

Nikolay Tzvetkov

List of Publications by Year in descending order

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papers

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citations

304743

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Random data Cauchy theory for supercritical wave equations I: local theory. <i>Inventiones Mathematicae</i> , 2008, 173, 449-475.	2.5	179
2	Random data Cauchy theory for supercritical wave equations II: a global existence result. <i>Inventiones Mathematicae</i> , 2008, 173, 477-496.	2.5	124
3	Sharp well-posedness results for the BBM equation. <i>Discrete and Continuous Dynamical Systems</i> , 2009, 23, 1241-1252.	0.9	88
4	Probabilistic well-posedness for the cubic wave equation. <i>Journal of the European Mathematical Society</i> , 2013, 16, 1-30.	1.4	70
5	Invariant measures for the defocusing Nonlinear Schrödinger equation. <i>Annales De L'Institut Fourier</i> , 2008, 58, 2543-2604.	0.6	62
6	Gibbs measure for the periodic derivative nonlinear Schrödinger equation. <i>Nonlinearity</i> , 2010, 23, 2771-2791.	1.4	54
7	MODIFIED SCATTERING FOR THE CUBIC SCHRÖDINGER EQUATION ON PRODUCT SPACES AND APPLICATIONS. <i>Forum of Mathematics, Pi</i> , 2015, 3, .	2.0	51
8	Long time dynamics for the one dimensional non linear Schrödinger equation. <i>Annales De L'Institut Fourier</i> , 2013, 63, 2137-2198.	0.6	45
9	Transverse instability of the line solitary water-waves. <i>Inventiones Mathematicae</i> , 2011, 184, 257-388.	2.5	39
10	Transverse nonlinear instability of solitary waves for some Hamiltonian PDE's. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2008, 90, 550-590.	1.6	38
11	Strichartz estimates for long range perturbations. <i>American Journal of Mathematics</i> , 2007, 129, 1565-1609.	1.1	37
12	On global Strichartz estimates for non-trapping metrics. <i>Journal of Functional Analysis</i> , 2008, 254, 1661-1682.	1.4	35
13	Quasi-invariant Gaussian measures for the cubic fourth order nonlinear Schrödinger equation. <i>Probability Theory and Related Fields</i> , 2017, 169, 1121-1168.	1.8	34
14	Invariant measures for the nonlinear Schrödinger equation on the disc. <i>Dynamics of Partial Differential Equations</i> , 2006, 3, 111-160.	0.9	33
15	Global well-posedness for the KP-II equation on the background of a non-localized solution. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2011, 28, 653-676.	1.4	32
16	Small Data Scattering for the Nonlinear Schrödinger Equation on Product Spaces. <i>Communications in Partial Differential Equations</i> , 2012, 37, 125-135.	2.2	32
17	On the growth of Sobolev norms for NLS on 2- and 3-dimensional manifolds. <i>Analysis and PDE</i> , 2017, 10, 1123-1147.	1.4	32
18	Invariant Measures and Long-Time Behavior for the Benjamin-Ono Equation. <i>International Mathematics Research Notices</i> , 2014, 2014, 4679-4714.	1.0	31

#	ARTICLE	IF	CITATIONS
19	Stability of the line soliton of the KP-II equation under periodic transverse perturbations. <i>Mathematische Annalen</i> , 2012, 352, 659-690.	1.4	26
20	A simple criterion of transverse linear instability for solitary waves. <i>Mathematical Research Letters</i> , 2010, 17, 157-169.	0.5	26
21	L^p properties for Gaussian random series. <i>Transactions of the American Mathematical Society</i> , 2008, 360, 4425-4439.	0.9	24
22	Invariant Measures and Long Time Behaviour for the Benjamin-Ono Equation III. <i>Communications in Mathematical Physics</i> , 2015, 339, 815-857.	2.2	24
23	Multi-solitons and Related Solutions for the Water-waves System. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 897-954.	1.9	24
24	Well-posedness and scattering for nonlinear Schrödinger equations on \mathbb{R}^d times \mathbb{T} in the energy space. <i>Revista Matemática Iberoamericana</i> , 2016, 32, 1163-1188.	0.9	24
25	Invariant measures and long time behaviour for the Benjamin-Ono equation II. <i>Journal Des Mathématiques Pures Et Appliquées</i> , 2015, 103, 102-141.	1.6	23
26	Remarks on the Gibbs measures for nonlinear dispersive equations. <i>Annales De La Faculté Des Sciences De Toulouse</i> , 2018, 27, 527-597.	0.3	23
27	Stability and Instability of the KDV Solitary Wave Under the KP-I Flow. <i>Communications in Mathematical Physics</i> , 2012, 313, 155-173.	2.2	22
28	QUASIINVARIANT GAUSSIAN MEASURES FOR ONE-DIMENSIONAL HAMILTONIAN PARTIAL DIFFERENTIAL EQUATIONS. <i>Forum of Mathematics, Sigma</i> , 2015, 3, .	0.7	22
29	An optimal regularity result on the quasi-invariant Gaussian measures for the cubic fourth order nonlinear Schrödinger equation. <i>Journal De L'Ecole Polytechnique - Mathématiques</i> , 0, 5, 793-841.	0.0	21
30	The Cauchy Problem for the Nonlinear Schrödinger Equation on a Compact Manifold. <i>Journal of Nonlinear Mathematical Physics</i> , 2003, 10, 12.	1.3	19
31	The nonlinear Schrödinger equation ground states on product spaces. <i>Analysis and PDE</i> , 2014, 7, 73-96.	1.4	17
32	Gaussian measures associated to the higher order conservation laws of the Benjamin-Ono equation. <i>Annales Scientifiques De L'Ecole Normale Supérieure</i> , 2013, 46, 249-299.	0.8	17
33	Global regularity for the energy-critical NLS on (S^3) . <i>Annales De L'Institut Henri Poincaré (C) Analyse Non Linéaire</i> , 2014, 31, 315-338.	1.4	16
34	Quasi-invariant Gaussian measures for the cubic nonlinear Schrödinger equation with third-order dispersion. <i>Comptes Rendus Mathématique</i> , 2019, 357, 366-381.	0.3	13
35	Solving the 4NLS with white noise initial data. <i>Forum of Mathematics, Sigma</i> , 2020, 8, .	0.7	10
36	Quasi-invariant Gaussian measures for the two-dimensional defocusing cubic nonlinear wave equation. <i>Journal of the European Mathematical Society</i> , 2020, 22, 1785-1826.	1.4	9

#	ARTICLE	IF	CITATIONS
37	Strichartz estimates for the periodic non-elliptic Schrödinger equation. <i>Comptes Rendus Mathématique</i> , 2012, 350, 955-958.	0.3	8
38	Transport of Gaussian measures by the flow of the nonlinear Schrödinger equation. <i>Mathematische Annalen</i> , 2020, 378, 389-423.	1.4	8
39	Gibbs Measure Dynamics for the Fractional NLS. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 4638-4704.	1.9	8
40	On the Propagation of Weakly Nonlinear Random Dispersive Waves. <i>Archive for Rational Mechanics and Analysis</i> , 2014, 212, 849-874.	2.4	7
41	Random Data Wave Equations. <i>Lecture Notes in Mathematics</i> , 2019, , 221-313.	0.2	6
42	New examples of probabilistic well-posedness for nonlinear wave equations. <i>Journal of Functional Analysis</i> , 2020, 278, 108322.	1.4	5
43	Refined probabilistic global well-posedness for the weakly dispersive NLS. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2021, 213, 112530.	1.1	5
44	Strichartz Estimates for Non-Elliptic Schrödinger Equations on Compact Manifolds. <i>Communications in Partial Differential Equations</i> , 2015, 40, 1182-1195.	2.2	4
45	Quasi-invariant Gaussian measures for the nonlinear wave equation in three dimensions. <i>Probability and Mathematical Physics</i> , 2022, 3, 343-379.	1.5	4
46	Oscillatory integral estimates and global well-posedness for the 2D Boussinesq equation. <i>Bulletin of the Brazilian Mathematical Society</i> , 2012, 43, 655-679.	0.8	3
47	Concerning the pathological set in the context of probabilistic well-posedness. <i>Comptes Rendus Mathématique</i> , 2020, 358, 989-999.	0.3	3
48	Quasi-invariance of low regularity Gaussian measures under the gauge map of the periodic derivative NLS. <i>Journal of Functional Analysis</i> , 2022, 282, 109263.	1.4	2
49	Probabilistic local Cauchy theory of the cubic nonlinear wave equation in negative Sobolev spaces. <i>Annales De L'Institut Fourier</i> , 2022, 72, 771-830.	0.6	2
50	On the Nonlinear Wave Equation with Time-periodic Potential. <i>International Mathematics Research Notices</i> , 2021, 2021, 4301-4323.	1.0	1
51	Quasi-invariance of Gaussian measures for the periodic Benjamin-Ono-BBM equation. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2023, 11, 651-684.	0.9	1
52	Singular Random Dynamics. <i>Lecture Notes in Mathematics</i> , 2019, , .	0.2	0
53	Polynomial bounds on the Sobolev norms of the solutions of the nonlinear wave equation with time dependent potential. <i>Archiv Der Mathematik</i> , 2020, 114, 71-84.	0.5	0