Franco Flandoli

List of Publications by Year
in descending order

93 papers	4,110 citations	257101 24 h-index	118652 62 g-index
95 all docs	95 docs citations	95 times ranked	779 citing authors

#	Article	IF	Citations
1	Attractors for random dynamical systems. Probability Theory and Related Fields, 1994, 100, 365-393.	0.9	758
2	Random attractors. Journal of Dynamics and Differential Equations, 1997, 9, 307-341.	1.0	610
3	Martingale and stationary solutions for stochastic Navier-Stokes equations. Probability Theory and Related Fields, 1995, 102, 367-391.	0.9	422
4	Random attractors for the 3d stochastic navier-stokes equation with multiplicative white noise. Stochastic and Stochastics Reports, 1996, 59, 21-45.	0.6	354
5	Ergodicity of the 2-D Navier-Stokes equation under random perturbations. Communications in Mathematical Physics, 1995, 172, 119-141.	1.0	218
6	Dissipativity and invariant measures for stochastic Navier-Stokes equations. Nonlinear Differential Equations and Applications, 1994, 1, 403-423.	0.4	144
7	Random Perturbation of PDEs and Fluid Dynamic Models. Lecture Notes in Mathematics, 2011, , .	0.1	106
8	Markov selections for the 3D stochastic Navier–Stokes equations. Probability Theory and Related Fields, 2007, 140, 407-458.	0.9	93
9	Solution Properties of a 3D Stochastic Euler Fluid Equation. Journal of Nonlinear Science, 2019, 29, 813-870.	1.0	74
10	An Introduction to 3D Stochastic Fluid Dynamics. Lecture Notes in Mathematics, 2008, , 51-150.	0.1	63
11	Almost sure approximation of Wong-Zakai type for stochastic partial differential equations. Stochastic Processes and Their Applications, 1995, 55, 329-358.	0.4	59
12	Hausdorff Dimension of Invariant Sets for Random Dynamical Systems. Journal of Dynamics and Differential Equations, 1998, 10, 449-474.	1.0	55
13	Pathwise global attractors for stationary random dynamical systems. Probability Theory and Related Fields, 1993, 95, 87-102.	0.9	49
14	Existence and Uniqueness for Stochastic 2D Euler Flows with Bounded Vorticity. Archive for Rational Mechanics and Analysis, 2016, 221, 107-142.	1.1	43
15	Partial regularity for the stochastic Navier-Stokes equations. Transactions of the American Mathematical Society, 2002, 354, 2207-2241.	0.5	42
16	Propagation of chaos for interacting particles subject to environmental noise. Annals of Applied Probability, 2016, 26, .	0.6	40
17	Noise Prevents Collapse of Vlasov–Poisson Point Charges. Communications on Pure and Applied Mathematics, 2014, 67, 1700-1736.	1.2	38
18	High mode transport noise improves vorticity blow-up control in 3D Navier–Stokes equations. Probability Theory and Related Fields, 2021, 180, 309-363.	0.9	37

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19	2-D Euler equation perturbed by noise. Nonlinear Differential Equations and Applications, 1999, 6, 35-54.	0.4	36
20	Stochastic ODEs and stochastic linear PDEs with critical drift: regularity, duality and uniqueness. Electronic Journal of Probability, 2019, 24, .	0.5	32
21	Irreducibility of the 3-D Stochastic Navier–Stokes Equation. Journal of Functional Analysis, 1997, 149, 160-177.	0.7	31
22	Brownian motion on volume preserving diffeomorphisms group and existence of global solutions of 2D stochastic Euler equation. Journal of Functional Analysis, 2007, 242, 304-326.	0.7	28
23	Delayed blow-up by transport noise. Communications in Partial Differential Equations, 2021, 46, 1757-1788.	1.0	28
24	Weak vorticity formulation of 2D Euler equations with white noise initial condition. Communications in Partial Differential Equations, 2018, 43, 1102-1149.	1.0	27
25	An infinite-dimensional approach to path-dependent Kolmogorov equations. Annals of Probability, 2016, 44, .	0.8	26
26	A PROBABILISTIC REPRESENTATION FOR THE VORTICITY OF A THREE-DIMENSIONAL VISCOUS FLUID AND FOR GENERAL SYSTEMS OF PARABOLIC EQUATIONS. Proceedings of the Edinburgh Mathematical Society, 2005, 48, 295-336.	0.2	25
27	Zero-noise solutions of linear transport equations without uniqueness: an example. Comptes Rendus Mathematique, 2009, 347, 753-756.	0.1	24
28	The Gibbs ensemble of a vortex filament. Probability Theory and Related Fields, 2002, 122, 317-340.	0.9	23
29	On a probabilistic description of small scale structures in 3D fluids. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2002, 38, 207-228.	0.7	23
30	Stochastic currents. Stochastic Processes and Their Applications, 2005, 115, 1583-1601.	0.4	23
31	Stochastic Three-Dimensional Rotating Navier–Stokes Equations: Averaging, Convergence and Regularity. Archive for Rational Mechanics and Analysis, 2012, 205, 195-237.	1.1	23
32	Stationary Conjugation of Flows for Parabolic SPDEs with Multiplicative Noise and Some Applications. Stochastic Analysis and Applications, 2004, 22, 1385-1420.	0.9	22
33	Scaling limit of stochastic 2D Euler equations with transport noises to the deterministic Navier–Stokes equations. Journal of Evolution Equations, 2021, 21, 567-600.	0.6	22
34	Convergence of transport noise to Ornstein–Uhlenbeck for 2D Euler equations under the enstrophy measure. Annals of Probability, 2020, 48, .	0.8	21
35	Remarks on uniqueness and strong solutions to deterministic and stochastic differential equations. Metrika, 2009, 69, 101-123.	0.5	20
36	Markov selections and their regularity for the three-dimensional stochastic Navier–Stokes equations. Comptes Rendus Mathematique, 2006, 343, 47-50.	0.1	19

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37	The Interaction Between Noise and Transport Mechanisms in PDEs. Milan Journal of Mathematics, 2011, 79, 543-560.	0.7	18
38	Noise Prevents Infinite Stretching of the Passive Field in a Stochastic Vector Advection Equation. Journal of Mathematical Fluid Mechanics, 2014, 16, 805-822.	0.4	18
39	Stochastic Navier-Stokes Equations and Related Models. Milan Journal of Mathematics, 2020, 88, 225-246.	0.7	18
40	Stochastic differential equations in fluid dynamics. Milan Journal of Mathematics, 1996, 66, 121-148.	0.1	16
41	The transition point in the zero noise limit for a 1D Peano example. Discrete and Continuous Dynamical Systems, 2014, 34, 4071-4083.	0.5	16
42	Regularity of stochastic kinetic equations. Electronic Journal of Probability, 2017, 22, .	0.5	15
43	2D Euler Equations with Stratonovich Transport Noise as a Large-Scale Stochastic Model Reduction. Journal of Nonlinear Science, 2021, 31, 1.	1.0	15
44	Anomalous dissipation in a stochastic inviscid dyadic model. Annals of Applied Probability, 2011, 21, .	0.6	14
45	A dyadic model on a tree. Journal of Mathematical Physics, 2013, 54, 021507.	0.5	14
46	$$\rho$$ Ï•-White noise solution to 2D stochastic Euler equations. Probability Theory and Related Fields, 2019, 175, 783-832.	0.9	14
47	REGULARIZING PROPERTIES OF BROWNIAN PATHS AND A RESULT OF DAVIE. Stochastics and Dynamics, 2011, 11, 323-331.	0.6	12
48	Uniform convergence of proliferating particles to the FKPP equation. Journal of Mathematical Analysis and Applications, 2019, 473, 27-52.	0.5	12
49	SPDE in Hydrodynamic: Recent Progress and Prospects. Lecture Notes in Mathematics, 2008, , .	0.1	12
50	Regularity of Transition Semigroups Associated to a 3D Stochastic Navier-Stokes Equation. Interdisciplinary Mathematical Sciences, 2007, , 263-280.	0.4	12
51	mSQG equations in distributional spaces and point vortex approximation. Journal of Evolution Equations, 2019, 19, 1071-1090.	0.6	11
52	On the regularity of stochastic currents, fractional Brownian motion and applications to a turbulence model. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2009, 45, .	0.7	11
53	Eddy heat exchange at the boundary under white noise turbulence. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210096.	1.6	11
54	From additive to transport noise in 2D fluid dynamics. Stochastics and Partial Differential Equations: Analysis and Computations, 2022, 10, 964-1004.	0.5	11

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55	Brownian and fractional Brownian stochastic currents via Malliavin calculus. Journal of Functional Analysis, 2010, 258, 279-306.	0.7	10
56	A theorem of uniqueness for an inviscid dyadic model. Comptes Rendus Mathematique, 2010, 348, 525-528.	0.1	10
57	Kolmogorov Equations Associated to the Stochastic Two Dimensional Euler Equations. SIAM Journal on Mathematical Analysis, 2019, 51, 1761-1791.	0.9	10
58	Heat diffusion in a channel under white noise modeling of turbulence. Mathematics in Engineering, 2021, 4, 1-21.	0.5	10
59	Euler-Lagrangian approach to 3D stochastic Euler equations. Journal of Geometric Mechanics, 2019, 11, 153-165.	0.5	10
60	Stochastic Attractors for Shell Phenomenological Models of Turbulence. Journal of Statistical Physics, 2010, 140, 688-717.	0.5	9
61	Properties of bounded stochastic processes employed in biophysics. Stochastic Analysis and Applications, 2020, 38, 277-306.	0.9	9
62	Statistics of a Vortex Filament Model. Electronic Journal of Probability, 2005, 10, .	0.5	9
63	Mean Field Limit of Interacting Filaments and Vector Valued Non-linear PDEs. Journal of Statistical Physics, 2017, 166, 1276-1309.	0.5	8
64	Probabilistic Models of Vortex Filaments. Czechoslovak Mathematical Journal, 2001, 51, 713-731.	0.3	7
65	Generalized calculus and sdes with non regular drift. Stochastic and Stochastics Reports, 2002, 72, 11-54.	0.6	7
66	MARKOV ATTRACTORS: A PROBABILISTIC APPROACH TO MULTIVALUED FLOWS. Stochastics and Dynamics, 2008, 08, 59-75.	0.6	7
67	Uniqueness for continuity equations in Hilbert spaces with weakly differentiable drift. Stochastics and Partial Differential Equations: Analysis and Computations, 2014, 2, 121-145.	0.5	7
68	Stochastic Modelling of Small-Scale Perturbation. Water (Switzerland), 2020, 12, 2950.	1.2	7
69	On stochastic distributions and currents. Mathematics and Mechanics of Complex Systems, 2016, 4, 373-406.	0.5	6
70	A particle system approach to aggregation phenomena. Journal of Applied Probability, 2019, 56, 282-306.	0.4	6
71	A numerical approach to Kolmogorov equation in high dimension based on Gaussian analysis. Journal of Mathematical Analysis and Applications, 2021, 493, 124505.	0.5	6
72	Random Currents and Probabilistic Models of Vortex Filaments. , 2004, , 129-139.		6

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73	Well-posedness of the vector advection equations by stochastic perturbation. Journal of Evolution Equations, 2018, 18, 277-301.	0.6	5
74	Energy conditional measures and 2D turbulence. Journal of Mathematical Physics, 2020, 61, 013101.	0.5	5
75	Uniform Approximation of 2 Dimensional Navier--Stokes Equation by Stochastic Interacting Particle Systems. SIAM Journal on Mathematical Analysis, 2020, 52, 5339-5362.	0.9	5
76	The KPP equation as a scaling limit of locally interacting Brownian particles. Journal of Differential Equations, 2021, 303, 608-644.	1.1	5
77	Remarks on determining projections for stochastic dissipative equations. Discrete and Continuous Dynamical Systems, 1999, 5, 197-214.	0.5	5
78	An Open Problem in the Theory of Regularization by Noise for Nonlinear PDEs. Springer Proceedings in Mathematics and Statistics, 2017, , 13-29.	0.1	4
79	Point vortex approximation for 2D Navier–Stokes equations driven by space-time white noise. Journal of Mathematical Analysis and Applications, 2021, 493, 124560.	0.5	4
80	A regularity theorem for quasilinear parabolic systems under random perturbations. Journal of Evolution Equations, 2013, 13, 829-874.	0.6	3
81	A Stochastic View over the Open Problem of Well-posedness for the 3D Navier–Stokes Equations. Progress in Probability, 2015, , 221-246.	0.3	3
82	Mean Field Limit of Interacting Filaments for 3D Euler Equations. Journal of Statistical Physics, 2019, 174, 562-578.	0.5	3
83	Stochastic model reduction: convergence and applications to climate equations. Journal of Evolution Equations, 2021, 21, 3813-3848.	0.6	3
84	Boundedness vs unboundedness of a noise linked to Tsallis q-statistics: The role of the overdamped approximation. Journal of Mathematical Physics, 2017, 58, 033301.	0.5	2
85	Mean field limit with proliferation. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 3029-3052.	0.5	2
86	2D-Stochastic Currents over the Wiener Sheet. Journal of Theoretical Probability, 2014, 27, 552-575.	0.4	1
87	Absolutely continuous solutions for continuity equations in Hilbert spaces. Journal Des Mathematiques Pures Et Appliquees, 2019, 128, 42-86.	0.8	1
88	The Navier–Stokes–Vlasov–Fokker–Planck System as a Scaling Limit of Particles in a Fluid. Journal of Mathematical Fluid Mechanics, 2021, 23, 1.	0.4	1
89	Renormalized Onsager functions and merging of vortex clusters. Stochastics and Dynamics, 2020, 20, 2040010.	0.6	1
90	Continuity equation in LlogL for the 2D Euler equations under the enstrophy measure. Stochastics and Partial Differential Equations: Analysis and Computations, 2021, 9, 491-509.	0.5	0

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91	On the Relation Between the Girsanov Transform and the Kolmogorov Equations for SPDEs. Potential Analysis, 0, , 1.	0.4	0
92	Nonautonomous attractors and Young measures. Stochastics and Dynamics, 0, , .	0.6	0
93	N-Player Games and Mean Field Games of Moderate Interactions. Applied Mathematics and Optimization, 0, , 1.	0.8	0