Nikolay Tzvetkov

List of Publications by Year
in descending order

53 papers	**1,443** citations	304743 **22** h-index	345221 **36** g-index
53 all docs	**53** docs citations	**53** times ranked	**310** citing authors

#	Article	IF	Citations
1	Quasi-invariance of Gaussian measures for the periodic Benjamin-Ono-BBM equation. Stochastics and Partial Differential Equations: Analysis and Computations, 2023, 11, 651-684.	0.9	1
2	Quasi-invariance of low regularity Gaussian measures under the gauge map of the periodic derivative NLS. Journal of Functional Analysis, 2022, 282, 109263.	1.4	2
3	Quasi-invariant Gaussian measures for the nonlinear wave equation in three dimensions. Probability and Mathematical Physics, 2022, 3, 343-379.	1.5	4
4	Probabilistic local Cauchy theory of the cubic nonlinear wave equation in negative Sobolev spaces. Annales De L'Institut Fourier, 2022, 72, 771-830.	0.6	2
5	On the Nonlinear Wave Equation with Time-periodic Potential. International Mathematics Research Notices, 2021, 2021, 4301-4323.	1.0	1
6	Refined probabilistic global well-posedness for the weakly dispersive NLS. Nonlinear Analysis: Theory, Methods & Applications, 2021, 213, 112530.	1.1	5
7	Polynomial bounds on the Sobolev norms of the solutions of the nonlinear wave equation with time dependent potential. Archiv Der Mathematik, 2020, 114, 71-84.	0.5	0
8	Transport of Gaussian measures by the flow of the nonlinear Schrödinger equation. Mathematische Annalen, 2020, 378, 389-423.	1.4	8
9	New examples of probabilistic well-posedness for nonlinear wave equations. Journal of Functional Analysis, 2020, 278, 108322.	1.4	5
10	Quasi-invariant Gaussian measures for the two-dimensional defocusing cubic nonlinear wave equation. Journal of the European Mathematical Society, 2020, 22, 1785-1826.	1.4	9
11	Concerning the pathological set in the context of probabilistic well-posedness. Comptes Rendus Mathematique, 2020, 358, 989-999.	0.3	3
12	Solving the 4NLS with white noise initial data. Forum of Mathematics, Sigma, 2020, 8, .	0.7	10
13	Gibbs Measure Dynamics for the Fractional NLS. SIAM Journal on Mathematical Analysis, 2020, 52, 4638-4704.	1.9	8
14	Singular Random Dynamics. Lecture Notes in Mathematics, 2019, , .	0.2	0
15	Quasi-invariant Gaussian measures for the cubic nonlinear Schrödinger equation with third-order dispersion. Comptes Rendus Mathematique, 2019, 357, 366-381.	0.3	13
16	Random Data Wave Equations. Lecture Notes in Mathematics, 2019, , 221-313.	0.2	6
17	Remarks on the Gibbs measures for nonlinear dispersive equations. Annales De La Faculté Des Sciences De Toulouse, 2018, 27, 527-597.	0.3	23
18	Quasi-invariant Gaussian measures for the cubic fourth order nonlinear Schrödinger equation. Probability Theory and Related Fields, 2017, 169, 1121-1168.	1.8	34

#	Article	IF	Citations
19	On the growth of Sobolev norms for NLS on 2- and 3-dimensional manifolds. Analysis and PDE, 2017, 10, 1123-1147.	1.4	32
20	Well-posedness and scattering for nonlinear Schrödinger equations on $\mathbb{R}^d \times \mathbb{T}$ in the energy space. Revista Matematica Iberoamericana, 2016, 32, 1163-1188.	0.9	24
21	MODIFIED SCATTERING FOR THE CUBIC SCHRÖDINGER EQUATION ON PRODUCT SPACES AND APPLICATIONS. Forum of Mathematics, Pi, 2015, 3, .	2.0	51
22	QUASIINVARIANT GAUSSIAN MEASURES FOR ONE-DIMENSIONAL HAMILTONIAN PARTIAL DIFFERENTIAL EQUATIONS. Forum of Mathematics, Sigma, 2015, 3, .	0.7	22
23	Invariant Measures and Long Time Behaviour for the Benjamin-Ono Equation III. Communications in Mathematical Physics, 2015, 339, 815-857.	2.2	24
24	Multi-solitons and Related Solutions for the Water-waves System. SIAM Journal on Mathematical Analysis, 2015, 47, 897-954.	1.9	24
25	Strichartz Estimates for Non-Elliptic Schrödinger Equations on Compact Manifolds. Communications in Partial Differential Equations, 2015, 40, 1182-1195.	2.2	4
26	Invariant measures and long time behaviour for the Benjamin–Ono equation II. Journal Des Mathematiques Pures Et Appliquees, 2015, 103, 102-141.	1.6	23
27	Invariant Measures and Long-Time Behavior for the Benjamin–Ono Equation. International Mathematics Research Notices, 2014, 2014, 4679-4714.	1.0	31
28	Global regularity for the energy-critical NLS on (S^{3}). Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2014, 31, 315-338.	1.4	16
29	On the Propagation of Weakly Nonlinear Random Dispersive Waves. Archive for Rational Mechanics and Analysis, 2014, 212, 849-874.	2.4	7
30	The nonlinear Schrödinger equation ground states on product spaces. Analysis and PDE, 2014, 7, 73-96.	1.4	17
31	Probabilistic well-posedness for the cubic wave equation. Journal of the European Mathematical Society, 2013, 16, 1-30.	1.4	70
32	Gaussian measures associated to the higher order conservation laws of the Benjamin-Ono equation. Annales Scientifiques De L'Ecole Normale Superieure, 2013, 46, 249-299.	0.8	17
33	Long time dynamics for the one dimensional non linear Schrödinger equation. Annales De L'Institut Fourier, 2013, 63, 2137-2198.	0.6	45
34	Small Data Scattering for the Nonlinear Schrödinger Equation on Product Spaces. Communications in Partial Differential Equations, 2012, 37, 125-135.	2.2	32
35	Strichartz estimates for the periodic non-elliptic Schrödinger equation. Comptes Rendus Mathematique, 2012, 350, 955-958.	0.3	8
36	Oscillatory integral estimates and global well-posedness for the 2D Boussinesq equation. Bulletin of the Brazilian Mathematical Society, 2012, 43, 655-679.	0.8	3

#	Article	IF	Citations
37	Stability and Instability of the KDV Solitary Wave Under the KP-I Flow. Communications in Mathematical Physics, 2012, 313, 155-173.	2.2	22
38	Stability of the line soliton of the KP-II equation under periodic transverse perturbations. Mathematische Annalen, 2012, 352, 659-690.	1.4	26
39	Global well-posedness for the KP-II equation on the background of a non-localized solution. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2011, 28, 653-676.	1.4	32
40	Transverse instability of the line solitary water-waves. Inventiones Mathematicae, 2011, 184, 257-388.	2.5	39
41	Gibbs measure for the periodic derivative nonlinear Schrödinger equation. Nonlinearity, 2010, 23, 2771-2791.	1.4	54
42	A simple criterion of transverse linear instability for solitary waves. Mathematical Research Letters, 2010, 17, 157-169.	0.5	26
43	Sharp well-posedness results for the BBM equation. Discrete and Continuous Dynamical Systems, 2009, 23, 1241-1252.	0.9	88
44	Random data Cauchy theory for supercritical wave equations II: a global existence result. Inventiones Mathematicae, 2008, 173, 477-496.	2.5	124
45	Random data Cauchy theory for supercritical wave equations I: local theory. Inventiones Mathematicae, 2008, 173, 449-475.	2.5	179
46	Transverse nonlinear instability of solitary waves for some Hamiltonian PDE's. Journal Des Mathematiques Pures Et Appliquees, 2008, 90, 550-590.	1.6	38
47	On global Strichartz estimates for non-trapping metrics. Journal of Functional Analysis, 2008, 254, 1661-1682.	1.4	35
48	L^p properties for Gaussian random series. Transactions of the American Mathematical Society, 2008, 360, 4425-4439.	0.9	24
49	Invariant measures for the defocusing Nonlinear Schrödinger equation. Annales De L'Institut Fourier, 2008, 58, 2543-2604.	0.6	62
50	Strichartz estimates for long range perturbations. American Journal of Mathematics, 2007, 129, 1565-1609.	1.1	37
51	Invariant measures for the nonlinear Schrödinger equation on the disc. Dynamics of Partial Differential Equations, 2006, 3, 111-160.	0.9	33
52	The Cauchy Problem for the Nonlinear Schrödinger Equation on a Compact Manifold. Journal of Nonlinear Mathematical Physics, 2003, 10, 12.	1.3	19
53	An optimal regularity result on the quasi-invariant Gaussian measures for the cubic fourth order nonlinear Schrödinger equation. Journal De L'Ecole Polytechnique - Mathematiques, 0, 5, 793-841.	0.0	21