Momtchil K Peev

List of Publications by Year
in descending order

63 papers	**5,558** citations	304743 **22** h-index
66 all docs	**66** docs citations	**66** times ranked

243625 **44** g-index

3082 citing authors

#	Article	IF	Citations
1	The security of practical quantum key distribution. Reviews of Modern Physics, 2009, 81, 1301-1350.	45.6	2,489
2	Field test of quantum key distribution in the Tokyo QKD Network. Optics Express, 2011, 19, 10387.	3.4	816
3	The SECOQC quantum key distribution network in Vienna. New Journal of Physics, 2009, 11, 075001.	2.9	619
4	Continuousâ€Variable Quantum Key Distribution with Gaussian Modulationâ€"The Theory of Practical Implementations. Advanced Quantum Technologies, 2018, 1, 1800011.	3.9	193
5	Practical quantum key distribution with polarization entangled photons. Optics Express, 2004, 12, 3865.	3.4	178
6	Using quantum key distribution for cryptographic purposes: A survey. Theoretical Computer Science, 2014, 560, 62-81.	0.9	116
7	Quantum Key Distribution. ACM Computing Surveys, 2021, 53, 1-41.	23.0	100
8	OUTLINE OF THE SECOQC QUANTUM-KEY-DISTRIBUTION NETWORK IN VIENNA. International Journal of Quantum Information, 2008, 06, 209-218.	1.1	91
9	Space-quest, experiments with quantum entanglement in space. Europhysics News, 2009, 40, 26-29.	0.3	77
10	Toward the Integration of CV Quantum Key Distribution in Deployed Optical Networks. IEEE Photonics Technology Letters, 2018, 30, 650-653.	2.5	71
11	Security of trusted repeater quantum key distribution networks. Journal of Computer Security, 2010, 18, 61-87.	0.8	66
12	Quantum metropolitan optical network based on wavelength division multiplexing. Optics Express, 2014, 22, 1576.	3.4	66
13	The Engineering of Software-Defined Quantum Key Distribution Networks. IEEE Communications Magazine, 2019, 57, 20-26.	6.1	64
14	Wigner-Weyl Formalisms for Toroidal Geometries. Annals of Physics, 1994, 230, 21-51.	2.8	45
15	Pilot-assisted intradyne reception for high-speed continuous-variable quantum key distribution with true local oscillator. Quantum - the Open Journal for Quantum Science, 0, 3, 193.	0.0	43
16	Hybrid Conventional and Quantum Security for Software Defined and Virtualized Networks. Journal of Optical Communications and Networking, 2017, 9, 819.	4.8	38
17	Space QUEST mission proposal: experimentally testing decoherence due to gravity. New Journal of Physics, 2018, 20, 063016.	2.9	36
18	A Novel Approach to Quality-of-Service Provisioning in Trusted Relay Quantum Key Distribution Networks. IEEE/ACM Transactions on Networking, 2020, 28, 168-181.	3.8	32

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19	A Simple and Robust Method for Estimating Afterpulsing in Single Photon Detectors. Journal of Lightwave Technology, 2015, 33, 3098-3107.	4.6	31
20	The SECOQC Quantum-Key-Distribution Network in Vienna. , 2009, , .		31
21	Modelling the degradation of low concentration pollutants in membrane bioreactors. Water Science and Technology, 2004, 50, 209-218.	2.5	29
22	Virtual Network Function Deployment and Service Automation to Provide End-to-End Quantum Encryption. Journal of Optical Communications and Networking, 2018, 10, 421.	4.8	28
23	Entanglement Distribution in Optical Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 37-48.	2.9	27
24	Long-Time Evolution of Semiclassical States in Anharmonic Potentials. Physical Review Letters, 1995, 75, 990-993.	7.8	22
25	A NOVEL PROTOCOL-AUTHENTICATION ALGORITHM RULING OUT A MAN-IN-THE MIDDLE ATTACK IN QUANTUM CRYPTOGRAPHY. International Journal of Quantum Information, 2005, 03, 225-231.	1.1	22
26	Quantum interference between a single-photon Fock state and a coherent state. Optics Communications, 2011, 284, 1907-1912.	2.1	17
27	Attacks on quantum key distribution protocols that employ non-ITS authentication. Quantum Information Processing, 2016, 15, 327-362.	2.2	16
28	A low-complexity heterodyne CV-QKD architecture. , 2017, , .		16
29	Identification and Classification of Iridescent Glass Artifacts with XRF and SEM/EDX. Mikrochimica Acta, 2000, 133, 151-157.	5.0	15
30	Iridescent Art Nouveau glass â€" IBA and XPS for the characterisation of thin iridescent layers. Nuclear Instruments & Methods in Physics Research B, 2001, 181, 698-702.	1.4	15
31	Quantum cryptography networks in support of path verification in service function chains. Journal of Optical Communications and Networking, 2020, 12, B9.	4.8	11
32	Modelling the degradation of micropollutants in wastewater: parameter estimation and application to pilot (laboratory-scale) MBR data in the case of 2,6-NDSA and BTSA. Water Science and Technology, 2009, 59, 149-157.	2.5	9
33	Worldwide standardization activity for quantum key distribution. , 2014, , .		9
34	Demonstration of Software Defined Network Services Utilizing Quantum Key Distribution Fully Integrated with Standard Telecommunication Network. Quantum Reports, 2020, 2, 453-458.	1.3	9
35	Tokyo QKD Network and the evolution to Secure Photonic Network. , 2011, , .		8
36	RESPONSE TO "VULNERABILITY OF 'A NOVEL PROTOCOL-AUTHENTICATION ALGORITHM RULING OUT A MAN-IN-THE-MIDDLE ATTACK IN QUANTUM CRYPTOGRAPHY'". International Journal of Quantum Information, 2009, 07, 1401-1407.	1.1	7

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37	On the optimality of individual entangling-probe attacks against BB84 quantum key distribution. European Physical Journal D, 2008, 46, 395-406.	1.3	6
38	Security Processor with Quantum Key Distribution. , 2008, , .		6
39	Quantum interference of photons in simple networks. Quantum Information Processing, 2013, 12, 1915-1945.	2.2	6
40	GMPLS network control plane enabling quantum encryption in end-to-end services. , 2017, , .		6
41	A flexible continuous-variable QKD system using off-the-shelf components. , 2017, , .		6
42	Experimental evaluation of the impairments on a QKD system in a 20-channel WDM co-existence scheme. , 2017, , .		5
43	VPN Service Provisioning via Virtual Router Deployment and Quantum Key Distribution. , 2018, , .		5
44	New intensity and visibility aspects of a double-loop neutron interferometer. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, 345-350.	1.4	4
45	Practical quantum key distribution with polarization entangled photons. , 0, , .		4
46	Vanishing integral relations and expectation values for Bloch functions in finite domains. European Physical Journal B, 2007, 59, 519-525.	1.5	3
47	Micropollutant Degradation in Wastewater Treatment: Experimental Parameter Estimation for an Extended Biokinetic Model. Water, Air, and Soil Pollution, 2010, 206, 69-81.	2.4	3
48	High-Rate Continuous-Variables Quantum Key Distribution with Piloted-Disciplined Local Oscillator. , 2017, , .		3
49	Long-Time Evolution of Semiclassical States in Anharmonic Potentials. Physical Review Letters, 1995, 75, 3375-3375.	7.8	2
50	Semiclassical mechanics in one dimension: II. Approximate matrix elements. Journal of Physics A, 1998, 31, 2227-2239.	1.6	2
51	Semiclassical mechanics of periodic motion: I. General scheme. Journal of Physics A, 1998, 31, 2197-2225.	1.6	2
52	Effect of double pair emission to entanglement based QKD. , 2007, , .		2
53	Parameter Estimation in Biokinetic Degradation Models in Wastewater Treatmentâ€"A Novel Approach Relevant for Micropollutant Removal. Water, Air, and Soil Pollution, 2009, 196, 89-99.	2.4	2
54	Precise Noise Calibration for CV-QKD. , 2019, , .		2

#	Article	IF	Citations
55	Generating relations for reducing matrices. IV. Subduced representations. Journal of Mathematical Physics, 1989, 30, 9-17.	1.1	1
56	Symmetries in magnetic phase transitions: I. The Landau-Ginzburg-Wilson Hamiltonian. Journal of Physics A, 1990, 23, 4399-4413.	1.6	1
57	Raman scattering study of crystal perfection of MOVPE-grown GaAs. Semiconductor Science and Technology, 1993, 8, 179-184.	2.0	1
58	Prospects of CV-QKD systems limited by commercial telecom equipment. , 2017, , .		1
59	Similarity transformations of irreducible corepresentations in Wigner canonical form. Journal of Mathematical Physics, 1990, 31, 1304-1309.	1.1	0
60	Topological interference in nonlinear bounded systems. International Journal of Theoretical Physics, 1995, 34, 1667-1679.	1.2	0
61	SECOQC: Major results, the QKD-Network Prototype in Vienna. , 2009, , .		0
62	Quantum cryptography and authentication with low key-consumption. Proceedings of SPIE, 2011, , .	0.8	0
63	Entanglement generation and routing in optical networks. , 2014, , .		0