ZdzisÅ‚aw BrzeÅºniak

List of Publications by Year
in descending order

93 papers	2,342 citations	172457 29 h-index	243625 44 g-index
97 all docs	97 docs citations	97 times ranked	513 citing authors

#	Article	IF	Citations
1	On stochastic convolution in banach spaces and applications. Stochastic and Stochastics Reports, 1997, 61, 245-295.	0.6	150
2	Stochastic partial differential equations in M-type 2 Banach spaces. Potential Analysis, 1995, 4, 1-45.	0.9	110
3	Asymptotic compactness and absorbing sets for 2D stochastic Navier-Stokes equations on some unbounded domains. Transactions of the American Mathematical Society, 2006, 358, 5587-5630.	0.9	100
4	Existence of global solutions and invariant measures for stochastic differential equations driven by Poisson type noise with non-Lipschitz coefficients. Journal of Mathematical Analysis and Applications, 2010, 371, 309-322.	1.0	97
5	Stochastic nonlinear beam equations. Probability Theory and Related Fields, 2005, 132, 119-149.	1.8	92
6	Existence of a martingale solution of the stochastic Navierâ€“Stokes equations in unbounded 2D and 3D domains. Journal of Differential Equations, 2013, 254, 1627-1685.	2.2	82
7	Strong solutions for SPDE with locally monotone coefficients driven by LÃ©vy noise. Nonlinear Analysis: Real World Applications, 2014, 17, 283-310.	1.7	73
8	Space-time continuous solutions to SPDE's driven by a homogeneous Wiener process. Studia Mathematica, 1999, 137, 261-299.	0.7	69
9	Stochastic two dimensional euler equations. Annals of Probability, 2001, 29, 1796.	1.8	62
10	Almost sure approximation of Wong-Zakai type for stochastic partial differential equations. Stochastic Processes and Their Applications, 1995, 55, 329-358.	0.9	59
11	2D stochastic Navierâ€“Stokes equations driven by jump noise. Nonlinear Analysis: Theory, Methods & Applications, 2013, 79, 122-139.	1.1	57
12	ItÃ´s formula in UMD Banach spaces and regularity of solutions of the Zakai equation. Journal of Differential Equations, 2008, 245, 30-58.	2.2	55
13	Stochastic convolution in separable Banach spaces and the stochastic linear Cauchy problem. Studia Mathematica, 2000, 143, 43-74.	0.7	52
14	Invariant measure for the stochastic Navierâ€“Stokes equations in unbounded 2D domains. Annals of Probability, 2017, 45, .	1.8	51
15	Invariant measures for stochastic nonlinear beam and wave equations. Journal of Differential Equations, 2016, 260, 4157-4179.	2.2	50
16	Pathwise global attractors for stationary random dynamical systems. Probability Theory and Related Fields, 1993, 95, 87-102.	1.8	49
17	Martingale solutions and invariant measures for stochastic evolution equations in Banach spaces. Stochastic Processes and Their Applications, 1999, 84, 187-225.	0.9	48
18	Maximal regularity for stochastic convolutions driven by LÃ©vy processes. Probability Theory and Related Fields, 2009, 145, 615-637.	1.8	44

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19	Regularity of Ornsteinâ€“Uhlenbeck Processes Driven by a LÃ©vy White Noise. Potential Analysis, 2010, 32, 153-188.	0.9	44
20	On the Stochastic Strichartz Estimates and the Stochastic Nonlinear SchrÃ¶dinger Equation on a Compact Riemannian Manifold. Potential Analysis, 2014, 41, 269-315.	0.9	44
21	Existence and Uniqueness for Stochastic 2D Euler Flows with Bounded Vorticity. Archive for Rational Mechanics and Analysis, 2016, 221, 107-142.	2.4	43
22	Random attractors for stochastic 2D-Navierâ€“Stokes equations in some unbounded domains. Journal of Differential Equations, 2013, 255, 3897-3919.	2.2	40
23	Continuity of Stochastic Convolutions. Czechoslovak Mathematical Journal, 2001, 51, 679-684.	0.3	39
24	Strong solutions to stochastic wave equations with values in Riemannian manifolds. Journal of Functional Analysis, 2007, 253, 449-481.	1.4	37
25	Large Deviations and Transitions Between Equilibria for Stochastic Landauâ€“Lifshitzâ€“Gilbert Equation. Archive for Rational Mechanics and Analysis, 2017, 226, 497-558.	2.4	36
26	Stochastic Reaction-diffusion Equations Driven by Jump Processes. Potential Analysis, 2018, 49, 131-201.	0.9	34
27	Weak Solutions to Stochastic Wave Equations with Values in Riemannian Manifolds. Communications in Partial Differential Equations, 2011, 36, 1624-1653.	2.2	33
28	Stochastic geometric wave equations with values in compact Riemannian homogeneous spaces. Annals of Probability, 2013, 41, .	1.8	31
29	Space-time regularity for linear stochastic evolution equations driven by spatially homogeneous noise. Kyoto Journal of Mathematics, 2003, 43, 261.	0.3	30
30	Stochastic evolution equations in Banach spaces and applications to the Heathâ€“Jarrowâ€“Mortonâ€“Musiela equations. Finance and Stochastics, 2018, 22, 959-1006.	1.1	29
31	Time irregularity of generalized Ornsteinâ€“Uhlenbeck processes. Comptes Rendus Mathematique, 2010, 348, 273-276.	0.3	23
32	Second order PDEs with Dirichlet white noise boundary conditions. Journal of Evolution Equations, 2015, 15, 1-26.	1.1	21
33	Maximal Inequalities and Exponential Estimates for Stochastic Convolutions Driven by LÃ©vy-type Processes in Banach Spaces with Application to Stochastic Quasi-Geostrophic Equations. SIAM Journal on Mathematical Analysis, 2019, 51, 2121-2167.	1.9	20
34	Computational Studies for the Stochastic Landau–Lifshitz–Gilbert Equation. SIAM Journal of Scientific Computing, 2013, 35, B62-B81.	2.8	19
35	Wongâ€“Zakai approximation for the stochastic Landauâ€“Lifshitzâ€“Gilbert equations. Journal of Differential Equations, 2019, 267, 776-825.	2.2	19
36	The Trace Formula for SchrÃ¶dinger Operators from Infinite Dimensional Oscillatory Integrals. Mathematische Nachrichten, 1996, 182, 21-65.	0.8	18

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37	Maximal inequalities for stochastic convolutions driven by compensated Poisson random measures in Banach spaces. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2017, 53, .	1.1	18
38	Stationary phase method in infinite dimensions by finite dimensional approximations: Applications to the SchrÃ¶dinger equation. Potential Analysis, 1995, 4, 469-502.	0.9	16
39	On periodic solutions to the von Foerster-Lasota equation. Semigroup Forum, 2009, 78, 118-137.	0.6	16
40	Stochastic evolution equations driven by Liouville fractional Brownian motion. Czechoslovak Mathematical Journal, 2012, 62, 1-27.	0.3	16
41	Multidimensional Stochastic Burgers Equation. SIAM Journal on Mathematical Analysis, 2014, 46, 871-889.	1.9	16
42	Quasipotential and exit time for 2D Stochastic Navier-Stokes equations driven by space time white noise. Probability Theory and Related Fields, 2015, 162, 739-793.	1.8	16
43	Stochastic Camassa-Holm equation with convection type noise. Journal of Differential Equations, 2021, 276, 404-432.	2.2	16
44	Large deviations principle for the invariant measures of the 2D stochastic Navierâ€“Stokes equations on a torus. Journal of Functional Analysis, 2017, 273, 1891-1930.	1.4	15
45	Martingale solutions for the stochastic nonlinear SchrÃ¶dinger equation in the energy space. Probability Theory and Related Fields, 2019, 174, 1273-1338.	1.8	15
46	Martingale solutions of nematic liquid crystals driven by pure jump noise in the Marcus canonical form. Journal of Differential Equations, 2019, 266, 6204-6283.	2.2	15
47	Stochastic Tamed Navierâ€“Stokes Equations on $${mathbb {R}}^3$$: The Existence and the Uniqueness of Solutions and the Existence of an Invariant Measure. Journal of Mathematical Fluid Mechanics, 2020, 22, 1.	1.0	15
48	Horizontal Lift of an Infinite Dimensional Diffusion. Potential Analysis, 2000, 12, 249-280.	0.9	14
49	SOME REMARKS ON ITÃ" AND STRATONOVICH INTEGRATION IN 2-SMOOTH BANACH SPACES. , 2003, , .		14
50	On Stochastic Burgers Equation Driven by a Fractional Laplacian and Space-Time White Noise. Interdisciplinary Mathematical Sciences, 2007, , 135-167.	0.4	14
51	Existence and convergence results for infinite dimensional nonlinear stochastic equations with multiplicative noise. Stochastic Processes and Their Applications, 2013, 123, 934-951.	0.9	14
52	Random Attractors for the Stochastic Navierâ€“Stokes Equations on the 2D Unit Sphere. Journal of Mathematical Fluid Mechanics, 2018, 20, 227-253.	1.0	14
53	Weak solutions of the Stochastic Landauâ€“Lifshitzâ€“Gilbert Equations with nonzero anisotrophy energy. Applied Mathematics Research EXpress, 2016, 2016, 334-375.	1.0	13
54	Weak Solutions of a Stochastic Landauâ€“Lifshitzâ€“Gilbert Equation Driven by Pure Jump Noise. Communications in Mathematical Physics, 2019, 371, 1071-1129.	2.2	13

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55	Well-posedness of the 3D stochastic primitive equations with multiplicative and transport noise. Journal of Differential Equations, 2021, 296, 617-676.	2.2	12
56	Existence of a unique solution and invariant measures for the stochastic Landauâ€“Lifshitzâ€“Bloch equation. Journal of Differential Equations, 2020, 269, 9471-9507.	2.2	11
57	Stochastic Landauâ€“Lifshitzâ€“Gilbert equation with anisotropy energy driven by pure jump noise. Computers and Mathematics With Applications, 2019, 77, 1503-1512.	2.7	10
58	Feynman path integrals as infinite-dimensional oscillatory integrals: Some new developments. Acta Applicandae Mathematicae, 1994, 35, 5-26.	1.0	9
59	Some results on the penalised nematic liquid crystals driven by multiplicative noise: weak solution and maximum principle. Stochastics and Partial Differential Equations: Analysis and Computations, 2019, 7, 417-475.	0.9	9
60	Stationary solutions for stochastic damped Navier-Stokes equations in mathBB{R}^d. Indiana University Mathematics Journal, 2019, 68, 105-138.	0.9	9
61	Invariant measures for stochastic evolution equations in M-type 2 Banach spaces. Journal of Evolution Equations, 2010, 10, 785-810.	1.1	8
62	Conceptual Analysis and Random Attractor for Dissipative Random Dynamical Systems. Acta Mathematica Scientia, 2008, 28, 253-268.	1.0	7
63	Fractionally Dissipative Stochastic Quasi-Geostrophic Type Equations on ${mathbb{R}}^{d}$. SIAM Journal on Mathematical Analysis, 2019, 51, 2306-2358.	1.9	7
64	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e57" altimg="si3.svg"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">L</mml:mi></mml:mrow><mml:mrow><mml:mi>p</mml:mi></mml:mrow></mml:msup></mml:math>-so for stochastic Navierâ€“Stokes equations with jump noise. Statistics and Probability Letters, 2019, 155, 108563.	0.7	6
65	The stochastic Strichartz estimates and stochastic nonlinear SchrÃ¶dinger equations driven by LÃ©vy noise. Journal of Functional Analysis, 2021, 281, 109021.	1.4	6
66	Nonlinear stochastic partial differential equations of hyperbolic type driven by LÃ©vy-type noises. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 3269-3299.	0.9	6
67	A note on stochastic Navierâ€“Stokes equations with not regular multiplicative noise. Stochastics and Partial Differential Equations: Analysis and Computations, 2017, 5, 53-80.	0.9	5
68	2D constrained Navierâ€“Stokes equations. Journal of Differential Equations, 2018, 264, 2833-2864.	2.2	5
69	Asymptotic behaviour of solutions to the 2D stochastic Navier-Stokes equations in unbounded domains â€”new developments. , 2004, , .		5
70	2D Navierâ€“Stokes equation in Besov spaces of negative order. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 3902-3916.	1.1	4
71	Stochastic Geometric Partial Differential Equations. Interdisciplinary Mathematical Sciences, 2011, , 1-32.	0.4	4
72	On the chaotic properties of the von Foerster-Lasota equation. Semigroup Forum, 2014, 88, 287-299.	0.6	4

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73	Stochastic constrained Navierâ€“Stokes equations on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">T</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math Journal of Differential Equations, 2021, 285, 128-174.	2.2	4
74	Hyperbolic Equations with Random Boundary Conditions. Interdisciplinary Mathematical Sciences, 2010, , 1-21.	0.4	4
75	Equivalence Of Banach Space-Valued Ornstein-Uhlenbeck Processes. Stochastic and Stochastics Reports, 2000, 69, 77-94.	0.6	3
76	Renormalization of Coulomb interactions for the 1D Dirac equation. Journal of Mathematical Physics, 2003, 44, 1638-1659.	1.1	3
77	Uniqueness in Law of the stochastic convolution process driven by LÃ©vy noise. Electronic Journal of Probability, 2013, 18, .	1.0	3
78	Ergodicity for a stochastic geodesic equation in the tangent bundle of the 2D sphere. Czechoslovak Mathematical Journal, 2015, 65, 617-657.	0.3	3
79	Stochastic Nonlinear Parabolic Equations with Stratonovich Gradient Noise. Applied Mathematics and Optimization, 2018, 78, 361-377.	1.6	3
80	Stochastic Navierâ€“Stokes Equations on a Thin Spherical Domain. Applied Mathematics and Optimization, 2021, 84, 1971-2035.	1.6	3
81	Large deviations for (1â€¯+â€¯1)-dimensional stochastic geometric wave equation. Journal of Differential Equations, 2022, 325, 1-69.	2.2	3
82	Stochastic differential equations on product loop manifolds. Bulletin Des Sciences Mathematiques, 2003, 127, 649-667.	1.0	2
83	Backward uniqueness and the existence of the spectral limit for linear parabolic SPDEs. Stochastic Processes and Their Applications, 2013, 123, 1851-1870.	0.9	2
84	Large Deviations for Stochastic Nematic Liquid Crystals Driven by Multiplicative Gaussian Noise. Potential Analysis, 2020, 53, 799-838.	0.9	2
85	Weak martingale solutions for the stochastic nonlinear SchrÃ¶dinger equation driven by pure jump noise. Stochastics and Partial Differential Equations: Analysis and Computations, 2020, 8, 1-53.	0.9	2
86	Global solution of nonlinear stochastic heat equation with solutions in a Hilbert manifold. Stochastics and Dynamics, 2020, 20, 2040012.	1.2	2
87	Uniqueness of martingale solutions for the stochastic nonlinear SchrÃ¶dinger equation on 3d compact manifolds. Stochastics and Partial Differential Equations: Analysis and Computations, 2022, 10, 828-857.	0.9	2
88	Stochastic and Deterministic Constrained Partial Differential Equations. Springer Proceedings in Mathematics and Statistics, 2018, , 133-146.	0.2	1
89	On the 2D Ericksenâ€“Leslie equations with anisotropic energy and external forces. Journal of Evolution Equations, 0, , 1.	1.1	1
90	Fellerian pants. Comptes Rendus Mathematique, 2006, 343, 333-338.	0.3	0

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91	Quasipotential for the ferromagnetic wire governed by the 1D Landau-Lifshitz-Gilbert equations. Journal of Differential Equations, 2019, 267, 2284-2330.	2.2	0
92	Irreducibility and strong Feller property for stochastic evolution equations in Banach spaces. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 1051-1077.	0.9	0
93	Ergodicity for stochastic equations of Navierâ€“Stokes type. Electronic Communications in Probability, 2022, 27, .	0.4	0