

Gino Biondini

List of Publications by Year in Descending Order

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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.

125
papers

2,383
citations

28
h-index

43
g-index

146
ext. papers

2,821
ext. citations

2.4
avg, IF

5.56
L-index

#	Paper	IF	Citations
125	p-star models, mean-field random networks, and the heat hierarchy.. <i>Physical Review E</i> , 2022 , 105, 0143064	2.4	0
124	Solitons and soliton interactions in repulsive spinor Bose-Einstein condensates with nonzero background. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	0
123	Evolution of truncated and bent gravity wave solitons: the Mach expansion problem. <i>Journal of Fluid Mechanics</i> , 2021 , 909,	3.7	1
122	Long-Time Asymptotics for the Focusing Nonlinear Schrödinger Equation with Nonzero Boundary Conditions in the Presence of a Discrete Spectrum. <i>Communications in Mathematical Physics</i> , 2021 , 382, 1495-1577	2	5
121	Excitation of switching waves in normally dispersive Kerr cavities. <i>Optics Letters</i> , 2021 , 46, 2481-2484	3	1
120	Oblique interactions between solitons and mean flows in the Kadomtsev-Petviashvili equation. <i>Nonlinearity</i> , 2021 , 34, 3583-3617	1.7	1
119	Inverse scattering transform for the focusing nonlinear Schrödinger equation with counterpropagating flows. <i>Studies in Applied Mathematics</i> , 2021 , 146, 371-439	2.1	4
118	On-demand generation of dark soliton trains in Bose-Einstein condensates. <i>Physical Review A</i> , 2021 , 103,	2.6	3
117	Transverse dynamics of vector solitons in defocusing nonlocal media. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	1
116	Semiclassical dynamics and coherent soliton condensates in self-focusing nonlinear media with periodic initial conditions. <i>Studies in Applied Mathematics</i> , 2020 , 145, 325-356	2.1	0
115	Interactions of solitary waves in integrable and nonintegrable lattices. <i>Chaos</i> , 2020 , 30, 043101	3.3	2
114	Integrability, exact reductions and special solutions of the KP-Whitham equations. <i>Nonlinearity</i> , 2020 , 33, 4114-4132	1.7	2
113	Multiscale expansions of vector solitons of a two-dimensional nonlocal nonlinear Schrödinger system. <i>Studies in Applied Mathematics</i> , 2020 , 145, 739-764	2.1	4
112	On the generation and propagation of solitary waves in integrable and nonintegrable nonlinear lattices. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	2
111	Linearizable boundary value problems for the nonlinear Schrödinger equation in laboratory coordinates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 494-503	2.3	1
110	Nonlinear interactions between solitons and dispersive shocks in focusing media. <i>Physical Review E</i> , 2019 , 99, 022215	2.4	3
109	Inverse scattering transform for two-level systems with nonzero background. <i>Journal of Mathematical Physics</i> , 2019 , 60, 073510	1.2	1

108	Discrete and continuous coupled nonlinear integrable systems via the dressing method. <i>Studies in Applied Mathematics</i> , 2019 , 142, 139-161	2.1	4
107	Solitons and rogue waves in spinor Bose-Einstein condensates. <i>Physical Review E</i> , 2018 , 97, 022221	2.4	16
106	Dark-bright soliton pairs: Bifurcations and collisions. <i>Physical Review A</i> , 2018 , 97,	2.6	9
105	Whitham modulation theory for $(2 + 1)$ -dimensional equations of Kadomtsev-Petviashvili type. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018 , 51, 215501	2	9
104	Resonant optical pulses on a continuous-wave background in two-level active media. <i>Europhysics Letters</i> , 2018 , 121, 20001	1.6	2
103	Auto-modulation versus breathers in the nonlinear stage of modulational instability. <i>Optics Letters</i> , 2018 , 43, 5291-5294	3	17
102	Evolution partial differential equations with discontinuous data. <i>Quarterly of Applied Mathematics</i> , 2018 , 77, 689-726	0.7	5
101	Universal Behavior of Modulationally Unstable Media. <i>SIAM Review</i> , 2018 , 60, 888-908	7.4	25
100	Riemann problems and dispersive shocks in self-focusing media. <i>Physical Review E</i> , 2018 , 98,	2.4	8
99	Soliton interactions and degenerate soliton complexes for the focusing nonlinear Schrödinger equation with nonzero background. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	8
98	Soliton trapping, transmission, and wake in modulationally unstable media. <i>Physical Review E</i> , 2018 , 98,	2.4	10
97	Imaginary eigenvalues of Zakharov-Shabat problems with non-zero background. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 2632-2637	2.3	3
96	On the focusing non-linear Schrödinger equation with non-zero boundary conditions and double poles. <i>IMA Journal of Applied Mathematics</i> , 2017 , 82, 131-151	1	43
95	Gibbs Phenomenon for Dispersive PDEs on the Line. <i>SIAM Journal on Applied Mathematics</i> , 2017 , 77, 813-837	1.8	8
94	On the degenerate soliton solutions of the focusing nonlinear Schrödinger equation. <i>Journal of Mathematical Physics</i> , 2017 , 58, 033507	1.2	14
93	Whitham modulation theory for the two-dimensional Benjamin-Ono equation. <i>Physical Review E</i> , 2017 , 96, 032225	2.4	6
92	Whitham modulation theory for the Kadomtsev- Petviashvili equation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20160695	2.4	8
91	Recurrence due to periodic multisoliton fission in the defocusing nonlinear Schrödinger equation. <i>Physical Review E</i> , 2017 , 96, 052213	2.4	2

90	Long-Time Asymptotics for the Focusing Nonlinear Schrödinger Equation with Nonzero Boundary Conditions at Infinity and Asymptotic Stage of Modulational Instability. <i>Communications on Pure and Applied Mathematics</i> , 2017 , 70, 2300-2365	2.5	45
89	Preface: Mark J. Ablowitz, nonlinear waves and integrable systems. Part I. <i>Studies in Applied Mathematics</i> , 2016 , 137, 3-9	2.1	1
88	Universal Nature of the Nonlinear Stage of Modulational Instability. <i>Physical Review Letters</i> , 2016 , 116, 043902	7.4	71
87	Preface: Mark J. Ablowitz, nonlinear waves and integrable systems. Part II. <i>Studies in Applied Mathematics</i> , 2016 , 137, 157-158	2.1	
86	Oscillation structure of localized perturbations in modulationally unstable media. <i>Physical Review E</i> , 2016 , 94, 060201	2.4	38
85	Inverse scattering transform for the defocusing nonlinear Schrödinger equation with fully asymmetric non-zero boundary conditions. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 333, 117-136	3.3	25
84	The Three-Component Defocusing Nonlinear Schrödinger Equation with Nonzero Boundary Conditions. <i>Communications in Mathematical Physics</i> , 2016 , 348, 475-533	2	32
83	Experimental Observation and Theoretical Description of Multisoliton Fission in Shallow Water. <i>Physical Review Letters</i> , 2016 , 117, 144102	7.4	33
82	Small dispersion limit of the Korteweg-de Vries equation with periodic initial conditions and analytical description of the Zakharov-Kruskal experiment. <i>Physica D: Nonlinear Phenomena</i> , 2016 , 333, 137-147	3.3	7
81	The focusing Manakov system with nonzero boundary conditions. <i>Nonlinearity</i> , 2015 , 28, 3101-3151	1.7	26
80	Novel systems of resonant wave interactions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015 , 48, 225203	2	3
79	Dark-bright soliton solutions with nontrivial polarization interactions for the three-component defocusing nonlinear Schrödinger equation with nonzero boundary conditions. <i>Journal of Mathematical Physics</i> , 2015 , 56, 071505	1.2	26
78	Polarization interactions in multi-component defocusing media. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015 , 48, 395202	2	8
77	The Ablowitz-Ladik system with linearizable boundary conditions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015 , 48, 375202	2	7
76	An Introduction to Rare Event Simulation and Importance Sampling. <i>Handbook of Statistics</i> , 2015 , 33, 29-68	0.6	3
75	Inverse Scattering Transform for the Defocusing Manakov System with Nonzero Boundary Conditions. <i>SIAM Journal on Mathematical Analysis</i> , 2015 , 47, 706-757	1.7	34
74	The Integrable Nature of Modulational Instability. <i>SIAM Journal on Applied Mathematics</i> , 2015 , 75, 136-163		32
73	Hybrid Hinge Model for Polarization-Mode Dispersion in Installed Fiber Transmission Systems. <i>Journal of Lightwave Technology</i> , 2014 , 32, 1412-1419	4	5

72	Inverse scattering transform for the focusing nonlinear Schrödinger equation with nonzero boundary conditions. <i>Journal of Mathematical Physics</i> , 2014 , 55, 031506	1.2	133
71	Detailed comparison of numerical methods for the perturbed sine-Gordon equation with impulsive forcing. <i>Journal of Engineering Mathematics</i> , 2014 , 87, 167-186	1.2	11
70	On the Spectrum of the Dirac Operator and the Existence of Discrete Eigenvalues for the Defocusing Nonlinear Schrödinger Equation. <i>Studies in Applied Mathematics</i> , 2014 , 132, 138-159	2.1	20
69	On the Efficiency of Importance Sampling Techniques for Polarization-Mode Dispersion in Optical Fiber Transmission Systems. <i>SIAM Journal on Applied Mathematics</i> , 2013 , 73, 155-174	1.8	2
68	On the Nonlinear Schrödinger Equation on the Half Line with Homogeneous Robin Boundary Conditions. <i>Studies in Applied Mathematics</i> , 2012 , 129, 249-271	2.1	26
67	Inverse Scattering Transform for the Multi-Component Nonlinear Schrödinger Equation with Nonzero Boundary Conditions. <i>Studies in Applied Mathematics</i> , 2011 , 126, 245-302	2.1	35
66	The Ablowitz-Ladik system on the natural numbers with certain linearizable boundary conditions. <i>Applicable Analysis</i> , 2010 , 89, 627-644	0.8	5
65	Initial-boundary-value problems for discrete linear evolution equations. <i>IMA Journal of Applied Mathematics</i> , 2010 , 75, 968-997	1	7
64	On the soliton solutions of the two-dimensional Toda lattice. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 434007	2	4
63	Outage Statistics in a Waveplate Hinge Model of Polarization-Mode Dispersion. <i>Journal of Lightwave Technology</i> , 2010 , 28, 1958-1968	4	9
62	Importance Sampling for Dispersion-Managed Solitons. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010 , 9, 432-461	2.8	5
61	Solitons, boundary value problems and a nonlinear method of images. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 205207	2	21
60	Soliton Interactions of the Kadomtsev-Petviashvili Equation and Generation of Large-Amplitude Water Waves. <i>Studies in Applied Mathematics</i> , 2009 , 122, 377-394	2.1	17
59	Phase noise of dispersion-managed solitons. <i>Physical Review A</i> , 2009 , 80,	2.6	5
58	A Method to Compute Statistics of Large, Noise-Induced Perturbations of Nonlinear Schrödinger Solitons. <i>SIAM Review</i> , 2008 , 50, 523-549	7.4	18
57	Anisotropic hinge model for polarization-mode dispersion in installed fibers. <i>Optics Letters</i> , 2008 , 33, 1924-6	3	10
56	. <i>Journal of Lightwave Technology</i> , 2008 , 26, 2110-2117	4	4
55	Statistics of Polarization-Mode Dispersion Emulators with Unequal Sections. <i>SIAM Journal on Applied Mathematics</i> , 2008 , 69, 552-564	1.8	2

54	The dispersion-managed Ginzburg-Landau equation and its application to femtosecond lasers. <i>Nonlinearity</i> , 2008 , 21, 2849-2870	1.7	7
53	Initial-boundary-value problems for discrete evolution equations: discrete linear Schrödinger and integrable discrete nonlinear Schrödinger equations. <i>Inverse Problems</i> , 2008 , 24, 065011	2.3	20
52	Elastic and inelastic line-soliton solutions of the Kadomtsev-Petviashvili II equation. <i>Mathematics and Computers in Simulation</i> , 2007 , 74, 237-250	3.3	28
51	Line soliton interactions of the Kadomtsev-Petviashvili equation. <i>Physical Review Letters</i> , 2007 , 99, 064103	3.4	46
50	Noise-induced perturbations of dispersion-managed solitons. <i>Physical Review A</i> , 2007 , 75,	2.6	10
49	Inverse scattering transform for the integrable discrete nonlinear Schrödinger equation with nonvanishing boundary conditions. <i>Inverse Problems</i> , 2007 , 23, 1711-1758	2.3	52
48	A Method to Compute Statistics of Large, Noise-Induced Perturbations of Nonlinear Schrödinger Solitons. <i>SIAM Journal on Applied Mathematics</i> , 2007 , 67, 1418-1439	1.8	16
47	Inverse scattering transform for the vector nonlinear Schrödinger equation with nonvanishing boundary conditions. <i>Journal of Mathematical Physics</i> , 2006 , 47, 063508	1.2	92
46	Soliton solutions of the Kadomtsev-Petviashvili II equation. <i>Journal of Mathematical Physics</i> , 2006 , 47, 033514	1.2	79
45	Correction to Importance Sampling for Polarization-Mode Dispersion: Techniques and Applications. <i>Journal of Lightwave Technology</i> , 2006 , 24, 1065-1065	4	2
44	On the Whitham Equations for the Defocusing Nonlinear Schrodinger Equation with Step Initial Data. <i>Journal of Nonlinear Science</i> , 2006 , 16, 435-481	2.8	31
43	Polarization-dependent chromatic dispersion and its impact on return-to-zero transmission formats. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1866-1868	2.2	8
42	Periodic-Group-Delay Dispersion Compensation Reduces Collision-Induced Timing Shifts in Dispersion-Managed Quasilinear Systems. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2005 , 144, 881-887	0.7	
41	Resonance and web structure in discrete soliton systems: the two-dimensional Toda lattice and its fully discrete and ultra-discrete analogues. <i>Journal of Physics A</i> , 2004 , 37, 11819-11839		24
40	Applications of importance sampling to polarization mode dispersion. <i>Journal of Optical and Fiber Communications Research</i> , 2004 , 1, 14-31		0
39	Polarization-mode dispersion emulation with Maxwellian lengths and importance sampling. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 789-791	2.2	17
38	A comparative study of single-section polarization-mode dispersion compensators. <i>Journal of Lightwave Technology</i> , 2004 , 22, 1023-1032	4	15
37	Importance sampling for polarization-mode dispersion: techniques and applications. <i>Journal of Lightwave Technology</i> , 2004 , 22, 1201-1215	4	42

36	Reduction of collision-induced timing shifts in dispersion-managed quasi-linear systems with periodic-group-delay dispersion compensation. <i>Optics Letters</i> , 2004 , 29, 2354-6	3	5
35	Applications of importance sampling to polarization mode dispersion 2004 , 95-112		
34	On a family of solutions of the Kadomtsev-Petviashvili equation which also satisfy the Toda lattice hierarchy. <i>Journal of Physics A</i> , 2003 , 36, 10519-10536		83
33	IMPORTANCE SAMPLING FOR NOISE-INDUCED AMPLITUDE AND TIMING JITTER IN SOLITON TRANSMISSION SYSTEMS 2003 ,		1
32	Statistical analysis of the performance of PMD compensators using multiple importance sampling. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1716-1718	2.2	12
31	Importance sampling for noise-induced amplitude and timing jitter in soliton transmission systems. <i>Optics Letters</i> , 2003 , 28, 105-7	3	33
30	Four-wave mixing in dispersion-managed return-to-zero systems. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 831	1.7	5
29	Methods for discrete solitons in nonlinear lattices. <i>Physical Review E</i> , 2002 , 65, 026602	2.4	54
28	Collision-induced timing shifts in dispersion-managed soliton systems. <i>Optics Letters</i> , 2002 , 27, 318-20	3	21
27	Self-induced thermal effects and modal competition in continuous-wave optical parametric oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 802	1.7	11
26	Importance sampling for polarization-mode dispersion. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 310-312	3.12	64
25	Analysis of PMD compensators with fixed DGD using importance sampling. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 627-629	2.2	27
24	Multiple importance sampling for first- and second-order polarization-mode dispersion. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1273-1275	2.2	39
23	Correction to "Multiple importance sampling for first- and second-order polarization-mode dispersion". <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1487-1487	2.2	1
22	On the Burgers equation with moving boundary. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 279, 194-206	2.3	4
21	Localized multi-dimensional optical pulses in non-resonant quadratic materials. <i>Mathematics and Computers in Simulation</i> , 2001 , 56, 511-519	3.3	11
20	Optimization of a PMD compensator with constant differential group delay using importance sampling 2001 ,		1
19	Nonlinear Schrödinger equations with mean terms in nonresonant multidimensional quadratic materials. <i>Physical Review E</i> , 2001 , 63, 046605	2.4	30

18	Quasi-linear optical pulses in strongly dispersion-managed transmission systems. <i>Optics Letters</i> , 2001 , 26, 459-61	3	47
17	Nonlinear chirp of dispersion-managed return-to-zero pulses. <i>Optics Letters</i> , 2001 , 26, 1761-3	3	19
16	Incomplete collisions of wavelength-division multiplexed dispersion-managed solitons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001 , 18, 577	1.7	38
15	On the Evolution and Interaction of Dispersion-Managed Solitons 2000 , 75-114		2
14	Optical solitons: Perspectives and applications. <i>Chaos</i> , 2000 , 10, 471-474	3.3	37
13	A comparison between lumped and distributed filter models in wavelength-division multiplexed soliton systems. <i>Optics Communications</i> , 1999 , 172, 211-227	2	9
12	On timing Jitter in wavelength-division multiplexed soliton systems. <i>Optics Communications</i> , 1998 , 150, 305-318	2	28
11	Multiscale pulse dynamics in communication systems with strong dispersion management. <i>Optics Letters</i> , 1998 , 23, 1668-70	3	203
10	Four-wave mixing in wavelength-division-multiplexed soliton systems: ideal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 1788	1.7	20
9	On the well-posedness of the Eckhaus equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 230, 319-323	2.3	0
8	Multi-dimensional pulse propagation in non-resonant (\mathbb{R}) materials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 236, 520-524	2.3	25
7	Four-wave mixing in wavelength-division-multiplexed soliton systems: damping and amplification. <i>Optics Letters</i> , 1996 , 21, 1646-8	3	52
6	Semiline solutions of the Burgers equation with time dependent flux at the origin. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996 , 220, 201-204	2.3	5
5	Multicanonical Monte Carlo of first- and second-order PMD		1
4	Analysis of polarization-mode dispersion compensators using importance sampling		7
3	Non-Maxwellian DGD distributions of PMD emulators		10
2	Multiple importance sampling for first- and second-order PMD		3
1	Importance-sampled pulse broadening statistics before and after PMD compensation		3

