

Marek Trippenbach

List of Publications by Year in descending order

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105
papers

2,481
citations

218381

26
h-index

214527

47
g-index

105
all docs

105
docs citations

105
times ranked

1463
citing authors

#	ARTICLE	IF	CITATIONS
1	Four-wave mixing with matter waves. <i>Nature</i> , 1999, 398, 218-220.	13.7	406
2	Structure of binary Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 4017-4031.	0.6	201
3	Measurement of the Coherence of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 1999, 83, 3112-3115.	2.9	169
4	Cold and trapped metastable noble gases. <i>Reviews of Modern Physics</i> , 2012, 84, 175-210.	16.4	119
5	Theory of four-wave mixing of matter waves from a Bose-Einstein condensate. <i>Physical Review A</i> , 2000, 62, .	1.0	85
6	Effects of self-steepening and self-frequency shifting on short-pulse splitting in dispersive nonlinear media. <i>Physical Review A</i> , 1998, 57, 4791-4803.	1.0	84
7	Elastic Scattering Loss of Atoms from Colliding Bose-Einstein Condensate Wave Packets. <i>Physical Review Letters</i> , 2000, 84, 5462-5465.	2.9	63
8	Crossover from self-defocusing to discrete trapping in nonlinear waveguide arrays. <i>Optics Express</i> , 2006, 14, 254.	1.7	62
9	Four wave mixing in the scattering of Bose-Einstein condensates. <i>Optics Express</i> , 1998, 3, 530.	1.7	50
10	Spontaneous Four-Wave Mixing of de Broglie Waves: Beyond Optics. <i>Physical Review Letters</i> , 2010, 104, 150402.	2.9	47
11	Supercontinuum generation in an all-normal dispersion large core photonic crystal fiber infiltrated with carbon tetrachloride. <i>Optical Materials Express</i> , 2019, 9, 2264.	1.6	44
12	Supercontinuum generation in photonic crystal fibres with core filled with toluene. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 125604.	1.0	40
13	Oscillating Solitons in a Three-Component Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2010, 105, 125302.	2.9	37
14	Spectroscopy of cross correlations of environmental noises with two qubits. <i>Physical Review A</i> , 2016, 94, .	1.0	37
15	Quantum Multimode Model of Elastic Scattering from Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2005, 94, 200401.	2.9	35
16	Spontaneous emission of atoms via collisions of Bose-Einstein condensates. <i>Physical Review A</i> , 2002, 65, .	1.0	34
17	Stabilization of three-dimensional matter-waves solitons in an optical lattice. <i>Europhysics Letters</i> , 2005, 70, 8-14.	0.7	34
18	Supercontinuum generation in photonic crystal fibers infiltrated with nitrobenzene. <i>Laser Physics</i> , 2020, 30, 035105.	0.6	34

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19	Dynamics of short-pulse splitting in dispersive nonlinear media. <i>Physical Review A</i> , 1997, 56, 4242-4253.	1.0	33
20	Bose-Einstein condensates in time-dependent light potentials: Adiabatic and nonadiabatic behavior of nonlinear wave equations. <i>Physical Review A</i> , 2002, 65, .	1.0	33
21	Two-dimensional solitons in media with stripe-shaped nonlinearity modulation. <i>Physical Review E</i> , 2010, 82, 046602.	0.8	32
22	Radio-frequency output coupling of the Bose-Einstein condensate for atom lasers. <i>Physical Review A</i> , 1999, 59, 3823-3831.	1.0	31
23	Method for obtaining exact solutions of the nonlinear Schrödinger equation for a double-square-well potential. <i>Physical Review A</i> , 2006, 73, .	1.0	31
24	Critical fluctuations of an attractive Bose gas in a double-well potential. <i>Europhysics Letters</i> , 2008, 83, 64007.	0.7	30
25	Supermode spatial optical solitons in liquid crystals with competing nonlinearities. <i>Physical Review A</i> , 2017, 95, .	1.0	29
26	Optimization of optical properties of photonic crystal fibers infiltrated with chloroform for supercontinuum generation. <i>Laser Physics</i> , 2019, 29, 075107.	0.6	28
27	Coherence properties of an atom laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 47-54.	0.6	27
28	Dispersion engineering in nonlinear soft glass photonic crystal fibers infiltrated with liquids. <i>Applied Optics</i> , 2016, 55, 5033.	2.1	27
29	Semiclassical matrix elements, essential-states models and perturbation theory of above-threshold ionisation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1989, 22, 1193-1205.	0.6	25
30	Adiabaticity in nonlinear quantum dynamics: Bose-Einstein condensate in a time-varying box. <i>Physical Review A</i> , 2002, 65, .	1.0	25
31	Elastic scattering losses from colliding Bose-Einstein condensates. <i>Physical Review A</i> , 2006, 73, .	1.0	25
32	Simple and efficient generation of gap solitons in Bose-Einstein condensates. <i>Physical Review A</i> , 2006, 73, .	1.0	22
33	Femtosecond supercontinuum generation around 1560 nm in hollow-core photonic crystal fibers filled with carbon tetrachloride. <i>Applied Optics</i> , 2020, 59, 3720.	0.9	22
34	Measurement of temperature and concentration influence on the dispersion of fused silica glass photonic crystal fiber infiltrated with water-ethanol mixture. <i>Optics Communications</i> , 2018, 407, 417-422.	1.0	19
35	Simulation of a Single Collision of Two Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2006, 97, 170404.	2.9	18
36	Four-wave mixing in a parity-time (PT)-symmetric coupler. <i>Optics Letters</i> , 2015, 40, 5291.	1.7	18

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37	Propagation of light pulses in nonisotropic media. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1403.	0.9	17
38	The dynamics of two entangled qubits exposed to classical noise: role of spatial and temporal noise correlations. Quantum Information Processing, 2015, 14, 3367-3397.	1.0	17
39	An improved nonlinear optical pulse propagation equation. Optics Communications, 2002, 210, 385-391.	1.0	16
40	Competition between attractive and repulsive interactions in two-component Bose-Einstein condensates trapped in an optical lattice. Physical Review A, 2007, 76, .	1.0	16
41	Revivals in an attractive Bose-Einstein condensate in a double-well potential and their decoherence. Physical Review A, 2011, 83, .	1.0	16
42	Angular distribution of photoelectrons in the above-threshold ionization of atomic hydrogen. Physical Review A, 1988, 37, 4194-4200.	1.0	15
43	Thermal effects in light scattering from ultracold bosons in an optical lattice. Physical Review A, 2009, 80, .	1.0	15
44	Optical Wave-Packet Propagation in Nonisotropic Media. Physical Review Letters, 1996, 76, 1457-1460.	2.9	14
45	Symmetric and asymmetric solitons trapped in H -shaped potentials. Physical Review A, 2011, 84, .	1.0	14
46	Semi-analytical approach to supermode spatial solitons formation in nematic liquid crystals. Optics Express, 2017, 25, 23893.	1.7	14
47	Self-consistent treatment of the full vectorial nonlinear optical pulse propagation equation in an isotropic medium. Optics Communications, 2003, 221, 337-351.	1.0	13
48	Class of compact entities in three-component Bose-Einstein condensates. Physical Review A, 2011, 83, .	1.0	13
49	Dispersion characteristics of a suspended-core optical fiber infiltrated with water. Applied Optics, 2017, 56, 1012.	2.1	13
50	Absorption-mediated stabilization of nonlinear propagation of vortex beams in nematic liquid crystals. Optics Communications, 2019, 451, 338-344.	1.0	13
51	Highly nonlinear dynamics of third-harmonic generation by focused beams. Physical Review A, 2004, 69, .	1.0	12
52	Bose-Einstein condensate in a double well potential in the vicinity of a critical point. Laser Physics, 2010, 20, 671-677.	0.6	12
53	Single and double linear and nonlinear flatband chains: Spectra and modes. Physical Review E, 2017, 96, 012204.	0.8	12
54	Near-field and far-field propagation of beams and pulses in dispersive media. Optics Letters, 1997, 22, 579.	1.7	11

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55	Diagonal versus off-diagonal continuum–continuum couplings in the above-threshold ionization of hydrogen. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1987, 4, 1429.	0.9	10
56	Above-threshold ionisation of the classical atom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, 1673-1680.	0.6	10
57	Stabilization of three-dimensional light bullets by a transverse lattice in a Kerr medium with dispersion management. <i>Optics Communications</i> , 2006, 259, 49-54.	1.0	10
58	Stabilization of solitons under competing nonlinearities by external potentials. <i>Chaos</i> , 2014, 24, 043136.	1.0	9
59	Spontaneous symmetry breaking of self-trapped and leaky modes in quasi-double-well potentials. <i>Physical Review A</i> , 2016, 93, .	1.0	9
60	Influence of temperature on dispersion properties of photonic crystal fibers infiltrated with water. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	9
61	Scalar and vector supermode solitons owing to competing nonlocal nonlinearities. <i>Optics Express</i> , 2021, 29, 8015.	1.7	9
62	Modulational instability of coupled ring waveguides with linear gain and nonlinear loss. <i>Scientific Reports</i> , 2017, 7, 4089.	1.6	8
63	Linear-versus-nonlinear regime in macroscopic quantum fluctuations of Stokes pulses. <i>Physical Review A</i> , 1985, 31, 1932-1935.	1.0	7
64	Elastic scattering losses in the four-wave mixing of Bose–Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, L391-L398.	0.6	7
65	Enhancement of third harmonic generation by wave vector mismatch to counter phase-modulation. <i>Optics Communications</i> , 2004, 229, 391-395.	1.0	7
66	Spatial control of the competition between self-focusing and self-defocusing nonlinearities in one- and two-dimensional systems. <i>Physical Review A</i> , 2014, 90, .	1.0	7
67	Cauchy–Schwarz inequality for general measurements as an entanglement criterion. <i>Quantum Information Processing</i> , 2016, 15, 269-278.	1.0	7
68	Supermode spatial solitons via competing nonlocal nonlinearities. <i>Photonics Letters of Poland</i> , 2018, 10, 33.	0.2	7
69	Loading Bose-Einstein-condensed atoms into the ground state of an optical lattice. <i>Physical Review A</i> , 2005, 72, .	1.0	6
70	Optical Thouless pumping transport and nonlinear switching in a topological low-dimensional discrete nematic liquid crystal array. <i>Physical Review A</i> , 2022, 105, .	1.0	6
71	An extended representation of three-spin-component Bose–Einstein condensate solitons. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 1811-1814.	1.3	5
72	Route to chaos in a coupled microresonator system with gain and loss. <i>Nonlinear Dynamics</i> , 2019, 97, 559-569.	2.7	5

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73	Supercontinuum generation in benzene-filled hollow-core fibers. <i>Optical Engineering</i> , 2021, 60, .	0.5	5
74	Four-wave mixing with Bose-Einstein condensates in nonlinear lattices. <i>Europhysics Letters</i> , 2014, 105, 64002.	0.7	4
75	Full quantum state determination via time dependent spectrum data. <i>Journal of Chemical Physics</i> , 1996, 105, 8463-8466.	1.2	3
76	Feshbach Resonance without a Closed-Channel Bound State. <i>Physical Review Letters</i> , 2013, 111, 155301.	2.9	3
77	Vortex Creation without Stirring in Coupled Ring Resonators with Gain and Loss. <i>Symmetry</i> , 2018, 10, 195.	1.1	3
78	Four-wave mixing in spin-orbit coupled Bose-Einstein condensates. <i>New Journal of Physics</i> , 2020, 22, 053019.	1.2	3
79	Pair-correlation function of a metastable helium Bose-Einstein condensate. <i>Physical Review A</i> , 2004, 69, .	1.0	2
80	Applicability of suspended-core fibres for attenuation-based label-free biosensing. <i>Optics Communications</i> , 2017, 402, 290-295.	1.0	2
81	Nonlinear optical pulse propagation: expansion to all orders in diffraction and dispersion. , 2001, , .		1
82	Publisher's note: Adiabaticity in nonlinear quantum dynamics: Bose-Einstein condensate in a time-varying box [Phys. Rev. A65, 033607 (2002)]. <i>Physical Review A</i> , 2002, 65, .	1.0	1
83	Useful models of four-wave mixing in Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 4327-4337.	0.6	1
84	Two- and three-dimensional light bullets in a Kerr medium with dispersion management. , 2005, , .		1
85	Matter wave soliton collisions in the quasi one-dimensional potential. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1449-1455.	1.3	1
86	Symmetry breaking in the collisions of double channel BEC solitons. <i>Physica D: Nonlinear Phenomena</i> , 2014, 269, 37-41.	1.3	1
87	Stabilization of Light Bullets by a Transverse Lattice in a Kerr Medium with Dispersion Management. , 2005, , .		1
88	Linear and nonlinear light beam propagation in chiral nematic liquid crystal waveguides. <i>Photonics Letters of Poland</i> , 2016, 8, .	0.2	1
89	"Optical processes in nanostructures with gain and loss". , 2017, , .		1
90	Probing evanescent modes from near-field optical microscopes:. <i>Ultramicroscopy</i> , 1998, 71, 31-38.	0.8	0

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91	Dynamics of short intense pulse propagation in dispersive media. , 1998, 3264, 132.		0
92	Nonlinear atom optics: four-wave mixing. , 2000, 3928, 272.		0
93	Propagation of ultrashort pulses through transparent dielectrics in nonlinear regime. , 2003, , .		0
94	Nonlinear propagation of femtosecond laser pulses in dielectrics. , 2003, 5258, 20.		0
95	Observation of critical self focusing during propagation of femtosecond light pulses in bulk media. , 2005, , .		0
96	Discrete self-trapping vs. defocusing in nonlinear waveguide arrays. , 2006, , .		0
97	Dispersion engineering in soft glass photonic crystal fibers infiltrated with liquids. Proceedings of SPIE, 2015, , .	0.8	0
98	Temperature sensitivity of photonic crystal fibers infiltrated with ethanol solutions. , 2015, , .		0
99	Symmetry Breakings in Dual-Core Systems with Double-Spot Localization of Nonlinearity. Symmetry, 2018, 10, 156.	1.1	0
100	Conference on Nonlinear Optics and Novel Materials. Photonics Letters of Poland, 2016, 8, .	0.2	0
101	Optical properties of nanostructured gradient index vortex masks. , 2018, , .		0
102	Development of nanostructured gradient index microlenses for mid infrared. , 2018, , .		0
103	Development of nanostructured GRIN microlenses with temperature-controlled diffusion. , 2019, , .		0
104	On the nonlinear dynamics of coupled micro-resonators. , 2019, , .		0
105	Atoms in a spin dependent optical potential: ground state topology and magnetization. New Journal of Physics, 2022, 24, 033041.	1.2	0