Barbara Prinari

List of Publications by Year
in descending order

34	832	471061 17	476904 29
papers	citations	h-index	g-index

34	34	34	219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inverse scattering transform for the vector nonlinear SchrÃ¶dinger equation with nonvanishing boundary conditions. Journal of Mathematical Physics, 2006, 47, 063508.	0.5	121
2	Inverse scattering transform for the integrable discrete nonlinear SchrÃ¶dinger equation with nonvanishing boundary conditions. Inverse Problems, 2007, 23, 1711-1758.	1.0	76
3	The Inverse Scattering Transform for the Defocusing Nonlinear SchrÃ¶dinger Equations with Nonzero Boundary Conditions. Studies in Applied Mathematics, 2013, 131, 1-40.	1.1	75
4	Inverse Scattering Transform for the Multiâ€Component Nonlinear SchrÃ¶dinger Equation with Nonzero Boundary Conditions. Studies in Applied Mathematics, 2011, 126, 245-302.	1.1	48
5	The inverse scattering transform for the focusing nonlinear SchrÃ¶dinger equation with asymmetric boundary conditions. Journal of Mathematical Physics, 2014, 55, 101505.	0.5	47
6	The Three-Component Defocusing Nonlinear SchrÃ¶dinger Equation with Nonzero Boundary Conditions. Communications in Mathematical Physics, 2016, 348, 475-533.	1.0	46
7	Inverse scattering transform for the defocusing nonlinear SchrÃ¶dinger equation with fully asymmetric non-zero boundary conditions. Physica D: Nonlinear Phenomena, 2016, 333, 117-136.	1.3	38
8	Inverse scattering transform and soliton solutions for square matrix nonlinear SchrÃ¶dinger equations with non-zero boundary conditions. Physica D: Nonlinear Phenomena, 2018, 368, 22-49.	1.3	37
9	Dark-bright soliton solutions with nontrivial polarization interactions for the three-component defocusing nonlinear SchrÃ¶dinger equation with nonzero boundary conditions. Journal of Mathematical Physics, 2015, 56, .	0.5	32
10	On the Spectrum of the Dirac Operator and the Existence of Discrete Eigenvalues for the Defocusing Nonlinear SchrÃ¶dinger Equation. Studies in Applied Mathematics, 2014, 132, 138-159.	1.1	29
11	Solitons and rogue waves in spinor Bose-Einstein condensates. Physical Review E, 2018, 97, 022221.	0.8	28
12	Inverse scattering theory of the heat equation for a perturbed one-soliton potential. Journal of Mathematical Physics, 2002, 43, 1044-1062.	0.5	25
13	Discrete solitons of the focusing Ablowitz-Ladik equation with nonzero boundary conditions via inverse scattering. Journal of Mathematical Physics, 2016, 57, .	0.5	22
14	Darkâ€“dark and darkâ€“bright soliton interactions in the two-component defocusing nonlinear SchrÃ¶dinger equation. Applicable Analysis, 2013, 92, 379-397.	0.6	18
15	Inverse Scattering Transform for the Focusing Ablowitz-Ladik System with Nonzero Boundary Conditions. Studies in Applied Mathematics, 2016, 137, 28-52.	1.1	18
16	Inverse scattering transform for the complex short-pulse equation by a Riemannâ€“Hilbert approach. European Physical Journal Plus, 2020, 135, 1.	1.2	18
17	Inverse Scattering Transform and Solitons for Square Matrix Nonlinear SchrÃ¶dinger Equations. Studies in Applied Mathematics, 2018, 141, 308-352.	1.1	17
18	A dynamical systems approach to triadic reciprocal determinism of social cognitive theory. Mathematics and Computers in Simulation, 2019, 159, 18-38.	2.4	16

#	Article	IF	Citations
19	Inverse scattering transform for the defocusing Ablowitzâ€“Ladik system with arbitrarily large nonzero background. Studies in Applied Mathematics, 2019, 143, 373-403.	1.1	15
20	Extended resolvent and inverse scattering with an application to KPI. Journal of Mathematical Physics, 2003, 44, 3309-3340.	0.5	14
21	Discrete Vector Solitons: Composite Solitons, Yang-Baxter Maps and Computation. Studies in Applied Mathematics, 2006, 116, 97-133.	1.1	14
22	Solvability of the Direct and Inverse Problems for the Nonlinear SchrÃ¶dinger Equation. Acta Applicandae Mathematicae, 2005, 87, 245-280.	0.5	11
23	Inverse scattering transform for the complex coupled shortâ€pulse equation. Studies in Applied Mathematics, 2022, 148, 918-963.	1.1	11
24	Inverse scattering transform for the perturbed 1-soliton potential of the heat equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 307-311.	0.9	10
25	Polarization interactions in multi-component defocusing media. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 395202.	0.7	10
26	Soliton interactions in certain square matrix nonlinear SchrÃ¶dinger systems. European Physical Journal Plus, 2020, 135, 1.	1.2	8
27	Inverse Scattering Transform and Solitons for Square Matrix Nonlinear SchrÃ¶dinger Equations with Mixed Sign Reductions and Nonzero Boundary Conditions. Journal of Nonlinear Mathematical Physics, 2019, 27, 130.	0.8	7
28	Multiscale expansions avector solitons of a twoâ€dimensional nonlocal nonlinear SchrÃ¶dinger system. Studies in Applied Mathematics, 2020, 145, 739-764.	1.1	5
29	Analysing quality with generalized kinetic methods. Mathematical and Computer Modelling, 2008, 47, 1150-1166.	2.0	4
30	Solitons and soliton interactions in repulsive spinor Boseâ€“Einstein condensates with nonzero background. European Physical Journal Plus, 2021, 136, 1.	1.2	4
31	Determinant and Pfaffian solutions of the strong coupling limit of integrable discrete NLS systems. Inverse Problems, 2008, 24, 055011.	1.0	3
32	An artificial neural network approach for modeling the ward atmosphere in a medical unit. Mathematics and Computers in Simulation, 2015, 116, 44-58.	2.4	2
33	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math>-star models, mean-field random networks, and the heat hierarchy. Physical Review E, 2022, 105, 014306.	0.8	2
34	Mathematical modeling of quality in a medical structure: A case study. Mathematical and Computer Modelling, 2011, 54, 2087-2103.	2.0	1