# Momtchil K Peev

List of Publications by Year
in descending order



| 63 | 5,558 | 304743 22 | 243625 44 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 66 | 66 | 66 | 3082 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Quantum Key Distribution. ACM Computing Surveys, 2021, 53, 1-41. | 23.0 | 100 |
| 2 | 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 |
| 3 | 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 |
| 4 | Quantum cryptography networks in support of path verification in service function chains. Journal of Optical Communications and Networking, 2020, 12, B9. | 4.8 | 11 |
| 5 | The Engineering of Software-Defined Quantum Key Distribution Networks. IEEE Communications Magazine, 2019, 57, 20-26. | 6.1 | 64 |
| 6 | Precise Noise Calibration for CV-QKD. , 2019, , . | | 2 |
| 7 | Toward the Integration of CV Quantum Key Distribution in Deployed Optical Networks. IEEE Photonics Technology Letters, 2018, 30, 650-653. | 2.5 | 71 |
| 8 | 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 |
| 9 | Space QUEST mission proposal: experimentally testing decoherence due to gravity. New Journal of Physics, 2018, 20, 063016. | 2.9 | 36 |
| 10 | Continuousâ€Variable Quantum Key Distribution with Gaussian Modulationâ€”The Theory of Practical Implementations. Advanced Quantum Technologies, 2018, 1, 1800011. | 3.9 | 193 |
| 11 | VPN Service Provisioning via Virtual Router Deployment and Quantum Key Distribution. , 2018, , . | | 5 |
| 12 | Experimental evaluation of the impairments on a QKD system in a 20-channel WDM co-existence scheme. , 2017, , . | | 5 |
| 13 | Hybrid Conventional and Quantum Security for Software Defined and Virtualized Networks. Journal of Optical Communications and Networking, 2017, 9, 819. | 4.8 | 38 |
| 14 | A low-complexity heterodyne CV-QKD architecture. , 2017, , . | | 16 |
| 15 | High-Rate Continuous-Variables Quantum Key Distribution with Piloted-Disciplined Local Oscillator. , 2017, , . | | 3 |
| 16 | Prospects of CV-QKD systems limited by commercial telecom equipment. , 2017, , . | | 1 |
| 17 | GMPLS network control plane enabling quantum encryption in end-to-end services. , 2017, , . | | 6 |
| 18 | A flexible continuous-variable QKD system using off-the-shelf components. , 2017, , . | | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Attacks on quantum key distribution protocols that employ non-ITS authentication. Quantum Information Processing, 2016, 15, 327-362. | 2.2 | 16 |
| 20 | A Simple and Robust Method for Estimating Afterpulsing in Single Photon Detectors. Journal of Lightwave Technology, 2015, 33, 3098-3107. | 4.6 | 31 |
| 21 | Entanglement Distribution in Optical Networks. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 37-48. | 2.9 | 27 |
| 22 | Worldwide standardization activity for quantum key distribution. , 2014, , . | | 9 |
| 23 | Quantum metropolitan optical network based on wavelength division multiplexing. Optics Express, 2014, 22, 1576. | 3.4 | 66 |
| 24 | Using quantum key distribution for cryptographic purposes: A survey. Theoretical Computer Science, 2014, 560, 62-81. | 0.9 | 116 |
| 25 | Entanglement generation and routing in optical networks. , 2014, , . | | 0 |
| 26 | Quantum interference of photons in simple networks. Quantum Information Processing, 2013, 12, 1915-1945. | 2.2 | 6 |
| 27 | Field test of quantum key distribution in the Tokyo QKD Network. Optics Express, 2011, 19, 10387. | 3.4 | 816 |
| 28 | Tokyo QKD Network and the evolution to Secure Photonic Network. , 2011, , . | | 8 |
| 29 | Quantum cryptography and authentication with low key-consumption. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 30 | Quantum interference between a single-photon Fock state and a coherent state. Optics Communications, 2011, 284, 1907-1912. | 2.1 | 17 |
| 31 | 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 |
| 32 | Security of trusted repeater quantum key distribution networks. Journal of Computer Security, 2010, 18, 61-87. | 0.8 | 66 |
| 33 | 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 |
| 34 | SECOQC: Major results, the QKD-Network Prototype in Vienna. , 2009, , . | | 0 |
| 35 | 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 |
| 36 | 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 |

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| 37 | The security of practical quantum key distribution. Reviews of Modern Physics, 2009, 81, 1301-1350. | 45.6 | 2,489 |
| 38 | The SECOQC quantum key distribution network in Vienna. New Journal of Physics, 2009, 11, 075001. | 2.9 | 619 |
| 39 | Space-quest, experiments with quantum entanglement in space. Europhysics News, 2009, 40, 26-29. | 0.3 | 77 |
| 40 | The SECOQC Quantum-Key-Distribution Network in Vienna. , 2009, , . | | 31 |
| 41 | On the optimality of individual entangling-probe attacks against BB84 quantum key distribution. European Physical Journal D, 2008, 46, 395-406. | 1.3 | 6 |
| 42 | Security Processor with Quantum Key Distribution. , 2008, , . | | 6 |
| 43 | OUTLINE OF THE SECOQC QUANTUM-KEY-DISTRIBUTION NETWORK IN VIENNA. International Journal of Quantum Information, 2008, 06, 209-218. | 1.1 | 91 |
| 44 | Effect of double pair emission to entanglement based QKD. , 2007, , . | | 2 |
| 45 | Vanishing integral relations and expectation values for Bloch functions in finite domains. European Physical Journal B, 2007, 59, 519-525. | 1.5 | 3 |
| 46 | 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 |
| 47 | Modelling the degradation of low concentration pollutants in membrane bioreactors. Water Science and Technology, 2004, 50, 209-218. | 2.5 | 29 |
| 48 | 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 |
| 49 | Practical quantum key distribution with polarization entangled photons. Optics Express, 2004, 12, 3865. | 3.4 | 178 |
| 50 | 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 |
| 51 | Identification and Classification of Iridescent Glass Artifacts with XRF and SEM/EDX. Mikrochimica Acta, 2000, 133, 151-157. | 5.0 | 15 |
| 52 | Semiclassical mechanics in one dimension: II. Approximate matrix elements. Journal of Physics A, 1998, 31, 2227-2239. | 1.6 | 2 |
| 53 | Semiclassical mechanics of periodic motion: I. General scheme. Journal of Physics A, 1998, 31, 2197-2225. | 1.6 | 2 |
| 54 | Topological interference in nonlinear bounded systems. International Journal of Theoretical Physics, 1995, 34, 1667-1679. | 1.2 | 0 |

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| 55 | Long-Time Evolution of Semiclassical States in Anharmonic Potentials. Physical Review Letters, 1995, 75, 990-993. | 7.8 | 22 |
| 56 | Long-Time Evolution of Semiclassical States in Anharmonic Potentials. Physical Review Letters, 1995, 75, 3375-3375. | 7.8 | 2 |
| 57 | Wigner-Weyl Formalisms for Toroidal Geometries. Annals of Physics, 1994, 230, 21-51. | 2.8 | 45 |
| 58 | Raman scattering study of crystal perfection of MOVPE-grown GaAs. Semiconductor Science and Technology, 1993, 8, 179-184. | 2.0 | 1 |
| 59 | Similarity transformations of irreducible corepresentations in Wigner canonical form. Journal of Mathematical Physics, 1990, 31, 1304-1309. | 1.1 | 0 |
| 60 | Symmetries in magnetic phase transitions: I. The Landau-Ginzburg-Wilson Hamiltonian. Journal of Physics A, 1990, 23, 4399-4413. | 1.6 | 1 |
| 61 | Generating relations for reducing matrices. IV. Subduced representations. Journal of Mathematical Physics, 1989, 30, 9-17. | 1.1 | 1 |
| 62 | Practical quantum key distribution with polarization entangled photons. , 0, , . | | 4 |
| 63 | 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 |