

Vladimir I Bogachev

List of Publications by Year in descending order

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102
papers

3,345
citations

331259

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109
all docs

109
docs citations

109
times ranked

1210
citing authors

#	ARTICLE	IF	CITATIONS
1	The Monge-Kantorovich problem: achievements, connections, and perspectives. Russian Mathematical Surveys, 2012, 67, 785-890.	0.2	98
2	Generalized Mehler semigroups and applications. Probability Theory and Related Fields, 1996, 105, 193-225.	0.9	70
3	Elliptic and parabolic equations for measures. Russian Mathematical Surveys, 2009, 64, 973-1078.	0.2	68
4	Elliptic equations for invariant measures on finite and infinite dimensional manifolds. Journal Des Mathematiques Pures Et Appliquees, 2001, 80, 177-221.	0.8	52
5	Elliptic equations for measures on infinite dimensional spaces and applications. Probability Theory and Related Fields, 2001, 120, 445-496.	0.9	46
6	On Parabolic Equations for Measures. Communications in Partial Differential Equations, 2008, 33, 397-418.	1.0	45
7	Uniqueness of solutions to weak parabolic equations for measures. Bulletin of the London Mathematical Society, 2007, 39, 631-640.	0.4	43
8	Absolutely Continuous Flows Generated by Sobolev Class Vector Fields in Finite and Infinite Dimensions. Journal of Functional Analysis, 1999, 167, 1-68.	0.7	36
9	Elliptic equations for measures: Regularity and global bounds of densities. Journal Des Mathematiques Pures Et Appliquees, 2006, 85, 743-757.	0.8	36
10	Existence of solutions to weak parabolic equations for measures. Proceedings of the London Mathematical Society, 2004, 88, 753-774.	0.6	35
11	Distances between transition probabilities of diffusions and applications to nonlinear Fokker-Planck-Kolmogorov equations. Journal of Functional Analysis, 2016, 271, 1262-1300.	0.7	35
12	Fractional smoothness of distributions of polynomials and a fractional analog of the Hardy-Landau-Littlewood inequality. Transactions of the American Mathematical Society, 2018, 370, 4401-4432.	0.5	31
13	Existence and uniqueness of solutions for Fokker-Planck equations on Hilbert spaces. Journal of Evolution Equations, 2010, 10, 487-509.	0.6	29
14	Fokker-Planck equations and maximal dissipativity for Kolmogorov operators with time dependent singular drifts in Hilbert spaces. Journal of Functional Analysis, 2009, 256, 1269-1298.	0.7	27
15	On uniqueness problems related to elliptic equations for measures. Journal of Mathematical Sciences, 2011, 176, 759-773.	0.1	27
16	On positive and probability solutions to the stationary Fokker-Planck-Kolmogorov equation. Doklady Mathematics, 2012, 85, 350-354.	0.1	25
17	Ornstein-Uhlenbeck operators and semigroups. Russian Mathematical Surveys, 2018, 73, 191-260.	0.2	23
18	Uniqueness for Solutions of Fokker-Planck Equations on Infinite Dimensional Spaces. Communications in Partial Differential Equations, 2011, 36, 925-939.	1.0	22

#	ARTICLE	IF	CITATIONS
19	Weak solutions to the stochastic porous media equation via Kolmogorov equations: The degenerate case. <i>Journal of Functional Analysis</i> , 2006, 237, 54-75.	0.7	21
20	Existence and Uniqueness of Invariant Measures: An Approach via Sectorial Forms. <i>Applied Mathematics and Optimization</i> , 2000, 41, 87-109.	0.8	20
21	Regularity of invariant measures for a class of perturbed Ornstein-Uhlenbeck operators. <i>Nonlinear Differential Equations and Applications</i> , 1996, 3, 261-268.	0.4	19
22	Sobolev functions on infinite-dimensional domains. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 419, 1023-1044.	0.5	19
23	Integrability and continuity of solutions to double divergence form equations. <i>Annali Di Matematica Pura Ed Applicata</i> , 2017, 196, 1609-1635.	0.5	19
24	ON THE MONGE-AMPERE EQUATION IN INFINITE DIMENSIONS. <i>Infinite Dimensional Analysis, Quantum Probability and Related Topics</i> , 2005, 08, 547-572.	0.3	18
25	On the Ambrosio-Figalli-Trevisan Superposition Principle for Probability Solutions to Fokker-Planck-Kolmogorov Equations. <i>Journal of Dynamics and Differential Equations</i> , 2021, 33, 715-739.	1.0	16
26	Convergence in variation of solutions of nonlinear Fokker-Planck-Kolmogorov equations to stationary measures. <i>Journal of Functional Analysis</i> , 2019, 276, 3681-3713.	0.7	14
27	Parabolic equations for measures on infinite-dimensional spaces. <i>Doklady Mathematics</i> , 2008, 78, 544-549.	0.1	13
28	Nonlinear evolution and transport equations for measures. <i>Doklady Mathematics</i> , 2009, 80, 785-789.	0.1	13
29	Kantorovich problems and conditional measures depending on a parameter. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 486, 123883.	0.5	13
30	Invariance Implies Gibbsian: Some New Results. <i>Communications in Mathematical Physics</i> , 2004, 248, 335-355.	1.0	12
31	Uniqueness Problems for Degenerate Fokker-Planck-Kolmogorov Equations. <i>Journal of Mathematical Sciences</i> , 2015, 207, 147-165.	0.1	12
32	The Kantorovich and variation distances between invariant measures of diffusions and nonlinear stationary Fokker-Planck-Kolmogorov equations. <i>Mathematical Notes</i> , 2014, 96, 855-863.	0.1	11
33	Estimates of the Kantorovich norm on manifolds. <i>Doklady Mathematics</i> , 2015, 92, 494-499.	0.1	11
34	The martingale problem for pseudo-differential operators on infinite-dimensional spaces. <i>Nagoya Mathematical Journal</i> , 1999, 153, 101-118.	0.6	10
35	On uniqueness of solutions to the Cauchy problem for degenerate Fokker-Planck-Kolmogorov equations. <i>Journal of Evolution Equations</i> , 2013, 13, 577-593.	0.6	10
36	Sobolev regularity for the Monge-Ampere equation in the Wiener space. <i>Kyoto Journal of Mathematics</i> , 2013, 53, .	0.2	10

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37	Lower bounds for the Kantorovich distance. Doklady Mathematics, 2015, 91, 91-93.	0.1	10
38	Surface Measures Generated by Differentiable Measures. Potential Analysis, 2016, 44, 767-792.	0.4	9
39	Elliptic equations for infinite dimensional probability distributions and Lyapunov functions. Comptes Rendus Mathematique, 1999, 329, 705-710.	0.5	8
40	Realization of Virasoro unitarizing measures on the set of Jordan curves. Comptes Rendus Mathematique, 2003, 336, 429-434.	0.1	8
41	A New Approach to Nikolskii's Besov Classes. Moscow Mathematical Journal, 2019, 19, 619-654.	0.2	8
42	On probability and integrable solutions to the stationary Kolmogorov equation. Doklady Mathematics, 2011, 83, 309-313.	0.1	7
43	Functions of bounded variation on infinite-dimensional spaces with measures. Doklady Mathematics, 2013, 87, 144-147.	0.1	7
44	On the uniqueness of solutions to continuity equations. Journal of Differential Equations, 2015, 259, 3854-3873.	1.1	7
45	On convergence in variation of weakly convergent multidimensional distributions. Doklady Mathematics, 2015, 91, 138-141.	0.1	7
46	Membership of distributions of polynomials in the Nikolskii's Besov class. Doklady Mathematics, 2016, 94, 453-457.	0.1	7
47	On inequalities relating the Sobolev and Kantorovich norms. Doklady Mathematics, 2016, 93, 256-258.	0.1	7
48	On Gaussian Nikolskii's Besov classes. Doklady Mathematics, 2017, 96, 498-502.	0.1	7
49	On Non-Uniqueness of Probability Solutions to the Two-Dimensional Stationary Fokker-Planck-Kolmogorov Equation. Doklady Mathematics, 2018, 98, 475-479.	0.1	6
50	Elliptic equations for invariant measures on Riemannian manifolds: existence and regularity of solutions. Comptes Rendus Mathematique, 2001, 332, 333-338.	0.5	5
51	Integrable solutions of the stationary Kolmogorov equation. Doklady Mathematics, 2012, 85, 309-314.	0.1	5
52	Classes of functions of bounded variation on infinite-dimensional domains. Doklady Mathematics, 2013, 88, 391-395.	0.1	5
53	Strong solutions to stochastic equations with Lévy noise and a discontinuous drift coefficient. Doklady Mathematics, 2015, 92, 471-475.	0.1	5
54	A characterization of Nikolskii's Besov classes via integration by parts. Doklady Mathematics, 2017, 96, 449-453.	0.1	5

#	ARTICLE	IF	CITATIONS
55	Log-Sobolev-type inequalities for solutions to stationary Fokker-Planck-Kolmogorov equations. Calculus of Variations and Partial Differential Equations, 2019, 58, 1.	0.9	5
56	Representations of solutions to Fokker-Planck-Kolmogorov equations with coefficients of low regularity. Journal of Evolution Equations, 2020, 20, 355-374.	0.6	5
57	On Sequential Properties of Spaces of Measures. Mathematical Notes, 2021, 110, 449-453.	0.1	5
58	The Kantorovich Problem with a Parameter and Density Constraints. Mathematical Notes, 2021, 110, 952-955.	0.1	5
59	Mass transport generated by a flow of Gauss maps. Journal of Functional Analysis, 2009, 256, 940-957.	0.7	4
60	Non uniform averagings in the ergodic theorem for stochastic flows. Doklady Mathematics, 2010, 81, 422-425.	0.1	4
61	On parabolic inequalities for generators of diffusions with jumps. Probability Theory and Related Fields, 2014, 158, 465-476.	0.9	4
62	Differentiability of invariant measures of diffusions with respect to a parameter. Doklady Mathematics, 2015, 91, 76-79.	0.1	4
63	Negligible Sets in Infinite-Dimensional Spaces. Analysis Mathematica, 2018, 44, 299-323.	0.2	4
64	On Sobolev regularity of solutions to Fokker-Planck-Kolmogorov equations with drifts in L^1 . Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2019, 30, 205-221.	0.3	4
65	Regularity of Solutions to Kolmogorov Equations with Perturbed Drifts. Potential Analysis, 2023, 58, 681-702.	0.4	4
66	Differentiability of solutions of stationary Fokker-Planck-Kolmogorov equations with respect to a parameter. Discrete and Continuous Dynamical Systems, 2016, 36, 3519-3543.	0.5	4
67	EXTENSIONS OF H-LIPSCHITZIAN MAPPINGS WITH INFINITE-DIMENSIONAL RANGE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 461-474.	0.3	3
68	On the convergence in variation for the images of measures under differentiable mappings. Comptes Rendus Mathematique, 1999, 328, 1055-1060.	0.5	3
69	On the Monge-Ampère equation on Wiener space. Doklady Mathematics, 2006, 73, 1-5.	0.1	3
70	Infinite dimensional Kolmogorov operators with time dependent drift coefficients. Doklady Mathematics, 2008, 77, 276-280.	0.1	3
71	A condition for the positivity of the density of an invariant measure. Doklady Mathematics, 2011, 83, 332-336.	0.1	3
72	On the distributions of smooth functions on infinite-dimensional spaces with measures. Doklady Mathematics, 2014, 89, 5-7.	0.1	3

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73	A continuous cost function for which the minima in the Monge and Kantorovich problems are not equal. Doklady Mathematics, 2015, 92, 452-455.	0.1	3
74	Sobolev-Kantorovich inequalities under $CD(0, \infty)$ condition. Communications in Contemporary Mathematics, 2022, 24, .	0.6	3
75	Approximation of nonlinear integral functionals. Doklady Mathematics, 2009, 80, 749-754.	0.1	2
76	Integrability and continuity of densities of stationary distributions of diffusions. Doklady Mathematics, 2016, 94, 355-360.	0.1	2
77	Strong solutions to stochastic equations with a Lévy noise and a non-constant diffusion coefficient. Doklady Mathematics, 2016, 94, 438-440.	0.1	2
78	Differential Properties of Semigroups and Estimates of Distances between Stationary Distributions of Diffusions. Doklady Mathematics, 2019, 99, 175-180.	0.1	2
79	On the Kantorovich Problem with a Parameter. Doklady Mathematics, 2019, 100, 349-353.	0.1	2
80	The Kolmogorov Problem on Uniqueness of Probability Solutions of a Parabolic Equation. Doklady Mathematics, 2020, 102, 464-467.	0.1	2
81	Stationary Fokker-Planck-Kolmogorov Equations. Springer Proceedings in Mathematics and Statistics, 2018, , 3-24.	0.1	2
82	Densities of distributions of homogeneous functions of Gaussian random vectors. Doklady Mathematics, 2020, 102, 460-463.	0.1	2
83	Generalized Mehler semigroups and applications. Probability Theory and Related Fields, 1996, 105, 193-225.	0.9	2
84	Sobolev regularity for the infinite-dimensional Monge-Ampère equation. Doklady Mathematics, 2012, 85, 331-335.	0.1	1
85	A stationary Fokker-Planck-Kolmogorov equation with a potential. Doklady Mathematics, 2014, 89, 24-29.	0.1	1
86	Weighted Zolotarev metrics and the Kantorovich metric. Doklady Mathematics, 2017, 95, 113-117.	0.1	1
87	Surface measures in infinite-dimensional spaces. , 2017, , 52-97.		1
88	Estimates for Solutions to Fokker-Planck-Kolmogorov Equations with Integrable Drifts. Doklady Mathematics, 2018, 98, 559-563.	0.1	1
89	On the Superposition Principle for Fokker-Planck-Kolmogorov Equations. Doklady Mathematics, 2019, 100, 363-366.	0.1	1
90	On Skorokhod Differentiable Measures. Ukrainian Mathematical Journal, 2021, 72, 1335-1357.	0.1	1

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91	Uniqueness of preimages of measures. Doklady Mathematics, 2006, 73, 344-348.	0.1	0
92	On topological spaces possessing uniformly distributed sequences. Doklady Mathematics, 2008, 77, 102-106.	0.1	0
93	Generalized functions obtained by the regularization of nonintegrable functions. Doklady Mathematics, 2008, 77, 302-305.	0.1	0
94	Oleg Georgievich Smolyanov (on his 70th birthday). Russian Mathematical Surveys, 2009, 64, 183-185.	0.2	0
95	Peculiarities of Adaptive Laser Location of Debris with Rough Surface. Advances in Science and Technology, 0, , .	0.2	0
96	Study of Modified Layer on Exterior Surface of Superheater Tubes. Materials Science Forum, 0, 706-709, 890-895.	0.3	0
97	Estimates of distances between transition probabilities of diffusions. Doklady Mathematics, 2016, 93, 135-139.	0.1	0
98	Integrability and continuity of solutions to Fokker-Planck-Kolmogorov equations. Doklady Mathematics, 2017, 96, 583-586.	0.1	0
99	Convergence to Stationary Measures in Nonlinear Fokker-Planck-Kolmogorov Equations. Doklady Mathematics, 2018, 98, 452-457.	0.1	0
100	On Sobolev Classes Containing Solutions to Fokker-Planck-Kolmogorov Equations. Doklady Mathematics, 2018, 98, 498-501.	0.1	0
101	Approximations of Nonlinear Integral Functionals of Entropy Type. Proceedings of the Steklov Institute of Mathematics, 2020, 310, 1-11.	0.1	0
102	On Nonuniqueness of Probability Solutions to the Cauchy Problem for the Fokker-Planck-Kolmogorov Equation. Doklady Mathematics, 2021, 103, 108-112.	0.1	0