

Authors	Title
Lixing You, Weijun Zhang and Hao Li	Superconducting nanowire single photon detectors with high efficiency and low dark count rate
Jian-Shun Tang, Yi-Tao Wang and Wei Liu	A bubble-induced ultrastable and robust single-photon emitter in hexagonal boron nitride
Sanjib Ghosh and Timothy C. H. Liew	Dynamical photon blockade
Eugene Machusky	Photonic Holography of Subatomic Space
Josef Blazej, Ivan Prochazka and Jan Kodet	Photon counting instrumentation optimized for laser time transfer applications
Lijun Ma, Xiao Tang and Oliver Slattery	Quantum memory in anti-relaxation coated gas cell
Claire Autebert, Gaëtan Gras, Emna Amri, Matthieu Perrenoud, Misael Caloz, Hugo Zbinden and Félix Bussi�eres	Direct measurement of the recovery time of SNSPDs
Anthony Bennett, Sam Bishop, John Hadden and Diana Huffaker	Room temperature near infra-red quantum emitters in gallium nitride
Maria Gieysztor, Marta Misiaszek, Joscelyn van der Veen and Piotr Kolenderski	Absorption of a heralded single photon by a nitrogen-vacancy center in diamond
Zachary Levine	Simulation of Photon Echoes in Pr:YSO (Yttrium Orthosilicate)
Geiland Porrovecchio, Marek Smid, Robert Kirkwood and Christopher Chunnillall	Traceable standard detector for calibration of single photon detectors and sources at telecom wavelengths
Ivo Straka and Miroslav Je�ek	Quantum signals: shaping temporal correlations and photon statistics
Edward Van Sielegheem, Andreas S�uss, Pierre Boulenc, Maarten Rosmeulen and Chris Van Hoof	A NIR-enhanced silicon BSI SPAD with low sensitivity to process fluctuations and 15 μm pitch
Dong-Hoon Lee, In-Ho Bae, Seongchong Park, Kee-Suk Hong, Hee Su Park and Joseph Steven Borbely	Accuracy Issues in Measurement of Detection Efficiency of Single Photon Avalanche Photodiodes by Direct Comparison with a Photodiode
Beatrice Rodiek, Andreas Schell, Justus Christinck, Hristina Georgieva, Helmuth Hofer, Marco L�opez and Stefan K�uck	Metrological characterization of single-photon sources for radiometric application
Tim Rambo, Amy Conover and Aaron Miller	Two Billion Photons Per Second, One Photon at a Time
Josef Hlou�sek, Ivo Straka and Miroslav Je�ek	Accurate detection of arbitrary photon statistics
Enrico Rebufello, Chiara Marletto, Vlatko Vedral, Salvatore Virzi, Alessio Avella, Fabrizio Piacentini, Marco Gramegna, Ivo Pietro Degiovanni and Marco Genovese	Pseudo-density operator reconstruction: the open time-like curve case
Salvatore Virzi, Enrico Rebufello, Alessio Avella, Fabrizio Piacentini, Marco Gramegna, Ivano Ruo Berchera, Ivo Degiovanni and Marco Genovese	Optimal estimation of entanglement and discord in two-qubit states
Sacha Schwarz, Connor Kapahi, Ruoxuan Xu, Andrew Cameron, Dusan Sarenac, Jean-Philippe MacLean, Katanya Kuntz, David Cory, Thomas Jennewein, Kevin Resch and Dmitry Pushin	Talbot Effect of OAM lattices with single photons
Meryem Benelajla, Elena Kamman and Khaled Karrai	Extreme laser background suppression for resonant fluorescence of a quantum emitter
Longyue Liang, Junsheng Liang, Mingyang Zheng, Xiuping Xie and Qiang Zhang	Compact all-fiber polarization-independent up-conversion single-photon detector
Michael Hofbauer, Bernhard Steindl, Kerstin Schneider-Hornstein and Horst Zimmermann	Thick CMOS Single-Photon Avalanche Diode Optimized for Near Infrared with Integrated Active Quenching Circuit
Ming-Yang Zheng, Quan Yao, Bing Wang, Xiuping Xie and Qiang Zhang	A multi-channel up-conversion single-photon detector at telecom band
Minghan Li, Xingjian Zhang, Wenzhao Liu, Siran Zhao, Bing Bai, Yang Liu, Qi Zhao, Jun Zhang, Xiongfeng Ma, Qiang Zhang, Jingyun Fan and Jianwei Pan	Experimental realization of device-independent quantum randomness expansion
Kee Suk Hong, Hee-Jin Lim, Dong Hoon Lee, Seongchong Park, Kwang-Yong Jeong and Hee Su Park	Realization of single photon sources based on various single emitters
Stefan K�uck, Hristina Georgieva, Marco L�opez, Beatrice Rodiek, Farshid Manoocheri, Geiland Porrovecchio, Marek Smid, Giorgio Brida, Paolo Traina, Toomas K�ubarsepp, Cristina E Giusca, Philip Dolan, Ling Hao, Christopher J. Chunnillall, Timo D�onsberg, Pietro Lombardi, Costanza Toninelli, Benito Al�en, Stephan G�otzinger, Jacopo Forneris, Sven Rodt, Stephan Reitzenstein, Philipp Fuchs, Christoph Becher, Paolo Oliveiro, Michael Jetter, Peter Michler and Simone L. Portalupi	A European effort for the development of single-photon sources as new quantum standards – the SIQUST-project
Hao Jeng, Helen Chrzanowski, Jiri Janousek, Ping Koy Lam and Syed Assad	Adding single photons to an entangled optical state
Marcelo de Almeida	Improving the performance of a solid-state single-photon source through machine learning
Johannes Tiedau, Evan Meyer-Scott, Tim J. Bartley and Christine Silberhorn	Direct calibration of SNSPDs
Timo D�onsberg, Santeri Porrasmaa, Farshid Manoocheri and Erkki Ikonen	Predictable Quantum Efficient Detector based on n-type silicon induced junction photodiodes as a primary standard for low photon flux
Adarsh Prasad, Jakob Hinney, Klemens Hammerer, Sahand Mahmoodian, Samuel Rind, Philipp Schneeweiss, Anders S�orensen, J�urgen Volz and Arno Rauschenbeutel	Generation of strongly correlated photons using atoms weakly coupled to an optical mode
Kyle D Major, E A Hinds and Alex S Clark	Sub-Doppler single photon spectroscopy of rubidium
Alice Meda, Ivano Ruo-Berchera, Marco Genovese, Elena Losero and Alessio Avella	Optimizing quantum enhanced imaging in realistic conditions
Aikaterini Gratsea, Maciej Lewenstein and Alexandre Dauphin	Generation of hybrid maximally entangled states in a one-dimensional quantum walk
Alice Meda, Ivo Pietro Degiovanni, Ivano Ruo-Berchera, Marco Gramegna, Marco Lopez and Stefan Kueck	Detection efficiency calibration of InGaAs/InP single-photon detectors
Jakub Szlachetka, Karolina S�lowik and Piotr Kolenderski	Hong-Ou-Mandel interference at a metasurface
Fabio Acerbi, Nicola Leone, Alberto Gola, Nicola Zorzi, Stefano Azzini, Giorgio Fontana and Lorenzo Pavesi	Structures for integrated photonics quantum random number generators
Ettore Bernardi, Ekaterina Moreva, Paolo Traina, Andrea Sosso, Jacopo Forneris, Sviatoslav Ditalia Tchernij, Ivo Pietro Degiovanni, Valentina Carabelli, Paolo Olivero and Marco Genovese	Bio-Sensing with NV centers in diamonds
Chloe Clear, Ross Schofield, Kyle Major, Jake Iles-Smith, Alex Clark and Dara McCutcheon	Characterising phonon interactions in single molecules for non-classical light sources
Kristen M. Parzuchowski, Alexander Mikhaylov, Michael D. Mazurek, Daniel J. Lum, Martin J. Stevens, Thomas Gerrits, Charles H. Camp Jr. and Ralph Jimenez	Searching for Enhanced Two Photon Absorption of Entangled Photon Pairs
Nicola Massari and Xu Hesong	A Monolithic QRNG based on an array of SPADs
Yassine Oussaiti, Denis Rideau, Jean-Robert Manouvrier and Marco Pala	Behavior and models for quench efficiency in Single-Photon Detection
Gioan Tsi, Luca Mazzarella and John Jeffers	Generalised Photon Subtraction for Heating or Cooling Thermal Light
Cheng Wu, Bing Bai, Yang Liu, Xiaoming Zhang, Meng Yang, Yuan Cao, Jianfeng Wang, Shaohua Zhang, Hongyan Zhou, Xiheng Shi, Xiongfeng Ma, Ji-Gang Ren, Jun Zhang, Cheng-Zhi Peng, Jingyun Fan, Qiang Zhang and Jian-Wei Pan	Random Number Generation with Cosmic Photons
Gioan Tsi, Luca Mazzarella and John Jeffers	Parity Swap Cat-State Comparison Amplifier
Thomas Gerrits, Alan Migdall, Joshua Bienfang, John Lehman, Sae Woo Nam, Jolene Splett, Igor Vayshenker and Jack Wang	Calibration of free-space and fiber-coupled single-photon detectors
Raouia Rhazi	Improvement of NbTiN and NbN thin films for superconducting nanowire single photon detectors in vertical and guided architectures on Silicon

Mack Johnson, Nicola Tyler, Pisu Jiang, Gerardo Villarreal-Garcia, Jorge Barreto, Mark Thompson and Döndü Sahin	Bridging structures to enable realisation of a high performance superconducting nanowire-single photon detector in a ring-cavity system
David Northeast, Dan Dalacu, Khaled Mnaymneh, Joe McKee, Philip Poole, John Weber, Jean Lapointe, Alexander Koujelev, Eric Gloutnay, Andrew Gibson, Stephane Gendron and Robin Williams	Evanescence coupling of quantum dot nanowires with integrated photonic circuits
Philip Dolan, Alex Browning, Cristina Giusca, Christopher Chunnillall, Sarah Fischbach, Stephan Reitzenstein and Alastair Sinclair	Characterization of solid-state single-photon sources for metrological applications
William Dixon, Dara McCutcheon and Thomas Nutz	The Effect of Electron Spin Dephasing on Nuclear Frequency Focusing in Quantum Dots
Emma Pearce, Rupert Oulton and Alex Clark	Fibre photon-pair sources for quantum imaging and spectroscopy
Michael Mazurek, Alexander Mikhaylov, Kristen Parzuchowski, Daniel Lum, L. K. Shalm, Christian Drago, John Sipe, Sae Woo Nam, Marcus Cicerone, Charles Camp, Ralph Jimenez, Thomas Gerrits and Martin Stevens	Using photon statistics to characterize two-photon absorption
Shigehito Miki, Masahiro Yabuno, Shigeyuki Miyajima and Hirotsuka Terai	Research toward realization of NbTiN SSPD imaging array system
Laura Di Sieno, Anurag Behera, Edoardo Ferocino, Davide Contini, Alessandro Torricelli, Sumeet Rohilla, Benedikt Krämer, Felix Koberling, Fabio Acerbi, Alberto Gola, Antonio Pifferi and Alberto Dalla Mora	Large area SiPM and high-throughput timing electronics: how to boost performances of time-domain diffuse optical instruments
Christopher Chunnillall, Geiland Porrovecchio, Robert Starkwood and Marek Šmid	Calibration of free-space single-photon detectors using 10-element transmittance traps
Ivo Pietro Degiovanni, Marco Gramegna, Sébastien Bize, Hansjörg Scherer, Christopher Chunnillall, Stefan Kück, Franck Pereira Dos Santos, Tobias Lindstrom, Felicien Schopfer and Mikael Lassen	The EURAMET European Metrology Network for Quantum Technologies
Sonia Buckley, Jeffrey Chiles, Adam N. McCaughan, Alex N. Tait, Richard P. Mirin, Sae Woo Nam and Jeffrey M. Shainline	High-yield waveguide-integrated superconducting nanowire detectors with saturating internal quantum efficiency
Sonia Buckley, Alex N. Tait, Sae Woo Nam, Richard P. Mirin, Jeffrey M. Shainline and Jeffrey T. Chiles	Optimization of Si emitters for cryogenic light sources
Francesco Martini, Alessandro Gaggero, Francesco Mattioli and Roberto Leoni	Superconducting single photon detectors on 3C silicon carbide
Laura Di Sieno, Alberto Dalla Mora, Edoardo Ferocino, Antonio Pifferi, Alberto Tosi, Enrico Conca, Vincenzo Sesta, Andrea Giudice, Alessandro Ruggeri, Simone Tisa, Alexander Flocke, Bogdan Rosinski, Jean-Marc Dinten, Mathieu Perriolat, David Savéry, Hélène Spourtoche, Simon Arridge, Andrea Farina, Pietro Panizza, Elena Venturini, Peter Gordebeke, Pamela Zolda and Paola Taroni	A multimodal imaging system hosting an innovative photonic module to improve breast cancer diagnosis: the SOLUS project
Jianhui Ma, Huiqin Hu, Yu Chen, Xiuliang Chen, Haifeng Pan and E Wu	Broadband near-infrared frequency upconversion at single photon level
Yuliya Korneeva, Nadezhda Manova, Margaret Polyakova, Eugeny Smirnov, Denis Vodolazov and Alexander Korneev	Prospects of single-photon detection in micron-wide superconducting strips for practical applications
Yuliya Korneeva, Nadezhda Manova, Margaret Polyakova, Eugeny Smirnov, Denis Vodolazov and Alexander Korneev	Physics of single-photon detection in micron-wide superconducting strips
Robin Camphausen, Alvaro Cuevas, Roland Terborg, Luc Duempelmann, Fabian Steinlechner and Valerio Pruneri	Super-resolution phase imaging by detecting entangled photons with a SPAD-array camera
Sabine Wollmann, A Ducuara, X Qiang, J Tasker, X Zhou, J Wang, C Wilkes, T Loke, S O'Gara, L Kling, G Marshall, R Santagati, T Ralph, J Wang, J O'Brien, M Thompson, P Skrzypczyk and J Matthews	Maximisation of Quantum Correlations under Local Filtering Operations
Juan Carlos Loredó, Carlos Antón, Bogdan Reznichenko, Paul Hilaire, Abdelmounaim Harouri, Clement Millet, Helene Ollivier, Niccolò Somaschi, Lorenzo De Santis, Aristide Lemaitre, Isabelle Sagnes, Loic Lanco, Alexia Auffeves, Olivier Krebs and Pascale Senellart	Generating non-classical light in photon-number superpositions
Michael Wayne, Alan Migdall and Joshua Bienfang	High-speed gated thick reach-through silicon SPAD approaches 100 million counts per second
Jerzy Szuniewicz, Konstantin Rusakov and Radek Lapkiewicz	Hybrid intensified single photon camera with adaptive gating
Mano Rahul K Pakalapati, Susan K Earles, Ersoy Subasi and Mano Varun K Pakalapati	Quantum Random Number Generator based on Quantum Jitter of Single Photon Avalanche Photodiode (SPAD)
Michael Grace, Zachary Dutton, Amit Ashok and Saikat Guha	Adaptive Sub-Diffraction Optical Imaging with Limited Prior Information
Enrico Prati, Takahiro Shinada and Takashi Tani	Single atom silicon devices for quantum technologies: from nanoelectronics to optics
Sungwan Cho	Whispering-Gallery-Mode optical resonator with embedded NV-color centers
Lucio Carrara and Adrian Fiergolski	An Optical Interference Suppression Scheme for TCSPC Flash LiDAR Imagers