

Franco Flandoli

List of Publications by Year in descending order

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93
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257101

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95
all docs

95
docs citations

95
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	Eddy heat exchange at the boundary under white noise turbulence. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210096.	1.6	11
2	From additive to transport noise in 2D fluid dynamics. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2022, 10, 964-1004.	0.5	11
3	Scaling limit of stochastic 2D Euler equations with transport noises to the deterministic Navier–Stokes equations. <i>Journal of Evolution Equations</i> , 2021, 21, 567-600.	0.6	22
4	Continuity equation in LlogL for the 2D Euler equations under the enstrophy measure. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2021, 9, 491-509.	0.5	0
5	Point vortex approximation for 2D Navier–Stokes equations driven by space-time white noise. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 493, 124560.	0.5	4
6	A numerical approach to Kolmogorov equation in high dimension based on Gaussian analysis. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 493, 124505.	0.5	6
7	2D Euler Equations with Stratonovich Transport Noise as a Large-Scale Stochastic Model Reduction. <i>Journal of Nonlinear Science</i> , 2021, 31, 1.	1.0	15
8	The Navier–Stokes–Vlasov–Fokker–Planck System as a Scaling Limit of Particles in a Fluid. <i>Journal of Mathematical Fluid Mechanics</i> , 2021, 23, 1.	0.4	1
9	High mode transport noise improves vorticity blow-up control in 3D Navier–Stokes equations. <i>Probability Theory and Related Fields</i> , 2021, 180, 309-363.	0.9	37
10	Delayed blow-up by transport noise. <i>Communications in Partial Differential Equations</i> , 2021, 46, 1757-1788.	1.0	28
11	Stochastic model reduction: convergence and applications to climate equations. <i>Journal of Evolution Equations</i> , 2021, 21, 3813-3848.	0.6	3
12	The KPP equation as a scaling limit of locally interacting Brownian particles. <i>Journal of Differential Equations</i> , 2021, 303, 608-644.	1.1	5
13	Heat diffusion in a channel under white noise modeling of turbulence. <i>Mathematics in Engineering</i> , 2021, 4, 1-21.	0.5	10
14	Energy conditional measures and 2D turbulence. <i>Journal of Mathematical Physics</i> , 2020, 61, 013101.	0.5	5
15	Properties of bounded stochastic processes employed in biophysics. <i>Stochastic Analysis and Applications</i> , 2020, 38, 277-306.	0.9	9
16	Uniform Approximation of 2 Dimensional Navier–Stokes Equation by Stochastic Interacting Particle Systems. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 5339-5362.	0.9	5
17	Stochastic Modelling of Small-Scale Perturbation. <i>Water (Switzerland)</i> , 2020, 12, 2950.	1.2	7
18	Stochastic Navier-Stokes Equations and Related Models. <i>Milan Journal of Mathematics</i> , 2020, 88, 225-246.	0.7	18

#	ARTICLE	IF	CITATIONS
19	Convergence of transport noise to Ornstein-Uhlenbeck for 2D Euler equations under the enstrophy measure. <i>Annals of Probability</i> , 2020, 48, .	0.8	21
20	Renormalized Onsager functions and merging of vortex clusters. <i>Stochastics and Dynamics</i> , 2020, 20, 2040010.	0.6	1
21	A particle system approach to aggregation phenomena. <i>Journal of Applied Probability</i> , 2019, 56, 282-306.	0.4	6
22	Absolutely continuous solutions for continuity equations in Hilbert spaces. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2019, 128, 42-86.	0.8	1
23	Kolmogorov Equations Associated to the Stochastic Two Dimensional Euler Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 1761-1791.	0.9	10
24	Solution Properties of a 3D Stochastic Euler Fluid Equation. <i>Journal of Nonlinear Science</i> , 2019, 29, 813-870.	1.0	74
25	mSQG equations in distributional spaces and point vortex approximation. <i>Journal of Evolution Equations</i> , 2019, 19, 1071-1090.	0.6	11
26	White noise solution to 2D stochastic Euler equations. <i>Probability Theory and Related Fields</i> , 2019, 175, 783-832.	0.9	14
27	Mean Field Limit of Interacting Filaments for 3D Euler Equations. <i>Journal of Statistical Physics</i> , 2019, 174, 562-578.	0.5	3
28	Uniform convergence of proliferating particles to the FKPP equation. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 473, 27-52.	0.5	12
29	Stochastic ODEs and stochastic linear PDEs with critical drift: regularity, duality and uniqueness. <i>Electronic Journal of Probability</i> , 2019, 24, .	0.5	32
30	Euler-Lagrangian approach to 3D stochastic Euler equations. <i>Journal of Geometric Mechanics</i> , 2019, 11, 153-165.	0.5	10
31	Well-posedness of the vector advection equations by stochastic perturbation. <i>Journal of Evolution Equations</i> , 2018, 18, 277-301.	0.6	5
32	Weak vorticity formulation of 2D Euler equations with white noise initial condition. <i>Communications in Partial Differential Equations</i> , 2018, 43, 1102-1149.	1.0	27
33	Boundedness vs unboundedness of a noise linked to Tsallis q-statistics: The role of the overdamped approximation. <i>Journal of Mathematical Physics</i> , 2017, 58, 033301.	0.5	2
34	Regularity of stochastic kinetic equations. <i>Electronic Journal of Probability</i> , 2017, 22, .	0.5	15
35	An Open Problem in the Theory of Regularization by Noise for Nonlinear PDEs. <i>Springer Proceedings in Mathematics and Statistics</i> , 2017, , 13-29.	0.1	4
36	Mean Field Limit of Interacting Filaments and Vector Valued Non-linear PDEs. <i>Journal of Statistical Physics</i> , 2017, 166, 1276-1309.	0.5	8

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37	On stochastic distributions and currents. <i>Mathematics and Mechanics of Complex Systems</i> , 2016, 4, 373-406.	0.5	6
38	Propagation of chaos for interacting particles subject to environmental noise. <i>Annals of Applied Probability</i> , 2016, 26, .	0.6	40
39	An infinite-dimensional approach to path-dependent Kolmogorov equations. <i>Annals of Probability</i> , 2016, 44, .	0.8	26
40	Existence and Uniqueness for Stochastic 2D Euler Flows with Bounded Vorticity. <i>Archive for Rational Mechanics and Analysis</i> , 2016, 221, 107-142.	1.1	43
41	Mean field limit with proliferation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2016, 21, 3029-3052.	0.5	2
42	A Stochastic View over the Open Problem of Well-posedness for the 3D Navier-Stokes Equations. <i>Progress in Probability</i> , 2015, , 221-246.	0.3	3
43	Noise Prevents Collapse of Vlasov-Poisson Point Charges. <i>Communications on Pure and Applied Mathematics</i> , 2014, 67, 1700-1736.	1.2	38
44	Noise Prevents Infinite Stretching of the Passive Field in a Stochastic Vector Advection Equation. <i>Journal of Mathematical Fluid Mechanics</i> , 2014, 16, 805-822.	0.4	18
45	2D-Stochastic Currents over the Wiener Sheet. <i>Journal of Theoretical Probability</i> , 2014, 27, 552-575.	0.4	1
46	Uniqueness for continuity equations in Hilbert spaces with weakly differentiable drift. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2014, 2, 121-145.	0.5	7
47	The transition point in the zero noise limit for a 1D Peano example. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 4071-4083.	0.5	16
48	A regularity theorem for quasilinear parabolic systems under random perturbations. <i>Journal of Evolution Equations</i> , 2013, 13, 829-874.	0.6	3
49	A dyadic model on a tree. <i>Journal of Mathematical Physics</i> , 2013, 54, 021507.	0.5	14
50	Stochastic Three-Dimensional Rotating Navier-Stokes Equations: Averaging, Convergence and Regularity. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 205, 195-237.	1.1	23
51	Anomalous dissipation in a stochastic inviscid dyadic model. <i>Annals of Applied Probability</i> , 2011, 21, .	0.6	14
52	The Interaction Between Noise and Transport Mechanisms in PDEs. <i>Milan Journal of Mathematics</i> , 2011, 79, 543-560.	0.7	18
53	Random Perturbation of PDEs and Fluid Dynamic Models. <i>Lecture Notes in Mathematics</i> , 2011, , .	0.1	106
54	REGULARIZING PROPERTIES OF BROWNIAN PATHS AND A RESULT OF DAVIE. <i>Stochastics and Dynamics</i> , 2011, 11, 323-331.	0.6	12

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55	Stochastic Attractors for Shell Phenomenological Models of Turbulence. Journal of Statistical Physics, 2010, 140, 688-717.	0.5	9
56	Brownian and fractional Brownian stochastic currents via Malliavin calculus. Journal of Functional Analysis, 2010, 258, 279-306.	0.7	10
57	A theorem of uniqueness for an inviscid dyadic model. Comptes Rendus Mathematique, 2010, 348, 525-528.	0.1	10
58	Remarks on uniqueness and strong solutions to deterministic and stochastic differential equations. Metrika, 2009, 69, 101-123.	0.5	20
59	Zero-noise solutions of linear transport equations without uniqueness: an example. Comptes Rendus Mathematique, 2009, 347, 753-756.	0.1	24
60	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
61	MARKOV ATTRACTORS: A PROBABILISTIC APPROACH TO MULTIVALUED FLOWS. Stochastics and Dynamics, 2008, 08, 59-75.	0.6	7
62	SPDE in Hydrodynamic: Recent Progress and Prospects. Lecture Notes in Mathematics, 2008, , .	0.1	12
63	An Introduction to 3D Stochastic Fluid Dynamics. Lecture Notes in Mathematics, 2008, , 51-150.	0.1	63
64	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
65	Markov selections for the 3D stochastic Navier-Stokes equations. Probability Theory and Related Fields, 2007, 140, 407-458.	0.9	93
66	Regularity of Transition Semigroups Associated to a 3D Stochastic Navier-Stokes Equation. Interdisciplinary Mathematical Sciences, 2007, , 263-280.	0.4	12
67	Markov selections and their regularity for the three-dimensional stochastic Navier-Stokes equations. Comptes Rendus Mathematique, 2006, 343, 47-50.	0.1	19
68	Stochastic currents. Stochastic Processes and Their Applications, 2005, 115, 1583-1601.	0.4	23
69	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
70	Statistics of a Vortex Filament Model. Electronic Journal of Probability, 2005, 10, .	0.5	9
71	Stationary Conjugation of Flows for Parabolic SPDEs with Multiplicative Noise and Some Applications. Stochastic Analysis and Applications, 2004, 22, 1385-1420.	0.9	22
72	Random Currents and Probabilistic Models of Vortex Filaments. , 2004, , 129-139.		6

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73	Partial regularity for the stochastic Navier-Stokes equations. Transactions of the American Mathematical Society, 2002, 354, 2207-2241.	0.5	42
74	Generalized calculus and sdes with non regular drift. Stochastic and Stochastics Reports, 2002, 72, 11-54.	0.6	7
75	The Gibbs ensemble of a vortex filament. Probability Theory and Related Fields, 2002, 122, 317-340.	0.9	23
76	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
77	Probabilistic Models of Vortex Filaments. Czechoslovak Mathematical Journal, 2001, 51, 713-731.	0.3	7
78	2-D Euler equation perturbed by noise. Nonlinear Differential Equations and Applications, 1999, 6, 35-54.	0.4	36
79	Remarks on determining projections for stochastic dissipative equations. Discrete and Continuous Dynamical Systems, 1999, 5, 197-214.	0.5	5
80	Hausdorff Dimension of Invariant Sets for Random Dynamical Systems. Journal of Dynamics and Differential Equations, 1998, 10, 449-474.	1.0	55
81	Random attractors. Journal of Dynamics and Differential Equations, 1997, 9, 307-341.	1.0	610
82	Irreducibility of the 3-D Stochastic Navier-Stokes Equation. Journal of Functional Analysis, 1997, 149, 160-177.	0.7	31
83	Random attractors for the 3d stochastic navier-stokes equation with multiplicative white noise. Stochastic and Stochastics Reports, 1996, 59, 21-45.	0.6	354
84	Stochastic differential equations in fluid dynamics. Milan Journal of Mathematics, 1996, 66, 121-148.	0.1	16
85	Ergodicity of the 2-D Navier-Stokes equation under random perturbations. Communications in Mathematical Physics, 1995, 172, 119-141.	1.0	218
86	Martingale and stationary solutions for stochastic Navier-Stokes equations. Probability Theory and Related Fields, 1995, 102, 367-391.	0.9	422
87	Almost sure approximation of Wong-Zakai type for stochastic partial differential equations. Stochastic Processes and Their Applications, 1995, 55, 329-358.	0.4	59
88	Attractors for random dynamical systems. Probability Theory and Related Fields, 1994, 100, 365-393.	0.9	758
89	Dissipativity and invariant measures for stochastic Navier-Stokes equations. Nonlinear Differential Equations and Applications, 1994, 1, 403-423.	0.4	144
90	Pathwise global attractors for stationary random dynamical systems. Probability Theory and Related Fields, 1993, 95, 87-102.	0.9	49

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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