic crystal resonators. Applied Physics Letters, 2010, 96, 141114. | 1.5 | 24 |
| 59 | Mode hybridization in photonic crystal molecules. Applied Physics Letters, 2010, 97, 063101. | 1.5 | 23 |
| 60 | Nanoscale Optical Detector with Single-Photon and Multiphoton Sensitivity. Nano Letters, 2010, 10, 2977-2981. | 4.5 | 43 |
| 61 | Eight-band kâ‹…p calculations of the composition contrast effect on the linear polarization properties of columnar quantum dots. Journal of Applied Physics, 2010, 107, . | 1.1 | 42 |
| 62 | Magnetic Imaging in Photonic Crystal Microcavities. Physical Review Letters, 2010, 105, 123902. | 2.9 | 52 |
| 63 | Tunable homo- and hetero-atomic photonic molecules. , 2010, , . | | 0 |
| 64 | Near-field imaging of coupled photonic-crystal microcavities. Applied Physics Letters, 2009, 94, 151103. | 1.5 | 40 |
| 65 | Ultrafast pulse-pair amplification in InGaAs quantum-dot amplifiers. , 2009, , . | | 0 |
| 66 | Tuning of photonic crystal cavities by controlled removal of locally infiltrated water. Applied Physics Letters, 2009, 95, 173112. | 1.5 | 32 |
| 67 | High quality superconducting NbN thin films on GaAs. Superconductor Science and Technology, 2009, 22, 095013. | 1.8 | 28 |
| 68 | Polarization-sensitive near-field investigation of photonic crystal microcavities. Applied Physics Letters, 2009, 94, 163102. | 1.5 | 29 |
| 69 | Counting Photons Using a Nanonetwork of Superconducting Wires. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 120-122. | 0.2 | 0 |
| 70 | Modeling of gain and phase dynamics in quantum dot amplifiers. Optical and Quantum Electronics, 2008, 40, 217-226. | 1.5 | 6 |
| 71 | Superconducting nanowire photon-number-resolving detector at telecommunication wavelengths. Nature Photonics, 2008, 2, 302-306. | 15.6 | 351 |
| 72 | Controlling the Aspect Ratio of Quantum Dots: From Columnar Dots to Quantum Rods. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1204-1213. | 1.9 | 17 |

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|---|---|---|---|
| 73 | Nonlinear optical tuning of photonic crystal microcavities by near-field probe. Applied Physics Letters, 2008, 93, . | 1.5 | 16 |
| 74 | Spectral tuning and near-field imaging of photonic crystal microcavities. Physical Review B, 2008, 78, . | 1.1 | 60 |
| 75 | Electric Field Dependence of Modulation in Multilayer InAs Quantum Dot Waveguides. , 2007, , . | | 0 |
| 76 | Linear electro-optic coefficient in multilayer self-organized InAs quantum dot structures. , 2007, , . | | 0 |
| 77 | Differential Gain and Gain Compression in Quantum-Dot Lasers. IEEE Journal of Quantum Electronics, 2007, 43, 287-294. | 1.0 | 86 |
| 78 | Linear electro-optic coefficient in multilayer self-organized InAs quantum dot structures. , 2007, , . | | 0 |
| 79 | Polarization dependence study of electroluminescence and absorption from InAsâˆ•GaAs columnar quantum dots. Applied Physics Letters, 2007, 91, . | 1.5 | 39 |
| 80 | Ultrafast gain dynamics in 1.3Î¼m InAsâˆ•GaAs quantum-dot optical amplifiers: The effect of p doping. Applied Physics Letters, 2007, 90, 201103. | 1.5 | 33 |
| 81 | Single-Photon Detection System for Quantum Optics Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 944-951. | 1.9 | 37 |