Dumitru Mihalache

List of Publications by Citations

306 papers	8,603 citations	49 h-index	76 g-index
324 ext. papers	9,583 ext. citations	3.1 avg, IF	6.35 L-index

#	Paper	IF	Citations
306	Spatiotemporal optical solitons. *Journal of Optics B: Quantum and Semiclassical Optics*, **2005**, 7, R53-R72		657
305	Models of few optical cycle solitons beyond the slowly varying envelope approximation. *Physics Reports*, **2013**, 523, 61-126	27.7	258
304	Stable spinning optical solitons in three dimensions. *Physical Review Letters*, **2002**, 88, 073902	7.4	178
303	Exact soliton solutions and nonlinear modulation instability in spinor Bose-Einstein condensates. *Physical Review A*, **2005**, 72,	2.6	165
302	Lattice solitons in PT-symmetric mixed linear-nonlinear optical lattices. *Physical Review A*, **2012**, 85,	2.6	145
301	Exact dispersion relations for transverse magnetic polarized guided waves at a nonlinear interface. *Optics Letters*, **1987**, 12, 187-9	3	131
300	Stable vortex tori in the three-dimensional cubic-quintic Ginzburg-Landau equation. *Physical Review Letters*, **2006**, 97, 073904	7.4	122
299	Walking Solitons in Quadratic Nonlinear Media. *Physical Review Letters*, **1996**, 77, 2455-2458	7.4	118
298	Dyakonov Surface Waves: A Review. *Electromagnetics*, **2008**, 28, 126-145	0.8	116
297	Few-optical-cycle solitons: Modified Korteweg□de Vries sine-Gordon equation versus other non□slowly-varying-envelope-approximation models. *Physical Review A*, **2009**, 79,	2.6	115
296	Versatile rogue waves in scalar, vector, and multidimensional nonlinear systems. *Journal of Physics A: Mathematical and Theoretical*, **2017**, 50, 463001	2	113
295	Stable vortex solitons in the two-dimensional Ginzburg-Landau equation. *Physical Review E*, **2001**, 63, 016605	2.4	109
294	Stable three-dimensional spatiotemporal solitons in a two-dimensional photonic lattice. *Physical Review E*, **2004**, 70, 055603	2.4	103
293	P-Polarized nonlinear surface polaritons in layered structures. *European Physical Journal B*, **1982**, 47, 167-173	1.2	96
292	Painlev□analysis and bright solitary waves of the higher-order nonlinear Schr□dinger equation containing third-order dispersion and self-steepening term. *Physical Review E*, **1997**, 56, 1064-1070	2.4	90
291	Multipole vector solitons in nonlocal nonlinear media. *Optics Letters*, **2006**, 31, 1483-5	3	90
290	Vortex stability in nearly-two-dimensional Bose-Einstein condensates with attraction. *Physical Review A*, **2006**, 73,	2.6	87

289	Stable spatiotemporal solitons in bessel optical lattices. *Physical Review Letters*, **2005**, 95, 023902	7.4	85
288	Stability of spinning ring solitons of the cubic–quintic nonlinear Schrödinger equation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2001**, 288, 292-298	2.3	84
287	Subwavelength plasmonic lattice solitons in arrays of metallic nanowires. *Physical Review Letters*, **2010**, 104, 106802	7.4	81
286	Vector rogue waves in the Manakov system: diversity and compossibility. *Journal of Physics A: Mathematical and Theoretical*, **2015**, 48, 215202	2	79
285	Stable vortex dipoles in nonrotating Bose-Einstein condensates. *Physical Review A*, **2003**, 68,	2.6	78
284	On multidimensional solitons and their legacy in contemporary Atomic, Molecular and Optical physics. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2016**, 49, 170502	1.3	77
283	Stability of vortex solitons in the cubic-quintic model. *Physica D: Nonlinear Phenomena*, **2002**, 161, 187-201	3.3	75
282	Three-dimensional spinning solitons in the cubic-quintic nonlinear medium. *Physical Review E*, **2000**, 61, 7142-5	2.4	73
281	Varieties of stable vortical solitons in Ginzburg-Landau media with radially inhomogeneous losses. *Physical Review Letters*, **2010**, 105, 213901	7.4	72
280	Exact soliton-on-plane-wave solutions for two-component Bose-Einstein condensates. *Physical Review E*, **2006**, 73, 066610	2.4	71
279	Soliton "molecules": robust clusters of spatiotemporal optical solitons. *Physical Review E*, **2003**, 67, 046610	2.4	71
278	Inverse-scattering approach to femtosecond solitons in monomode optical fibers. *Physical Review E* , **1993**, 48, 4699-4709	2.4	69
277	Stability of dissipative optical solitons in the three-dimensional cubic-quintic Ginzburg-Landau equation. *Physical Review A*, **2007**, 75,	2.6	68
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275	One-soliton shaping and two-soliton interaction in the fifth-order variable-coefficient nonlinear Schrödinger equation. *Nonlinear Dynamics*, **2019**, 95, 369-380	5	68
274	Three-dimensional spatiotemporal optical solitons in nonlocal nonlinear media. *Physical Review E*, **2006**, 73, 025601	2.4	67
273	Few-cycle nonlinear optics of multicomponent media. *Physical Review A*, **2006**, 74,	2.6	64
272	IV Nonlinear Wave Propagation in Planar Structures. *Progress in Optics*, **1989**, 27, 227-313	3.4	63

271	Robust propagation of two-color soliton clusters supported by competing nonlinearities. *Physical Review Letters*, **2002**, 89, 273902	7.4	61
270	Stable three-dimensional spinning optical solitons supported by competing quadratic and cubic nonlinearities. *Physical Review E*, **2002**, 66, 016613	2.4	61
269	Exact solution for nonlinear thin-film guided waves in higher-order nonlinear media. *Journal of the Optical Society of America B: Optical Physics*, **1988**, 5, 565	1.7	55
268	Exact solutions of the Gross-Pitaevskii equation for stable vortex modes in two-dimensional Bose-Einstein condensates. *Physical Review A*, **2010**, 81,	2.6	54
267	Quasiadiabatic following of femtosecond optical pulses in a weakly excited semiconductor. *Physical Review A*, **1997**, 56, 1569-1576	2.6	54
266	Asymmetric spatio-temporal optical solitons in media with quadratic nonlinearity. *Optics Communications*, **1998**, 152, 365-370	2	54
265	Generation, compression, and propagation of pulse trains in the nonlinear Schrödinger equation with distributed coefficients. *Physical Review E*, **2005**, 72, 036614	2.4	54
264	Stability of Walking Vector Solitons. *Physical Review Letters*, **1998**, 81, 4353-4356	7.4	53
263	Stable solitons of even and odd parities supported by competing nonlocal nonlinearities. *Physical Review E*, **2006**, 74, 066614	2.4	52
262	Generation of surface soliton arrays. *Optics Letters*, **2006**, 31, 2329-31	3	52
261	Tandem light bullets. *Optics Communications*, **2001**, 199, 277-281	2	52
260	The Riemann problem method for solving a perturbed nonlinear Schrodinger equation describing pulse propagation in optic fibres. *Journal of Physics A*, **1994**, 27, 6177-6189		52
259	Stability of spatial solitary waves in quadratic media. *Optics Letters*, **1995**, 20, 2183	3	51
258	Stationary trapping of light beams in bulk second-order nonlinear media. *Optics Communications*, **1995**, 121, 149-155	2	50
257	Generation, compression and propagation of pulse trains under higher-order effects. *Optics Communications*, **2006**, 263, 328-336	2	49
256	Third-Order Nonlinear Electromagnetic TE and TM Guided Waves. *Modern Problems in Condensed Matter Sciences*, **1991**, 73-287		49
255	Solitons in PT-symmetric optical lattices with spatially periodic modulation of nonlinearity. *Optics Communications*, **2012**, 285, 3320-3324	2	48
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253	Erupting, flat-top, and composite spiral solitons in the two-dimensional Ginzburg□andau equation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2001**, 289, 59-65	2.3	44
252	Stable spatiotemporal spinning solitons in a bimodal cubic-quintic medium. *Physical Review E*, **2003**, 67, 056608	2.4	43
251	Robust soliton clusters in media with competing cubic and quintic nonlinearities. *Physical Review E*, **2003**, 68, 046612	2.4	43
250	Elliptical light bullets. *Optics Communications*, **1999**, 159, 129-138	2	43
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248	Generation of stable multi-vortex clusters in a dissipative medium with anti-cubic nonlinearity. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 2579-2583	2.3	42
247	Families of exact solutions of a new extended (varvec{(2+1)})-dimensional Boussinesq equation. *Nonlinear Dynamics*, **2018**, 91, 2593-2605	5	41
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245	Soliton solutions for a perturbed nonlinear Schrodinger equation. *Journal of Physics A*, **1993**, 26, L757-L765		41
244	Two-parameter family of exact solutions of the nonlinear Schr□inger equation describing optical-soliton propagation. *Physical Review A*, **1993**, 47, 3285-3290	2.6	40
243	Rogue-wave bullets in a composite (2+1)D nonlinear medium. *Optics Express*, **2016**, 24, 15251-60	3.3	39
242	Spatiotemporal surface solitons in two-dimensional photonic lattices. *Optics Letters*, **2007**, 32, 3173-5	3	39
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240	Soliton dynamics in a fractional complex Ginzburg-Landau model. *Chaos, Solitons and Fractals*, **2020**, 131, 109471	9.3	39
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229	Two-dimensional solitons with hidden and explicit vorticity in bimodal cubic-quintic media. *Physical Review E*, **2005**, 71, 026615	2.4	32
228	Stable vortex solitons in the Ginzburg-Landau model of a two-dimensional lasing medium with a transverse grating. *Physical Review A*, **2009**, 80,	2.6	31
227	Ultrashort spatiotemporal optical solitons in quadratic nonlinear media: Generation of line and lump solitons from few-cycle input pulses. *Physical Review A*, **2009**, 80,	2.6	31
226	Optical Dyakonov surface waves at magnetic interfaces. *Optics Letters*, **2005**, 30, 3075-7	3	31
225	Breatherlike solitons extracted from the Peregrine rogue wave. *Physical Review E*, **2014**, 90, 062909	2.4	30
224	Spatiotemporal optical solitons in carbon nanotube arrays. *Physical Review A*, **2012**, 86,	2.6	30
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222	An additional kind of nonlinear s-polarized surface plasmon polaritons. *Solid State Communications*, **1986**, 59, 151-153	1.6	30
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218	Semi-rational solutions for the(2+1)-dimensional nonlocal Fokas system. *Applied Mathematics Letters*, **2018**, 80, 27-34	3.5	29

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213	. *IEEE Journal of Quantum Electronics*, **1991**, 27, 238-242	2	28
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207	Subwavelength vortical plasmonic lattice solitons. *Optics Letters*, **2011**, 36, 1179-81	3	26
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204	Interaction of few-optical-cycle solitons. *Physical Review A*, **2008**, 78,	2.6	26
203	Dynamics and interaction scenarios of localized wave structures in the Kadomtsev–Petviashvili-based system. *Applied Mathematics Letters*, **2019**, 94, 166-173	3.5	25
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183	Formation of complex two-dimensional dissipative solitons via spontaneous symmetry breaking. *Physical Review A*, **2014**, 90,	2.6	20
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168	Metastable soliton necklaces supported by fractional diffraction and competing nonlinearities. *Optics Express*, **2020**, 28, 34472-34488	3.3	19
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166	Completely resonant collision of lumps and line solitons in the Kadomtsev□Petviashvili I equation. *Studies in Applied Mathematics*, **2021**, 147, 1007-1035	2.1	19
165	Collisions between discrete surface spatiotemporal solitons in nonlinear waveguide arrays. *Physical Review A*, **2009**, 79,	2.6	18
164	Analytic method for solving the modified nonlinear Schr□inger equation describing soliton propagation along optical fibers. *Physical Review A*, **1993**, 47, 3190-3194	2.6	18

163	Stabilization of single- and multi-peak solitons in the fractional nonlinear Schrödinger equation with a trapping potential. *Chaos, Solitons and Fractals*, **2020**, 140, 110222	9.3	18
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161	Collisions of three-dimensional bipolar optical solitons in an array of carbon nanotubes. *Physical Review A*, **2016**, 94,	2.6	17
160	Soliton drift, rebound, penetration, and trapping at the interface between media with uniform and spatially modulated nonlinearities. *Optics Letters*, **2010**, 35, 1716-8	3	17
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158	Spatiotemporal surface Ginzburg-Landau solitons. *Physical Review A*, **2008**, 77,	2.6	17
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156	Nonlinear hybrid waves guided by birefringent interfaces. *Electronics Letters*, **1993**, 29, 1186	1.1	17
155	Exact solutions of the nonlinear Schrödinger equation for the normal-dispersion regime in optical fibers. *Physical Review A*, **1992**, 45, 6730-6734	2.6	17
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