

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	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
2	Atoms in a spin dependent optical potential: ground state topology and magnetization. <i>New Journal of Physics</i> , 2022, 24, 033041.	1.2	0
3	Scalar and vector supermode solitons owing to competing nonlocal nonlinearities. <i>Optics Express</i> , 2021, 29, 8015.	1.7	9
4	Supercontinuum generation in benzene-filled hollow-core fibers. <i>Optical Engineering</i> , 2021, 60, .	0.5	5
5	Four-wave mixing in spin-orbit coupled Bose-Einstein condensates. <i>New Journal of Physics</i> , 2020, 22, 053019.	1.2	3
6	Supercontinuum generation in photonic crystal fibers infiltrated with nitrobenzene. <i>Laser Physics</i> , 2020, 30, 035105.	0.6	34
7	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
8	Absorption-mediated stabilization of nonlinear propagation of vortex beams in nematic liquid crystals. <i>Optics Communications</i> , 2019, 451, 338-344.	1.0	13
9	Optimization of optical properties of photonic crystal fibers infiltrated with chloroform for supercontinuum generation. <i>Laser Physics</i> , 2019, 29, 075107.	0.6	28
10	Route to chaos in a coupled microresonator system with gain and loss. <i>Nonlinear Dynamics</i> , 2019, 97, 559-569.	2.7	5
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	Development of nanostructured GRIN microlenses with temperature-controlled diffusion. , 2019, , .		0
13	On the nonlinear dynamics of coupled micro-resonators. , 2019, , .		0
14	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
15	Symmetry Breakings in Dual-Core Systems with Double-Spot Localization of Nonlinearity. <i>Symmetry</i> , 2018, 10, 156.	1.1	0
16	Vortex Creation without Stirring in Coupled Ring Resonators with Gain and Loss. <i>Symmetry</i> , 2018, 10, 195.	1.1	3
17	Supermode spatial solitons via competing nonlocal nonlinearities. <i>Photonics Letters of Poland</i> , 2018, 10, 33.	0.2	7
18	Optical properties of nanostructured gradient index vortex masks. , 2018, , .		0

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19	Development of nanostructured gradient index microlenses for mid infrared. , 2018, , .		0
20	Supermode spatial optical solitons in liquid crystals with competing nonlinearities. Physical Review A, 2017, 95, .	1.0	29
21	Influence of temperature on dispersion properties of photonic crystal fibers infiltrated with water. Optical and Quantum Electronics, 2017, 49, 1.	1.5	9
22	Supercontinuum generation in photonic crystal fibres with core filled with toluene. Journal of Optics (United Kingdom), 2017, 19, 125604.	1.0	40
23	Single and double linear and nonlinear flatband chains: Spectra and modes. Physical Review E, 2017, 96, 012204.	0.8	12
24	Applicability of suspended-core fibres for attenuation-based label-free biosensing. Optics Communications, 2017, 402, 290-295.	1.0	2
25	Modulational instability of coupled ring waveguides with linear gain and nonlinear loss. Scientific Reports, 2017, 7, 4089.	1.6	8
26	Semi-analytical approach to supermode spatial solitons formation in nematic liquid crystals. Optics Express, 2017, 25, 23893.	1.7	14
27	Dispersion characteristics of a suspended-core optical fiber infiltrated with water. Applied Optics, 2017, 56, 1012.	2.1	13
28	"Optical processes in nanostructures with gain and loss". , 2017, , .		1
29	Spectroscopy of cross correlations of environmental noises with two qubits. Physical Review A, 2016, 94, .	1.0	37
30	Spontaneous symmetry breaking of self-trapped and leaky modes in quasi-double-well potentials. Physical Review A, 2016, 93, .	1.0	9
31	Dispersion engineering in nonlinear soft glass photonic crystal fibers infiltrated with liquids. Applied Optics, 2016, 55, 5033.	2.1	27
32	Cauchyâ€Schwarz inequality for general measurements as an entanglement criterion. Quantum Information Processing, 2016, 15, 269-278.	1.0	7
33	Linear and nonlinear light beam propagation in chiral nematic liquid crystal waveguides. Photonics Letters of Poland, 2016, 8, .	0.2	1
34	Conference on Nonlinear Optics and Novel Materials. Photonics Letters of Poland, 2016, 8, .	0.2	0
35	Four-wave mixing in a parity-time (PT)-symmetric coupler. Optics Letters, 2015, 40, 5291.	1.7	18
36	Dispersion engineering in soft glass photonic crystal fibers infiltrated with liquids. Proceedings of SPIE, 2015, , .	0.8	0

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37	Temperature sensitivity of photonic crystal fibers infiltrated with ethanol solutions. , 2015, , .		0
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	Four-wave mixing with Bose-Einstein condensates in nonlinear lattices. Europhysics Letters, 2014, 105, 64002.	0.7	4
40	Stabilization of solitons under competing nonlinearities by external potentials. Chaos, 2014, 24, 043136.	1.0	9
41	Symmetry breaking in the collisions of double channel BEC solitons. Physica D: Nonlinear Phenomena, 2014, 269, 37-41.	1.3	1
42	Spatial control of the competition between self-focusing and self-defocusing nonlinearities in one- and two-dimensional systems. Physical Review A, 2014, 90, .	1.0	7
43	Feshbach Resonance without a Closed-Channel Bound State. Physical Review Letters, 2013, 111, 155301.	2.9	3
44	Cold and trapped metastable noble gases. Reviews of Modern Physics, 2012, 84, 175-210.	16.4	119
45	An extended representation of three-spin-component Bose-Einstein condensate solitons. Physica D: Nonlinear Phenomena, 2012, 241, 1811-1814.	1.3	5
46	Symmetric and asymmetric solitons trapped in H -shaped potentials. Physical Review A, 2011, 84, .	1.0	14
47	Revivals in an attractive Bose-Einstein condensate in a double-well potential and their decoherence. Physical Review A, 2011, 83, .	1.0	16
48	Class of compact entities in three-component Bose-Einstein condensates. Physical Review A, 2011, 83, .	1.0	13
49	Bose-Einstein condensate in a double well potential in the vicinity of a critical point. Laser Physics, 2010, 20, 671-677.	0.6	12
50	Spontaneous Four-Wave Mixing of de Broglie Waves: Beyond Optics. Physical Review Letters, 2010, 104, 150402.	2.9	47
51	Oscillating Solitons in a Three-Component Bose-Einstein Condensate. Physical Review Letters, 2010, 105, 125302.	2.9	37
52	Two-dimensional solitons in media with stripe-shaped nonlinearity modulation. Physical Review E, 2010, 82, 046602.	0.8	32
53	Thermal effects in light scattering from ultracold bosons in an optical lattice. Physical Review A, 2009, 80, .	1.0	15
54	Matter wave soliton collisions in the quasi one-dimensional potential. Physica D: Nonlinear Phenomena, 2009, 238, 1449-1455.	1.3	1

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55	Critical fluctuations of an attractive Bose gas in a double-well potential. Europhysics Letters, 2008, 83, 64007.	0.7	30
56	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
57	Discrete self-trapping vs. defocusing in nonlinear waveguide arrays. , 2006, , .		0
58	Crossover from self-defocusing to discrete trapping in nonlinear waveguide arrays. Optics Express, 2006, 14, 254.	1.7	62
59	Stabilization of three-dimensional light bullets by a transverse lattice in a Kerr medium with dispersion management. Optics Communications, 2006, 259, 49-54.	1.0	10
60	Simulation of a Single Collision of Two Bose-Einstein Condensates. Physical Review Letters, 2006, 97, 170404.	2.9	18
61	Elastic scattering losses from colliding Bose-Einstein condensates. Physical Review A, 2006, 73, .	1.0	25
62	Simple and efficient generation of gap solitons in Bose-Einstein condensates. Physical Review A, 2006, 73, .	1.0	22
63	Method for obtaining exact solutions of the nonlinear Schrödinger equation for a double-square-well potential. Physical Review A, 2006, 73, .	1.0	31
64	Stabilization of three-dimensional matter-waves solitons in an optical lattice. Europhysics Letters, 2005, 70, 8-14.	0.7	34
65	Observation of critical self focusing during propagation of femtosecond light pulses in bulk media. , 2005, , .		0
66	Two- and three-dimensional light bullets in a Kerr medium with dispersion management. , 2005, , .		1
67	Quantum Multimode Model of Elastic Scattering from Bose-Einstein Condensates. Physical Review Letters, 2005, 94, 200401.	2.9	35
68	Loading Bose-Einstein-condensed atoms into the ground state of an optical lattice. Physical Review A, 2005, 72, .	1.0	6
69	Stabilization of Light Bullets by a Transverse Lattice in a Kerr Medium with Dispersion Management. , 2005, , .		1
70	Elastic scattering losses in the four-wave mixing of Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L391-L398.	0.6	7
71	Highly nonlinear dynamics of third-harmonic generation by focused beams. Physical Review A, 2004, 69, .	1.0	12
72	Pair-correlation function of a metastable helium Bose-Einstein condensate. Physical Review A, 2004, 69, .	1.0	2

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73	Enhancement of third harmonic generation by wave vector mismatch to counter phase-modulation. Optics Communications, 2004, 229, 391-395.	1.0	7
74	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
75	Useful models of four-wave mixing in Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4327-4337.	0.6	1
76	Propagation of ultrashort pulses through transparent dielectrics in nonlinear regime. , 2003, , .		0
77	Nonlinear propagation of femtosecond laser pulses in dielectrics. , 2003, 5258, 20.		0
78	Bose-Einstein condensates in time-dependent light potentials: Adiabatic and nonadiabatic behavior of nonlinear wave equations. Physical Review A, 2002, 65, .	1.0	33
79	Adiabaticity in nonlinear quantum dynamics: Bose-Einstein condensate in a time-varying box. Physical Review A, 2002, 65, .	1.0	25
80	Publisher's note: Adiabaticity in nonlinear quantum dynamics: Bose-Einstein condensate in a time-varying box [Phys. Rev. A 65, 033607 (2002)]. Physical Review A, 2002, 65, .	1.0	1
81	Spontaneous emission of atoms via collisions of Bose-Einstein condensates. Physical Review A, 2002, 65, .	1.0	34
82	An improved nonlinear optical pulse propagation equation. Optics Communications, 2002, 210, 385-391.	1.0	16
83	Nonlinear optical pulse propagation: expansion to all orders in diffraction and dispersion. , 2001, , .		1
84	Nonlinear atom optics: four-wave mixing. , 2000, 3928, 272.		0
85	Theory of four-wave mixing of matter waves from a Bose-Einstein condensate. Physical Review A, 2000, 62, .	1.0	85
86	Elastic Scattering Loss of Atoms from Colliding Bose-Einstein Condensate Wave Packets. Physical Review Letters, 2000, 84, 5462-5465.	2.9	63
87	Structure of binary Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 4017-4031.	0.6	201
88	Coherence properties of an atom laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 47-54.	0.6	27
89	Measurement of the Coherence of a Bose-Einstein Condensate. Physical Review Letters, 1999, 83, 3112-3115.	2.9	169
90	Four-wave mixing with matter waves. Nature, 1999, 398, 218-220.	13.7	406

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91	Radio-frequency output coupling of the Bose-Einstein condensate for atom lasers. <i>Physical Review A</i> , 1999, 59, 3823-3831.	1.0	31
92	Probing evanescent modes from near-field optical microscopes. <i>Ultramicroscopy</i> , 1998, 71, 31-38.	0.8	0
93	Four wave mixing in the scattering of Bose-Einstein condensates. <i>Optics Express</i> , 1998, 3, 530.	1.7	50
94	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
95	Dynamics of short intense pulse propagation in dispersive media. , 1998, 3264, 132.		0
96	Dynamics of short-pulse splitting in dispersive nonlinear media. <i>Physical Review A</i> , 1997, 56, 4242-4253.	1.0	33
97	Near-field and far-field propagation of beams and pulses in dispersive media. <i>Optics Letters</i> , 1997, 22, 579.	1.7	11
98	Propagation of light pulses in nonisotropic media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 1403.	0.9	17
99	Optical Wave-Packet Propagation in Nonisotropic Media. <i>Physical Review Letters</i> , 1996, 76, 1457-1460.	2.9	14
100	Full quantum state determination via time dependent spectrum data. <i>Journal of Chemical Physics</i> , 1996, 105, 8463-8466.	1.2	3
101	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
102	Angular distribution of photoelectrons in the above-threshold ionization of atomic hydrogen. <i>Physical Review A</i> , 1988, 37, 4194-4200.	1.0	15
103	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
104	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
105	Linear-versus-nonlinear regime in macroscopic quantum fluctuations of Stokes pulses. <i>Physical Review A</i> , 1985, 31, 1932-1935.	1.0	7