

Muhammad Zubairy

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8821049/muhammad-zubairy-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 eraser from duality-entanglement perspective. <i>Physical Review A</i> , 2021 , 104,	2.6	1
160	Enhancing stimulated Raman excitation and two-photon absorption using entangled states of light. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
159	Graphene Plasmon Excitation with Ground-State Two-Level Quantum Emitters. <i>Physical Review Letters</i> , 2021 , 126, 117401	7.4	1
158	Sub-Rayleigh second-order correlation imaging using spatially distributive colored noise speckle patterns. <i>Optics Express</i> , 2021 , 29, 19621-19630	3.3	5
157	Noise-robust computational ghost imaging with pink noise speckle patterns. <i>Physical Review A</i> , 2021 , 104,	2.6	6
156	Multiphoton pulses interacting with multiple emitters in a one-dimensional waveguide. <i>Physical Review A</i> , 2020 , 102,	2.6	3
155	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
154	Coherent control of spatial and angular Goos-Hänchen shifts in a metal-clad waveguide structure. <i>Physical Review A</i> , 2020 , 101,	2.6	4
153	Counterfactual Trojan horse attack. <i>Physical Review A</i> , 2020 , 101,	2.6	1
152	Quantifications for multimode entanglement. <i>Physical Review A</i> , 2020 , 101,	2.6	3
151	Operational resource theory of nonclassicality via quantum metrology. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
150	Quantum Mechanics for Beginners 2020 ,		3
149	Efficient nonlinear frequency mixing using Autler-Townes splitting. <i>Physical Review A</i> , 2020 , 102,	2.6	3
148	Physics of electromagnetically induced chirality and anti-symmetric wave transmission. <i>Journal of Modern Optics</i> , 2019 , 66, 1678-1687	1.1	1
147	Quantum interference near graphene layers: Observing the surface plasmons with transverse electric polarization. <i>Physical Review A</i> , 2019 , 99,	2.6	4
146	Counterfactual exchange of unknown quantum states. <i>Physical Review A</i> , 2019 , 100,	2.6	2
145	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

144	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
143	Deep subwavelength lithography via tunable terahertz plasmons. <i>Optics Express</i> , 2019 , 27, 23157-23163	3.3	3
142	Quantum Secure Group Communication. <i>Scientific Reports</i> , 2018 , 8, 3899	4.9	7
141	Subwavelength optical lithography via classical light: A possible implementation. <i>Physical Review A</i> , 2018 , 97,	2.6	3
140	Waveguide quantum electrodynamics in squeezed vacuum. <i>Physical Review A</i> , 2018 , 97,	2.6	9
139	Deep subwavelength imaging via tunable terahertz plasmons. <i>Applied Physics Letters</i> , 2018 , 113, 051106	3.4	3
138	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	
137	Quantum state preparation by a shaped photon pulse in a one-dimensional continuum. <i>Physical Review A</i> , 2018 , 98,	2.6	5
136	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
135	Wolf effect of partially coherent light fields in two-dimensional curved space. <i>Physical Review A</i> , 2018 , 97,	2.6	7
134	Quantum-state reconstruction of a mechanical mirror in a hybrid system. <i>Physical Review A</i> , 2018 , 98,	2.6	1
133	Continuous-variable entanglement via multiphoton catalysis. <i>Physical Review A</i> , 2017 , 95,	2.6	67
132	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
131	Deep-subwavelength lithography via graphene plasmons. <i>Physical Review A</i> , 2017 , 95,	2.6	13
130	Coherent frequency down-conversions and entanglement generation in a Sagnac interferometer. <i>Optics Express</i> , 2017 , 25, 16151-16170	3.3	7
129	Tunable Goos-Hñchen shift from graphene ribbon array. <i>Optics Express</i> , 2017 , 25, 23579-23588	3.3	22
128	Measurement of deep-subwavelength emitter separation in a waveguide-QED system. <i>Optics Express</i> , 2017 , 25, 31997-32009	3.3	9
127	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

126	Controllable waveguide via dielectric cylinder covered with graphene: Tunable entanglement. <i>Europhysics Letters</i> , 2016 , 115, 14002	1.6	11
125	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
124	Nanoshell-mediated robust entanglement between coupled quantum dots. <i>Physical Review A</i> , 2016 , 93,	2.6	26
123	Negative refraction without absorption via quantum coherence. <i>Physical Review A</i> , 2016 , 93,	2.6	17
122	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
121	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
120	Proposal for reversing the weak measurement with arbitrary maximum photon number. <i>Physical Review A</i> , 2016 , 93,	2.6	3
119	Reply to Comment on Direct counterfactual transmission of a quantum state <i>Physical Review A</i> , 2016 , 93,	2.6	8
118	Controlling the Goos-Hänchen and Imbert-Fedorov shifts via pump and driving fields. <i>Physical Review A</i> , 2016 , 93,	2.6	26
117	Magnetic Resonance Lithography with Nanometer Resolution. <i>Technologies</i> , 2016 , 4, 12	2.4	2
116	Photon transport in a one-dimensional nanophotonic waveguide QED system. <i>Physica Scripta</i> , 2016 , 91, 063004	2.6	41
115	Wang et al. Reply. <i>Physical Review Letters</i> , 2015 , 114, 089302	7.4	4
114	Single-photon transport through an atomic chain coupled to a one-dimensional nanophotonic waveguide. <i>Physical Review A</i> , 2015 , 92,	2.6	51
113	Sub-diffraction-limited microscopy via Rabi gradient excitation. <i>Physical Review A</i> , 2015 , 91,	2.6	4
112	Conservation relation of nonclassicality and entanglement for Gaussian states in a beam splitter. <i>Physical Review A</i> , 2015 , 92,	2.6	34
111	Trade-off between information gain and fidelity under weak measurements. <i>Physical Review A</i> , 2015 , 92,	2.6	8
110	Direct counterfactual transmission of a quantum state. <i>Physical Review A</i> , 2015 , 92,	2.6	25
109	Dissipative production of controllable steady-state entanglement of two superconducting qubits in separated resonators. <i>Europhysics Letters</i> , 2015 , 110, 40004	1.6	6

108	Spectral properties of a strongly coupled quantum-dot-metal-nanoparticle system. <i>Physical Review A</i> , 2014 , 89,	2.6	56
107	Super-resolving single-photon number-path-entangled state and its generation. <i>Physical Review A</i> , 2014 , 89,	2.6	1
106	Salih et al. Reply:. <i>Physical Review Letters</i> , 2014 , 112,	7.4	27
105	Direct quantum communication with almost invisible photons. <i>Physical Review A</i> , 2014 , 89,	2.6	12
104	Counterintuitive dispersion violating Kramers-Kronig relations in gain slabs. <i>Physical Review Letters</i> , 2014 , 112, 233601	7.4	10
103	Nanometer-scale microscopy via graphene plasmons. <i>Physical Review B</i> , 2014 , 90,	3.3	26
102	Single-photon modulation by the collective emission of an atomic chain. <i>Physical Review A</i> , 2014 , 90,	2.6	10
101	Entanglement of movable mirrors in a correlated-emission laser. <i>Physical Review A</i> , 2013 , 88,	2.6	36
100	Goos-Hänchen shifts of partially coherent light fields. <i>Physical Review Letters</i> , 2013 , 111, 223901	7.4	25
99	Entanglement of movable mirrors in a correlated emission laser via cascade-driven coherence. <i>Physical Review A</i> , 2013 , 88,	2.6	18
98	Higher-order wave-particle duality. <i>Physical Review A</i> , 2013 , 87,	2.6	16
97	Quantum lithography with classical light. <i>Physical Review A</i> , 2013 , 87,	2.6	16
96	Effect of counter-rotating terms on the spontaneous emission in an anisotropic photonic crystal. <i>Physical Review A</i> , 2013 , 87,	2.6	7
95	Atom lithography with subwavelength resolution via Rabi oscillations. <i>Physical Review A</i> , 2013 , 87,	2.6	17
94	Anomalous switching of optical bistability in a Bose-Einstein condensate. <i>Physical Review A</i> , 2013 , 87,	2.6	15
93	Protocol for direct counterfactual quantum communication. <i>Physical Review Letters</i> , 2013 , 110, 170502	7.4	93
92	Coherent atom lithography with nanometer resolution. <i>Physical Review A</i> , 2013 , 88,	2.6	13
91	Comment on Bast of a quantum particle□ <i>Physical Review A</i> , 2013 , 88,	2.6	42

90	Wide-band optical switch via white light cavity. <i>Physical Review A</i> , 2012 , 86,	2.6	18
89	Relation between wave-particle duality and quantum uncertainty. <i>Physical Review A</i> , 2012 , 85,	2.6	20
88	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
87	Effect of energy shifts on the spontaneous emission modification via quantum interference. <i>Physical Review A</i> , 2012 , 85,	2.6	5
86	Single-atom localization via resonance-fluorescence photon statistics. <i>Physical Review A</i> , 2012 , 85,	2.6	16
85	Resonance-fluorescence-localization microscopy with subwavelength resolution. <i>Physical Review A</i> , 2012 , 85,	2.6	16
84	Subwavelength optical microscopy in the far field. <i>Physical Review A</i> , 2011 , 83,	2.6	6
83	Gaussian-state entanglement in a quantum beat laser. <i>Physical Review A</i> , 2011 , 83,	2.6	15
82	Subwavelength optical lattices induced by position-dependent dark states. <i>Physical Review A</i> , 2011 , 83,	2.6	2
81	Quantum interference due to energy shifts and its effect on spontaneous emission. <i>Physical Review A</i> , 2010 , 82,	2.6	12
80	Quantum teleportation of four-dimensional qudits. <i>Physical Review A</i> , 2010 , 82,	2.6	17
79	Control of the Lamb shift by a driving field. <i>Physical Review A</i> , 2010 , 81,	2.6	5
78	Effects of noise and parameter deviations in a bichromatic Raman white light cavity. <i>Physical Review A</i> , 2010 , 81,	2.6	7
77	Controlling the Casimir force via the electromagnetic properties of materials. <i>Physical Review A</i> , 2010 , 81,	2.6	22
76	Coherent control of the Goos-Hñchen shift. <i>Physical Review A</i> , 2010 , 81,	2.6	83
75	Reversing entanglement change by a weak measurement. <i>Physical Review A</i> , 2010 , 82,	2.6	123
74	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
73	Hanbury Brown-Brown effect and thermal light ghost imaging: A unified approach. <i>Physical Review A</i> , 2009 , 79,	2.6	31

72	Entanglement criteria and nonlocality for multimode continuous-variable systems. <i>Physical Review A</i> , 2009 , 80,	2.6	22
71	Reversing the weak measurement of an arbitrary field with finite photon number. <i>Physical Review A</i> , 2009 , 80,	2.6	83
70	Entanglement of Gaussian states using a beam splitter. <i>Physical Review A</i> , 2009 , 79,	2.6	42
69	Atom microscopy via two-photon spontaneous emission spectroscopy. <i>Physical Review A</i> , 2009 , 79,	2.6	26
68	Entanglement in a bright light source via Raman-driven coherence. <i>Physical Review A</i> , 2009 , 79,	2.6	33
67	Entangled radiation via a Raman-driven quantum-beat laser. <i>Physical Review A</i> , 2009 , 80,	2.6	26
66	Effect of the counterrotating-wave terms on the spontaneous emission from a multilevel atom. <i>Physical Review A</i> , 2009 , 80,	2.6	34
65	Entanglement in correlated spontaneous emission lasers. <i>Quantum Information Processing</i> , 2009 , 8, 587-605	2.6	7
64	Manipulation of the Raman process via incoherent pump, tunable intensity, and phase control. <i>Physical Review A</i> , 2008 , 77,	2.6	23
63	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
62	Entanglement in a parametric converter. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 145504	1.3	10
61	Optical imaging beyond the diffraction limit via dark states. <i>Physical Review A</i> , 2008 , 78,	2.6	64
60	Probing the quantum commutation rules through cavity QED. <i>Physical Review A</i> , 2008 , 78,	2.6	7
59	One-atom correlated-emission laser. <i>Physical Review A</i> , 2008 , 77,	2.6	18
58	Quantum beat laser as a source of entangled radiation. <i>Physical Review A</i> , 2008 , 77,	2.6	64
57	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
56	Lamb shift due to surface plasmon polariton modes. <i>Physical Review A</i> , 2008 , 77,	2.6	7
55	Proposal for direct measurement of concurrence via visibility in a cavity QED system. <i>Physical Review A</i> , 2008 , 77,	2.6	24

54	The influence of spatial coherence on the Goos-Hänchen shift at total internal reflection. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 055401	1.3	22
53	Disentanglement in a two-qubit system subjected to dissipation environments. <i>Physical Review A</i> , 2007 , 75,	2.6	154
52	Quantum lithography with classical light: Generation of arbitrary patterns. <i>Physical Review A</i> , 2007 , 75,	2.6	24
51	Role of noise operators on two-photon correlations in an extended coherent Raman medium. <i>Physical Review A</i> , 2007 , 75,	2.6	7
50	Influence of pump-phase fluctuations on entanglement generation using a correlated spontaneous-emission laser. <i>Physical Review A</i> , 2007 , 75,	2.6	34
49	Atom localization and center-of-mass wave-function determination via multiple simultaneous quadrature measurements. <i>Physical Review A</i> , 2007 , 75,	2.6	75
48	Entanglement generation in a two-mode quantum beat laser. <i>Physical Review A</i> , 2007 , 76,	2.6	46
47	Physics. Factoring numbers with waves. <i>Science</i> , 2007 , 316, 554-5	33.3	3
46	Correlation of photon pairs from the double Raman amplifier: Generalized analytical quantum Langevin theory. <i>Physical Review A</i> , 2007 , 75,	2.6	45
45	Measurement of the separation between atoms beyond diffraction limit. <i>Physical Review A</i> , 2006 , 73,	2.6	38
44	Distilling two-atom distance information from intensity-intensity correlation functions. <i>Physical Review A</i> , 2006 , 74,	2.6	22
43	Entanglement conditions for two-mode states: Applications. <i>Physical Review A</i> , 2006 , 74,	2.6	86
42	Single atom as a macroscopic entanglement source. <i>Physical Review A</i> , 2006 , 74,	2.6	68
41	Spectral narrowing via quantum coherence. <i>Physical Review A</i> , 2006 , 74,	2.6	14
40	Subwavelength atom localization via amplitude and phase control of the absorption spectrum. II. <i>Physical Review A</i> , 2006 , 73,	2.6	118
39	Quantum electrodynamics of accelerated atoms in free space and in cavities. <i>Physical Review A</i> , 2006 , 74,	2.6	38
38	Entanglement conditions for two-mode states. <i>Physical Review Letters</i> , 2006 , 96, 050503	7.4	286
37	The influence of laser fluctuations on entanglement generation in a non-degenerate parametric amplifier. <i>Optics Communications</i> , 2006 , 262, 129-132	2	11

36	Continuous-variable entanglement in a correlated spontaneous emission laser. <i>Physical Review A</i> , 2005 , 72,	2.6	110
35	Time and the quantum: erasing the past and impacting the future. <i>Science</i> , 2005 , 307, 875-9	33.3	57
34	Optically controlled delays for broadband pulses. <i>Physical Review A</i> , 2005 , 72,	2.6	38
33	Quantum teleportation of an arbitrary superposition of atomic Dicke states. <i>Physical Review A</i> , 2005 , 71,	2.6	30
32	Subwavelength atom localization via amplitude and phase control of the absorption spectrum. <i>Physical Review A</i> , 2005 , 72,	2.6	164
31	Correlated spontaneous emission laser as an entanglement amplifier. <i>Physical Review Letters</i> , 2005 , 94, 023601	7.4	194
30	Quantum-state measurement of two-mode entangled field-state in a high-Q cavity. <i>Physical Review A</i> , 2005 , 72,	2.6	5
29	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
28	Cavity QED-based quantum walk. <i>Physical Review A</i> , 2004 , 70,	2.6	29
27	Measurement of entangled states via atomic beam deflection in Bragg regime. <i>Physical Review A</i> , 2004 , 70,	2.6	30
26	Generation of arbitrary two-qubit entangled states in cavity QED. <i>Journal of Modern Optics</i> , 2004 , 51, 2387-2393	1.1	6
25	Tunable phase control for subluminal to superluminal light propagation. <i>Physical Review A</i> , 2004 , 70,	2.6	135
24	Quantum disentanglement eraser: A cavity QED implementation. <i>Physical Review A</i> , 2004 , 70,	2.6	30
23	Quantum Logic Gate Operating on Atomic Scattering by Standing Wave Field in Bragg Regime 2004 , 111-116		
22	Quenching of spontaneous emission through interference of incoherent pump processes. <i>Physical Review A</i> , 2003 , 67,	2.6	77
21	Cavity-QED-based quantum phase gate. <i>Physical Review A</i> , 2003 , 68,	2.6	83
20	Spectroscopic measurement of an atomic wave function. <i>Physical Review A</i> , 2003 , 67,	2.6	77
19	Reconstruction of a multimode entangled state using a two-photon phase-sensitive linear amplifier. <i>Physical Review A</i> , 2003 , 67,	2.6	9

18	Teleportation of an atomic momentum state. <i>Physical Review A</i> , 2003 , 67,	2.6	25
17	Atom localization via phase and amplitude control of the driving field. <i>Physical Review A</i> , 2002 , 65,	2.6	125
16	Reconstruction of an entangled state in a cavity via Autler-Townes spectroscopy. <i>Physical Review A</i> , 2002 , 65,	2.6	14
15	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
14	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
13	The state evolution formulation of teleportation for continuous variables. <i>Europhysics Letters</i> , 2001 , 56, 478-484	1.6	5
12	Quantum state measurement using phase-sensitive amplification in a driven three-level atomic system. <i>Physical Review A</i> , 2001 , 64,	2.6	9
11	Quantum search protocol for an atomic array. <i>Physical Review A</i> , 2001 , 64,	2.6	8
10	Quantum-state tomography using phase-sensitive amplification. <i>Physical Review A</i> , 2000 , 62,	2.6	8
9	Quantum teleportation of an entangled state. <i>Physical Review A</i> , 2000 , 62,	2.6	145
8	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
7	Amplitude and phase control of spontaneous emission. <i>Physical Review A</i> , 2000 , 62,	2.6	117
6	Atom localization via resonance fluorescence. <i>Physical Review A</i> , 2000 , 61,	2.6	160
5	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
4	Quantum teleportation of a field state. <i>Physical Review A</i> , 1998 , 58, 4368-4372	2.6	74
3	Quantum Logic Gate Operating on Atomic Scattering by Standing Wave Field in Bragg Regime 1998 , 46, 417		1
2	Quantum Optics 1997 ,		4743
1	Phase-sensitive amplification in a three-level atomic system. <i>Physical Review A</i> , 1990 , 41, 5179-5186	2.6	105

