

Muhammad Zubairy

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161
papers

9,886
citations

38
h-index

97
g-index

169
ext. papers

10,972
ext. citations

3.2
avg, IF

6.43
L-index

#	Paper	IF	Citations
161	Quantum Optics 1997 ,		4743
160	Entanglement conditions for two-mode states. <i>Physical Review Letters</i> , 2006 , 96, 050503	7.4	286
159	Correlated spontaneous emission laser as an entanglement amplifier. <i>Physical Review Letters</i> , 2005 , 94, 023601	7.4	194
158	Subwavelength atom localization via amplitude and phase control of the absorption spectrum. <i>Physical Review A</i> , 2005 , 72,	2.6	164
157	Atom localization via resonance fluorescence. <i>Physical Review A</i> , 2000 , 61,	2.6	160
156	Disentanglement in a two-qubit system subjected to dissipation environments. <i>Physical Review A</i> , 2007 , 75,	2.6	154
155	Quantum teleportation of an entangled state. <i>Physical Review A</i> , 2000 , 62,	2.6	145
154	Tunable phase control for subluminal to superluminal light propagation. <i>Physical Review A</i> , 2004 , 70,	2.6	135
153	Atom localization via phase and amplitude control of the driving field. <i>Physical Review A</i> , 2002 , 65,	2.6	125
152	Reversing entanglement change by a weak measurement. <i>Physical Review A</i> , 2010 , 82,	2.6	123
151	Subwavelength atom localization via amplitude and phase control of the absorption spectrum. II. <i>Physical Review A</i> , 2006 , 73,	2.6	118
150	Amplitude and phase control of spontaneous emission. <i>Physical Review A</i> , 2000 , 62,	2.6	117
149	Control of the Goos-Hñchen shift of a light beam via a coherent driving field. <i>Physical Review A</i> , 2008 , 77,	2.6	111
148	Continuous-variable entanglement in a correlated spontaneous emission laser. <i>Physical Review A</i> , 2005 , 72,	2.6	110
147	Phase-sensitive amplification in a three-level atomic system. <i>Physical Review A</i> , 1990 , 41, 5179-5186	2.6	105
146	Protocol for direct counterfactual quantum communication. <i>Physical Review Letters</i> , 2013 , 110, 170502	7.4	93
145	Entanglement conditions for two-mode states: Applications. <i>Physical Review A</i> , 2006 , 74,	2.6	86

144	Coherent control of the Goos-Hänchen shift. <i>Physical Review A</i> , 2010 , 81,	2.6	83
143	Reversing the weak measurement of an arbitrary field with finite photon number. <i>Physical Review A</i> , 2009 , 80,	2.6	83
142	Cavity-QED-based quantum phase gate. <i>Physical Review A</i> , 2003 , 68,	2.6	83
141	Quenching of spontaneous emission through interference of incoherent pump processes. <i>Physical Review A</i> , 2003 , 67,	2.6	77
140	Spectroscopic measurement of an atomic wave function. <i>Physical Review A</i> , 2003 , 67,	2.6	77
139	Atom localization and center-of-mass wave-function determination via multiple simultaneous quadrature measurements. <i>Physical Review A</i> , 2007 , 75,	2.6	75
138	Quantum teleportation of a field state. <i>Physical Review A</i> , 1998 , 58, 4368-4372	2.6	74
137	Single atom as a macroscopic entanglement source. <i>Physical Review A</i> , 2006 , 74,	2.6	68
136	Continuous-variable entanglement via multiphoton catalysis. <i>Physical Review A</i> , 2017 , 95,	2.6	67
135	Optical imaging beyond the diffraction limit via dark states. <i>Physical Review A</i> , 2008 , 78,	2.6	64
134	Quantum beat laser as a source of entangled radiation. <i>Physical Review A</i> , 2008 , 77,	2.6	64
133	Time and the quantum: erasing the past and impacting the future. <i>Science</i> , 2005 , 307, 875-9	33.3	57
132	Spectral properties of a strongly coupled quantum-dot-metal-nanoparticle system. <i>Physical Review A</i> , 2014 , 89,	2.6	56
131	Condensation of N bosons. II. Nonequilibrium analysis of an ideal Bose gas and the laser phase-transition analogy. <i>Physical Review A</i> , 2000 , 61,	2.6	52
130	Single-photon transport through an atomic chain coupled to a one-dimensional nanophotonic waveguide. <i>Physical Review A</i> , 2015 , 92,	2.6	51
129	Entanglement generation in a two-mode quantum beat laser. <i>Physical Review A</i> , 2007 , 76,	2.6	46
128	Correlation of photon pairs from the double Raman amplifier: Generalized analytical quantum Langevin theory. <i>Physical Review A</i> , 2007 , 75,	2.6	45
127	Comment on Bast of a quantum particle \square <i>Physical Review A</i> , 2013 , 88,	2.6	42

126	Entanglement of Gaussian states using a beam splitter. <i>Physical Review A</i> , 2009 , 79,	2.6	42
125	Photon transport in a one-dimensional nanophotonic waveguide QED system. <i>Physica Scripta</i> , 2016 , 91, 063004	2.6	41
124	Measurement of the separation between atoms beyond diffraction limit. <i>Physical Review A</i> , 2006 , 73,	2.6	38
123	Optically controlled delays for broadband pulses. <i>Physical Review A</i> , 2005 , 72,	2.6	38
122	Quantum electrodynamics of accelerated atoms in free space and in cavities. <i>Physical Review A</i> , 2006 , 74,	2.6	38
121	Entanglement of movable mirrors in a correlated-emission laser. <i>Physical Review A</i> , 2013 , 88,	2.6	36
120	Conservation relation of nonclassicality and entanglement for Gaussian states in a beam splitter. <i>Physical Review A</i> , 2015 , 92,	2.6	34
119	Effect of the counterrotating-wave terms on the spontaneous emission from a multilevel atom. <i>Physical Review A</i> , 2009 , 80,	2.6	34
118	Influence of pump-phase fluctuations on entanglement generation using a correlated spontaneous-emission laser. <i>Physical Review A</i> , 2007 , 75,	2.6	34
117	Dynamical theory of single-photon transport in a one-dimensional waveguide coupled to identical and nonidentical emitters. <i>Physical Review A</i> , 2016 , 94,	2.6	33
116	Entanglement in a bright light source via Raman-driven coherence. <i>Physical Review A</i> , 2009 , 79,	2.6	33
115	Multiphoton catalysis with coherent state input: nonclassicality and decoherence. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 175504	1.3	31
114	Hanbury Brown-Twiss effect and thermal light ghost imaging: A unified approach. <i>Physical Review A</i> , 2009 , 79,	2.6	31
113	Measurement of entangled states via atomic beam deflection in Bragg regime. <i>Physical Review A</i> , 2004 , 70,	2.6	30
112	Quantum disentanglement eraser: A cavity QED implementation. <i>Physical Review A</i> , 2004 , 70,	2.6	30
111	Quantum teleportation of an arbitrary superposition of atomic Dicke states. <i>Physical Review A</i> , 2005 , 71,	2.6	30
110	Cavity QED-based quantum walk. <i>Physical Review A</i> , 2004 , 70,	2.6	29
109	Salih et al. Reply:. <i>Physical Review Letters</i> , 2014 , 112,	7.4	27

108	Nanoshell-mediated robust entanglement between coupled quantum dots. <i>Physical Review A</i> , 2016 , 93,	2.6	26
107	Controlling the Goos-Hñchen and Imbert-Fedorov shifts via pump and driving fields. <i>Physical Review A</i> , 2016 , 93,	2.6	26
106	Nanometer-scale microscopy via graphene plasmons. <i>Physical Review B</i> , 2014 , 90,	3.3	26
105	Atom microscopy via two-photon spontaneous emission spectroscopy. <i>Physical Review A</i> , 2009 , 79,	2.6	26
104	Entangled radiation via a Raman-driven quantum-beat laser. <i>Physical Review A</i> , 2009 , 80,	2.6	26
103	Goos-Hñchen shifts of partially coherent light fields. <i>Physical Review Letters</i> , 2013 , 111, 223901	7.4	25
102	Direct counterfactual transmission of a quantum state. <i>Physical Review A</i> , 2015 , 92,	2.6	25
101	Teleportation of an atomic momentum state. <i>Physical Review A</i> , 2003 , 67,	2.6	25
100	Proposal for direct measurement of concurrence via visibility in a cavity QED system. <i>Physical Review A</i> , 2008 , 77,	2.6	24
99	Quantum lithography with classical light: Generation of arbitrary patterns. <i>Physical Review A</i> , 2007 , 75,	2.6	24
98	Manipulation of the Raman process via incoherent pump, tunable intensity, and phase control. <i>Physical Review A</i> , 2008 , 77,	2.6	23
97	Optimal fidelity of teleportation with continuous variables using three tunable parameters in a realistic environment. <i>Physical Review A</i> , 2016 , 93,	2.6	22
96	Tunable Goos-Hñchen shift from graphene ribbon array. <i>Optics Express</i> , 2017 , 25, 23579-23588	3.3	22
95	Controlling the Casimir force via the electromagnetic properties of materials. <i>Physical Review A</i> , 2010 , 81,	2.6	22
94	Entanglement criteria and nonlocality for multimode continuous-variable systems. <i>Physical Review A</i> , 2009 , 80,	2.6	22
93	The influence of spatial coherence on the Goos-Hñchen shift at total internal reflection. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 055401	1.3	22
92	Distilling two-atom distance information from intensity-intensity correlation functions. <i>Physical Review A</i> , 2006 , 74,	2.6	22
91	Single-photon frequency-comb generation in a one-dimensional waveguide coupled to two atomic arrays. <i>Physical Review A</i> , 2016 , 93,	2.6	21

90	Relation between wave-particle duality and quantum uncertainty. <i>Physical Review A</i> , 2012 , 85,	2.6	20
89	Effect of phase fluctuations on entanglement generation in a correlated emission laser with injected coherence. <i>Optics Communications</i> , 2010 , 283, 781-785	2	20
88	Entanglement of movable mirrors in a correlated emission laser via cascade-driven coherence. <i>Physical Review A</i> , 2013 , 88,	2.6	18
87	Wide-band optical switch via white light cavity. <i>Physical Review A</i> , 2012 , 86,	2.6	18
86	One-atom correlated-emission laser. <i>Physical Review A</i> , 2008 , 77,	2.6	18
85	Theory of femtosecond coherent anti-Stokes Raman backscattering enhanced by quantum coherence for standoff detection of bacterial spores. <i>Physical Review A</i> , 2005 , 72,	2.6	18
84	Negative refraction without absorption via quantum coherence. <i>Physical Review A</i> , 2016 , 93,	2.6	17
83	Atom lithography with subwavelength resolution via Rabi oscillations. <i>Physical Review A</i> , 2013 , 87,	2.6	17
82	Quantum teleportation of four-dimensional qudits. <i>Physical Review A</i> , 2010 , 82,	2.6	17
81	A Quantum Circuit Design for Grover's Algorithm. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2002 , 57, 701-708	1.4	17
80	Higher-order wave-particle duality. <i>Physical Review A</i> , 2013 , 87,	2.6	16
79	Quantum lithography with classical light. <i>Physical Review A</i> , 2013 , 87,	2.6	16
78	Single-atom localization via resonance-fluorescence photon statistics. <i>Physical Review A</i> , 2012 , 85,	2.6	16
77	Resonance-fluorescence-localization microscopy with subwavelength resolution. <i>Physical Review A</i> , 2012 , 85,	2.6	16
76	Anomalous switching of optical bistability in a Bose-Einstein condensate. <i>Physical Review A</i> , 2013 , 87,	2.6	15
75	Gaussian-state entanglement in a quantum beat laser. <i>Physical Review A</i> , 2011 , 83,	2.6	15
74	Quantum Logic Gate Operating on Atomic Scattering by Standing Wave Field in Bragg Regime. <i>Fortschritte Der Physik</i> , 1998 , 46, 417-422	5.7	14
73	Spectral narrowing via quantum coherence. <i>Physical Review A</i> , 2006 , 74,	2.6	14

72	Reconstruction of an entangled state in a cavity via Autler-Townes spectroscopy. <i>Physical Review A</i> , 2002 , 65,	2.6	14
71	Deep-subwavelength lithography via graphene plasmons. <i>Physical Review A</i> , 2017 , 95,	2.6	13
70	Coherent atom lithography with nanometer resolution. <i>Physical Review A</i> , 2013 , 88,	2.6	13
69	Direct quantum communication with almost invisible photons. <i>Physical Review A</i> , 2014 , 89,	2.6	12
68	Quantum interference due to energy shifts and its effect on spontaneous emission. <i>Physical Review A</i> , 2010 , 82,	2.6	12
67	Controllable waveguide via dielectric cylinder covered with graphene: Tunable entanglement. <i>Europhysics Letters</i> , 2016 , 115, 14002	1.6	11
66	Polariton-Assisted Cooperativity of Molecules in Microcavities Monitored by Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4448-4454	6.4	11
65	The influence of laser fluctuations on entanglement generation in a non-degenerate parametric amplifier. <i>Optics Communications</i> , 2006 , 262, 129-132	2	11
64	Reconstruction of the Wigner function of the Schrödinger-cat state via time-dependent Autler-Townes spectroscopy. <i>Journal of Modern Optics</i> , 2002 , 49, 245-257	1.1	11
63	Counterintuitive dispersion violating Kramers-Kronig relations in gain slabs. <i>Physical Review Letters</i> , 2014 , 112, 233601	7.4	10
62	Single-photon modulation by the collective emission of an atomic chain. <i>Physical Review A</i> , 2014 , 90,	2.6	10
61	Entanglement in a parametric converter. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 145504	1.3	10
60	Waveguide quantum electrodynamics in squeezed vacuum. <i>Physical Review A</i> , 2018 , 97,	2.6	9
59	Measurement of deep-subwavelength emitter separation in a waveguide-QED system. <i>Optics Express</i> , 2017 , 25, 31997-32009	3.3	9
58	Reconstruction of a multimode entangled state using a two-photon phase-sensitive linear amplifier. <i>Physical Review A</i> , 2003 , 67,	2.6	9
57	Quantum state measurement using phase-sensitive amplification in a driven three-level atomic system. <i>Physical Review A</i> , 2001 , 64,	2.6	9
56	Reply to Comment on Direct counterfactual transmission of a quantum state <i>Physical Review A</i> , 2016 , 93,	2.6	8
55	Trade-off between information gain and fidelity under weak measurements. <i>Physical Review A</i> , 2015 , 92,	2.6	8

54	Quantum search protocol for an atomic array. <i>Physical Review A</i> , 2001 , 64,	2.6	8
53	Quantum-state tomography using phase-sensitive amplification. <i>Physical Review A</i> , 2000 , 62,	2.6	8
52	Controlling photonic spin Hall effect based on tunable surface plasmon resonance with an N-type coherent medium. <i>Physical Review A</i> , 2020 , 101,	2.6	7
51	Quantum Secure Group Communication. <i>Scientific Reports</i> , 2018 , 8, 3899	4.9	7
50	Entanglement generation among quantum dots and surface plasmons of a metallic nanoring. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 155502	1.3	7
49	Wolf effect of partially coherent light fields in two-dimensional curved space. <i>Physical Review A</i> , 2018 , 97,	2.6	7
48	Effect of counter-rotating terms on the spontaneous emission in an anisotropic photonic crystal. <i>Physical Review A</i> , 2013 , 87,	2.6	7
47	Coherent frequency down-conversions and entanglement generation in a Sagnac interferometer. <i>Optics Express</i> , 2017 , 25, 16151-16170	3.3	7
46	Effects of noise and parameter deviations in a bichromatic Raman white light cavity. <i>Physical Review A</i> , 2010 , 81,	2.6	7
45	Entanglement in correlated spontaneous emission lasers. <i>Quantum Information Processing</i> , 2009 , 8, 587-605	6.5	7
44	Probing the quantum commutation rules through cavity QED. <i>Physical Review A</i> , 2008 , 78,	2.6	7
43	Lamb shift due to surface plasmon polariton modes. <i>Physical Review A</i> , 2008 , 77,	2.6	7
42	Role of noise operators on two-photon correlations in an extended coherent Raman medium. <i>Physical Review A</i> , 2007 , 75,	2.6	7
41	Dissipative production of controllable steady-state entanglement of two superconducting qubits in separated resonators. <i>Europhysics Letters</i> , 2015 , 110, 40004	1.6	6
40	Subwavelength optical microscopy in the far field. <i>Physical Review A</i> , 2011 , 83,	2.6	6
39	Generation of arbitrary two-qubit entangled states in cavity QED. <i>Journal of Modern Optics</i> , 2004 , 51, 2387-2393	1.1	6
38	Operational resource theory of nonclassicality via quantum metrology. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
37	Noise-robust computational ghost imaging with pink noise speckle patterns. <i>Physical Review A</i> , 2021 , 104,	2.6	6

36	Quantum state preparation by a shaped photon pulse in a one-dimensional continuum. <i>Physical Review A</i> , 2018 , 98,	2.6	5
35	Quantum teleportation of high-dimensional atomic ensemble states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 095502	1.3	5
34	Control of the Lamb shift by a driving field. <i>Physical Review A</i> , 2010 , 81,	2.6	5
33	Effect of energy shifts on the spontaneous emission modification via quantum interference. <i>Physical Review A</i> , 2012 , 85,	2.6	5
32	Quantum-state measurement of two-mode entangled field-state in a high-Q cavity. <i>Physical Review A</i> , 2005 , 72,	2.6	5
31	The state evolution formulation of teleportation for continuous variables. <i>Europhysics Letters</i> , 2001 , 56, 478-484	1.6	5
30	Sub-Rayleigh second-order correlation imaging using spatially distributive colored noise speckle patterns. <i>Optics Express</i> , 2021 , 29, 19621-19630	3.3	5
29	Quantum interference near graphene layers: Observing the surface plasmons with transverse electric polarization. <i>Physical Review A</i> , 2019 , 99,	2.6	4
28	Wang et al. Reply. <i>Physical Review Letters</i> , 2015 , 114, 089302	7.4	4
27	Coherent control of spatial and angular Goos-Hñichen shifts in a metal-clad waveguide structure. <i>Physical Review A</i> , 2020 , 101,	2.6	4
26	Sub-diffraction-limited microscopy via Rabi gradient excitation. <i>Physical Review A</i> , 2015 , 91,	2.6	4
25	Electromagnetically induced transparency inside the laser cavity: Switch between first-order and second-order phase transitions. <i>Physical Review A</i> , 2008 , 78,	2.6	4
24	Tunable positive and negative group delays of light reflection from layer structures with a graphene layer. <i>Journal of Applied Physics</i> , 2017 , 122, 115301	2.5	3
23	Multiphoton pulses interacting with multiple emitters in a one-dimensional waveguide. <i>Physical Review A</i> , 2020 , 102,	2.6	3
22	Quantifications for multimode entanglement. <i>Physical Review A</i> , 2020 , 101,	2.6	3
21	Subwavelength optical lithography via classical light: A possible implementation. <i>Physical Review A</i> , 2018 , 97,	2.6	3
20	Proposal for reversing the weak measurement with arbitrary maximum photon number. <i>Physical Review A</i> , 2016 , 93,	2.6	3
19	Deep subwavelength imaging via tunable terahertz plasmons. <i>Applied Physics Letters</i> , 2018 , 113, 051106	3.4	3

18	Physics. Factoring numbers with waves. <i>Science</i> , 2007 , 316, 554-5	33.3	3
17	Quantum Mechanics for Beginners 2020 ,		3
16	Efficient nonlinear frequency mixing using Autler-Townes splitting. <i>Physical Review A</i> , 2020 , 102,	2.6	3
15	Counterfactual exchange of unknown quantum states. <i>Physical Review A</i> , 2019 , 100,	2.6	2
14	Steady-state population inversion of multiple E-type atoms by the squeezed vacuum in a waveguide. <i>Physical Review A</i> , 2019 , 100,	2.6	2
13	Subwavelength optical lattices induced by position-dependent dark states. <i>Physical Review A</i> , 2011 , 83,	2.6	2
12	Enhancing stimulated Raman excitation and two-photon absorption using entangled states of light. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
11	Magnetic Resonance Lithography with Nanometer Resolution. <i>Technologies</i> , 2016 , 4, 12	2.4	2
10	Physics of electromagnetically induced chirality and anti-symmetric wave transmission. <i>Journal of Modern Optics</i> , 2019 , 66, 1678-1687	1.1	1
9	Counterfactual Trojan horse attack. <i>Physical Review A</i> , 2020 , 101,	2.6	1
8	Super-resolving single-photon number-path-entangled state and its generation. <i>Physical Review A</i> , 2014 , 89,	2.6	1
7	Quantum eraser from duality-entanglement perspective. <i>Physical Review A</i> , 2021 , 104,	2.6	1
6	Graphene Plasmon Excitation with Ground-State Two-Level Quantum Emitters. <i>Physical Review Letters</i> , 2021 , 126, 117401	7.4	1
5	Quantum-state reconstruction of a mechanical mirror in a hybrid system. <i>Physical Review A</i> , 2018 , 98,	2.6	1
4	Quantum Logic Gate Operating on Atomic Scattering by Standing Wave Field in Bragg Regime 1998 , 46, 417		1
3	Perfect lens with hybrid structure of dielectric and atomic gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 155504	1.3	
2	Quantum Logic Gate Operating on Atomic Scattering by Standing Wave Field in Bragg Regime 2004 , 111-116		
1	Deep subwavelength lithography via tunable terahertz plasmons. <i>Optics Express</i> , 2019 , 27, 23157-23163	3.3	

