

Georgios M Nikolopoulos

List of Publications by Year in descending order

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57
papers

1,507
citations

430874

18
h-index

315739

38
g-index

63
all docs

63
docs citations

63
times ranked

987
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamental quantum optics in structured reservoirs. Reports on Progress in Physics, 2000, 63, 455-503.	20.1	290
2	Electron wavepacket propagation in a chain of coupled quantum dots. Journal of Physics Condensed Matter, 2004, 16, 4991-5002.	1.8	107
3	Coherent electron wavepacket propagation and entanglement in array of coupled quantum dots. Europhysics Letters, 2004, 65, 297-303.	2.0	106
4	Faithful communication Hamiltonian in photonic lattices. Optics Letters, 2012, 37, 4504.	3.3	79
5	Applications of single-qubit rotations in quantum public-key cryptography. Physical Review A, 2008, 77, .	2.5	66
6	State transfer in static and dynamic spin chains with disorder. Physical Review A, 2010, 81, .	2.5	63
7	Spatial effects in superradiant Rayleigh scattering from Bose-Einstein condensates. Physical Review A, 2006, 73, .	2.5	62
8	Perfect state transfer in networks of arbitrary topology and coupling configuration. Physical Review A, 2007, 75, .	2.5	62
9	Beyond single-photon localization at the edge of a photonic band gap. Physical Review A, 2000, 61, .	2.5	51
10	Security bound of two-basis quantum-key-distribution protocols using qudits. Physical Review A, 2005, 72, .	2.5	49
11	Error tolerance of two-basis quantum-key-distribution protocols using qudits and two-way classical communication. Physical Review A, 2006, 73, .	2.5	47
12	Dynamics of matter-wave and optical fields in superradiant scattering from Bose-Einstein condensates. Physical Review A, 2005, 72, .	2.5	38
13	Quantum systems coupled to a structured reservoir with multiple excitations. Physical Review A, 1999, 60, 5079-5082.	2.5	35
14	Directional Coupling for Quantum Computing and Communication. Physical Review Letters, 2008, 101, 200502.	7.8	34
15	Time-dependent density-functional theory of strong-field ionization of atoms by soft x rays. Physical Review A, 2014, 90, .	2.5	29
16	Deterministic quantum-public-key encryption: Forward search attack and randomization. Physical Review A, 2009, 79, .	2.5	26
17	Continuous-variable quantum authentication of physical unclonable keys. Scientific Reports, 2017, 7, 46047.	3.3	24
18	Symmetries and security of a quantum-public-key encryption based on single-qubit rotations. Physical Review A, 2012, 85, .	2.5	20

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19	Continuous-variable quantum authentication of physical unclonable keys: Security against an emulation attack. <i>Physical Review A</i> , 2018, 97, .	2.5	19
20	Communication in quantum networks of logical bus topology. <i>Physical Review A</i> , 2009, 80, .	2.5	17
21	Route to direct multiphoton multiple ionization. <i>Physical Review A</i> , 2011, 83, .	2.5	17
22	Effects of free-electron-laser field fluctuations on the frequency response of driven atomic resonances. <i>Physical Review A</i> , 2012, 86, .	2.5	17
23	Sequential superradiant scattering from atomic Bose-Einstein condensates. <i>Laser Physics</i> , 2007, 17, 180-189.	1.2	16
24	Correlated directional atomic clouds via four-heterowave mixing. <i>Physical Review A</i> , 2010, 81, .	2.5	13
25	Decision and function problems based on boson sampling. <i>Physical Review A</i> , 2016, 94, .	2.5	13
26	Few-photon quantum electrodynamics in a structured continuum. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2001, 3, 115-123.	1.4	12
27	Statistics of a quantum-state-transfer Hamiltonian in the presence of disorder. <i>Physical Review A</i> , 2013, 87, .	2.5	12
28	Analysis and minimization of bending losses in discrete quantum networks. <i>Physical Review A</i> , 2012, 85, .	2.5	11
29	Multiple ionization under strong XUV to X-ray radiation. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2067-2084.	2.6	11
30	Non-Markovian dynamics in atom-laser outcoupling from a double-well Bose-Einstein condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 2511-2529.	1.5	10
31	Perfect transfer of multiple excitations in quantum networks. <i>Physical Review A</i> , 2011, 83, .	2.5	10
32	Evaluation of the performance of two state-transfer Hamiltonians in the presence of static disorder. <i>Quantum Information Processing</i> , 2016, 15, 2553-2568.	2.2	10
33	Cryptographic one-way function based on boson sampling. <i>Quantum Information Processing</i> , 2019, 18, 1.	2.2	10
34	Collective behaviour in a system of two two-level atoms at the edge of a photonic band-gap. <i>Journal of Modern Optics</i> , 2002, 49, 61-71.	1.3	9
35	Effects of relative phase and interactions on atom-laser outcoupling from a double-well Bose-Einstein condensate: Markovian and non-Markovian dynamics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 025301.	1.5	9
36	Photon-assisted quantum state transfer and entanglement generation in spin chains. <i>Physical Review A</i> , 2018, 98, .	2.5	8

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37	Intercept-Resend Emulation Attacks against a Continuous-Variable Quantum Authentication Protocol with Physical Unclonable Keys. <i>Cryptography</i> , 2019, 3, 25.	2.3	8
38	Atom-number filter in an optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 131001.	1.5	7
39	Frequency response of an atomic resonance driven by weak free-electron-laser fluctuating pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164010.	1.5	7
40	Assessing the number of atoms in a Rydberg-blockaded mesoscopic ensemble. <i>Physical Review A</i> , 2014, 89, .	2.5	7
41	Effects of interatomic collisions on atom-laser outcoupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2797-2816.	1.5	6
42	Early stage of superradiance from Bose-Einstein condensates. <i>Physical Review A</i> , 2010, 82, .	2.5	6
43	Resonantly enhanced multiphoton ionization under XUV FEL radiation: a case study of the role of harmonics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244006.	1.5	6
44	Coherent population oscillations and an effective spin-exchange interaction in a \mathcal{PT} -symmetric polariton mixture. <i>Europhysics Letters</i> , 2020, 129, 37003.	2.0	6
45	Multiple ionization of neon under soft x-rays: theory versus experiment. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 115001.	1.5	5
46	Remote Quantum-Safe Authentication of Entities with Physical Unclonable Functions. <i>Photonics</i> , 2021, 8, 289.	2.0	5
47	Optical scheme for cryptographic commitments with physical unclonable keys. <i>Optics Express</i> , 2019, 27, 29367.	3.4	5
48	Provable entanglement and information cost for qubit-based quantum key-distribution protocols. <i>European Physical Journal D</i> , 2006, 37, 441-450.	1.3	4
49	Information-Theoretically Secure Data Origin Authentication with Quantum and Classical Resources. <i>Cryptography</i> , 2020, 4, 31.	2.3	4
50	Postponement of dark-count effects in practical quantum key-distribution by two-way post-processing. <i>European Physical Journal D</i> , 2006, 40, 453-464.	1.3	2
51	Role of the relative phase in the merging of two independent Bose-Einstein condensates. <i>Physical Review A</i> , 2009, 79, .	2.5	2
52	Passage-time statistics of superradiant light pulses from Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 025301.	1.5	2
53	State Transfer Hamiltonians in Photonic Lattices. , 2014, , 223-245.		1
54	Transfer of optical signals around bends in two-dimensional linear photonic networks. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 035505.	1.5	1

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55	Linear and nonlinear light dynamics in photonic lattices. MATEC Web of Conferences, 2013, 8, 01007.	0.2	0
56	Taming light with photonic lattices written by femtosecond laser. MATEC Web of Conferences, 2013, 8, 01005.	0.2	0
57	Perfect transfer of multiple excitations in quantum networks. , 2011, , .		0