Vladimir I Bogachev

List of Publications by Year
in descending order

102	3,345	331670 21	243625 44
papers	citations	h-index	g-index

109	109	109	1210
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Monge-Kantorovich problem: achievements, connections, and perspectives. Russian Mathematical Surveys, 2012, 67, 785-890.	0.6	98
2	Generalized Mehler semigroups and applications. Probability Theory and Related Fields, 1996, 105, 193-225.	1.8	70
3	Elliptic and parabolic equations for measures. Russian Mathematical Surveys, 2009, 64, 973-1078.	0.6	68
4	Elliptic equations for invariant measures on finite and infinite dimensional manifolds. Journal Des Mathematiques Pures Et Appliquees, 2001, 80, 177-221.	1.6	52
5	Elliptic equations for measures on infinite dimensional spaces and applications. Probability Theory and Related Fields, 2001, 120, 445-496.	1.8	46
6	On Parabolic Equations for Measures. Communications in Partial Differential Equations, 2008, 33, 397-418.	2.2	45
7	Uniqueness of solutions to weak parabolic equations for measures. Bulletin of the London Mathematical Society, 2007, 39, 631-640.	0.8	43
8	Absolutely Continuous Flows Generated by Sobolev Class Vector Fields in Finite and Infinite Dimensions. Journal of Functional Analysis, 1999, 167, 1-68.	1.4	36
9	Elliptic equations for measures: Regularity and global bounds of densities. Journal Des Mathematiques Pures Et Appliquees, 2006, 85, 743-757.	1.6	36
10	Existence of solutions to weak parabolic equations for measures. Proceedings of the London Mathematical Society, 2004, 88, 753-774.	1.3	35
11	Distances between transition probabilities of diffusions and applications to nonlinear Fokkerâ€“Planckâ€“Kolmogorov equations. Journal of Functional Analysis, 2016, 271, 1262-1300.	1.4	35
12	Fractional smoothness of distributions of polynomials and a fractional analog of the Hardyâ€“Landauâ€“Littlewood inequality. Transactions of the American Mathematical Society, 2018, 370, 4401-4432.	0.9	31
13	Existence and uniqueness of solutions for Fokkerâ€“Planck equations on Hilbert spaces. Journal of Evolution Equations, 2010, 10, 487-509.	1.1	29
14	Fokkerâ€“Planck equations and maximal dissipativity for Kolmogorov operators with time dependent singular drifts in Hilbert spaces. Journal of Functional Analysis, 2009, 256, 1269-1298.	1.4	27
15	On uniqueness problems related to elliptic equations for measures. Journal of Mathematical Sciences, 2011, 176, 759-773.	0.4	27
16	On positive and probability solutions to the stationary Fokker-Planck-Kolmogorov equation. Doklady Mathematics, 2012, 85, 350-354.	0.6	25
17	Ornsteinâ€“Uhlenbeck operators and semigroups. Russian Mathematical Surveys, 2018, 73, 191-260.	0.6	23
18	Uniqueness for Solutions of Fokkerâ€“Planck Equations on Infinite Dimensional Spaces. Communications in Partial Differential Equations, 2011, 36, 925-939.	2.2	22

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19	Weak solutions to the stochastic porous media equation via Kolmogorov equations: The degenerate case. Journal of Functional Analysis, 2006, 237, 54-75.	1.4	21
20	Existence and Uniqueness of Invariant Measures: An Approach via Sectorial Forms. Applied Mathematics and Optimization, 2000, 41, 87-109.	1.6	20
21	Regularity of invariant measures for a class of perturbed Ornstein-Uhlenbeck operators. Nonlinear Differential Equations and Applications, 1996, 3, 261-268.	0.8	19
22	Sobolev functions on infinite-dimensional domains. Journal of Mathematical Analysis and Applications, 2014, 419, 1023-1044.	1.0	19
23	Integrability and continuity of solutions to double divergence form equations. Annali Di Matematica Pura Ed Applicata, 2017, 196, 1609-1635.	1.0	19
24	ON THE MONGEâ€“AMPÃˆRE EQUATION IN INFINITE DIMENSIONS. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2005, 08, 547-572.	0.5	18
25	On the Ambrosioâ€“Figalliâ€“Trevisan Superposition Principle for Probability Solutions to Fokkerâ€“Planckâ€“Kolmogorov Equations. Journal of Dynamics and Differential Equations, 2021, 33, 715-739.	1.9	16
26	Convergence in variation of solutions of nonlinear Fokkerâ€“Planckâ€“Kolmogorov equations to stationary measures. Journal of Functional Analysis, 2019, 276, 3681-3713.	1.4	14
27	Parabolic equations for measures on infinite-dimensional spaces. Doklady Mathematics, 2008, 78, 544-549.	0.6	13
28	Nonlinear evolution and transport equations for measures. Doklady Mathematics, 2009, 80, 785-789.	0.6	13
29	Kantorovich problems and conditional measures depending on a parameter. Journal of Mathematical Analysis and Applications, 2020, 486, 123883.	1.0	13
30	Invariance Implies Gibbsian: Some New Results. Communications in Mathematical Physics, 2004, 248, 335-355.	2.2	12
31	Uniqueness Problems for Degenerate Fokkerâ€“Planckâ€“Kolmogorov Equations. Journal of Mathematical Sciences, 2015, 207, 147-165.	0.4	12
32	The Kantorovich and variation distances between invariant measures of diffusions and nonlinear stationary Fokker-Planck-Kolmogorov equations. Mathematical Notes, 2014, 96, 855-863.	0.4	11
33	Estimates of the Kantorovich norm on manifolds. Doklady Mathematics, 2015, 92, 494-499.	0.6	11
34	The martingale problem for pseudo-differential operators on infinite-dimensional spaces. Nagoya Mathematical Journal, 1999, 153, 101-118.	0.8	10
35	On uniqueness of solutions to the Cauchy problem for degenerate Fokkerâ€“Planckâ€“Kolmogorov equations. Journal of Evolution Equations, 2013, 13, 577-593.	1.1	10
36	Sobolev regularity for the Mongeâ€“AmpÃ¨re equation in the Wiener space. Kyoto Journal of Mathematics, 2013, 53, .	0.3	10

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37	Lower bounds for the Kantorovich distance. Doklady Mathematics, 2015, 91, 91-93.	0.6	10
38	Surface Measures Generated by Differentiable Measures. Potential Analysis, 2016, 44, 767-792.	0.9	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.	0.3	8
41	A New Approach to Nikolskiiâ€“Besov Classes. Moscow Mathematical Journal, 2019, 19, 619-654.	0.4	8
42	On probability and integrable solutions to the stationary Kolmogorov equation. Doklady Mathematics, 2011, 83, 309-313.	0.6	7
43	Functions of bounded variation on infinite-dimensional spaces with measures. Doklady Mathematics, 2013, 87, 144-147.	0.6	7
44	On the uniqueness of solutions to continuity equations. Journal of Differential Equations, 2015, 259, 3854-3873.	2.2	7
45	On convergence in variation of weakly convergent multidimensional distributions. Doklady Mathematics, 2015, 91, 138-141.	0.6	7
46	Membership of distributions of polynomials in the Nikolskiiâ€“Besov class. Doklady Mathematics, 2016, 94, 453-457.	0.6	7
47	On inequalities relating the Sobolev and Kantorovich norms. Doklady Mathematics, 2016, 93, 256-258.	0.6	7
48	On Gaussian Nikolskiiâ€“Besov classes. Doklady Mathematics, 2017, 96, 498-502.	0.6	7
49	On Non-Uniqueness of Probability Solutions to the Two-Dimensional Stationary Fokkerâ€“Planckâ€“Kolmogorov Equation. Doklady Mathematics, 2018, 98, 475-479.	0.6	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.	0.6	5
52	Classes of functions of bounded variation on infinite-dimensional domains. Doklady Mathematics, 2013, 88, 391-395.	0.6	5
53	Strong solutions to stochastic equations with LÃ©vy noise and a discontinuous drift coefficient. Doklady Mathematics, 2015, 92, 471-475.	0.6	5
54	A characterization of Nikolskiiâ€“Besov classes via integration by parts. Doklady Mathematics, 2017, 96, 449-453.	0.6	5

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55	Log-Sobolev-type inequalities for solutions to stationary Fokkerâ€“Planckâ€“Kolmogorov equations. Calculus of Variations and Partial Differential Equations, 2019, 58, 1.	1.7	5
56	Representations of solutions to Fokkerâ€“Planckâ€“Kolmogorov equations with coefficients of low regularity. Journal of Evolution Equations, 2020, 20, 355-374.	1.1	5
57	On Sequential Properties of Spaces of Measures. Mathematical Notes, 2021, 110, 449-453.	0.4	5
58	The Kantorovich Problem with a Parameter and Density Constraints. Mathematical Notes, 2021, 110, 952-955.	0.4	5
59	Mass transport generated by a flow of Gauss maps. Journal of Functional Analysis, 2009, 256, 940-957.	1.4	4
60	Non uniform averagings in the ergodic theorem for stochastic flows. Doklady Mathematics, 2010, 81, 422-425.	0.6	4
61	On parabolic inequalities for generators of diffusions with jumps. Probability Theory and Related Fields, 2014, 158, 465-476.	1.8	4
62	Differentiability of invariant measures of diffusions with respect to a parameter. Doklady Mathematics, 2015, 91, 76-79.	0.6	4
63	Negligible Sets in Infinite-Dimensional Spaces. Analysis Mathematica, 2018, 44, 299-323.	0.5	4
64	On Sobolev regularity of solutions to Fokkerâ€“Planckâ€“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.	0.6	4
65	Regularity of Solutions to Kolmogorov Equations with Perturbed Drifts. Potential Analysis, 2023, 58, 681-702.	0.9	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.	0.9	4
67	EXTENSIONS OF H-LIPSCHITZIAN MAPPINGS WITH INFINITE-DIMENSIONAL RANGE. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 1999, 02, 461-474.	0.5	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-AmpÃ©re equation on Wiener space. Doklady Mathematics, 2006, 73, 1-5.	0.6	3
70	Infinite dimensional Kolmogorov operators with time dependent drift coefficients. Doklady Mathematics, 2008, 77, 276-280.	0.6	3
71	A condition for the positivity of the density of an invariant measure. Doklady Mathematics, 2011, 83, 332-336.	0.6	3
72	On the distributions of smooth functions on infinite-dimensional spaces with measures. Doklady Mathematics, 2014, 89, 5-7.	0.6	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.	0.6	3
74	Sobolevâ€“Kantorovich inequalities under CD(0,âˆž) condition. Communications in Contemporary Mathematics, 2022, 24, .	1.2	3
75	Approximation of nonlinear integral functionals. Doklady Mathematics, 2009, 80, 749-754.	0.6	2
76	Integrability and continuity of densities of stationary distributions of diffusions. Doklady Mathematics, 2016, 94, 355-360.	0.6	2
77	Strong solutions to stochastic equations with a LÃ©vy noise and a non-constant diffusion coefficient. Doklady Mathematics, 2016, 94, 438-440.	0.6	2
78	Differential Properties of Semigroups and Estimates of Distances between Stationary Distributions of Diffusions. Doklady Mathematics, 2019, 99, 175-180.	0.6	2
79	On the Kantorovich Problem with a Parameter. Doklady Mathematics, 2019, 100, 349-353.	0.6	2
80	The Kolmogorov Problem on Uniqueness of Probability Solutions of a Parabolic Equation. Doklady Mathematics, 2020, 102, 464-467.	0.6	2
81	Stationary Fokkerâ€“Planckâ€“Kolmogorov Equations. Springer Proceedings in Mathematics and Statistics, 2018, , 3-24.	0.2	2
82	Densities of distributions of homogeneous functions of Gaussian random vectors. Doklady Mathematics, 2020, 102, 460-463.	0.6	2
83	Generalized Mehler semigroups and applications. Probability Theory and Related Fields, 1996, 105, 193-225.	1.8	2
84	Sobolev regularity for the infinite-dimensional Monge-AmpÃ¨re equation. Doklady Mathematics, 2012, 85, 331-335.	0.6	1
85	A stationary Fokker-Planck-Kolmogorov equation with a potential. Doklady Mathematics, 2014, 89, 24-29.	0.6	1
86	Weighted Zolotarev metrics and the Kantorovich metric. Doklady Mathematics, 2017, 95, 113-117.	0.6	1
87	Surface measures in infinite-dimensional spaces. , 2017, , 52-97.		1
88	Estimates for Solutions to Fokkerâ€“Planckâ€“Kolmogorov Equations with Integrable Drifts. Doklady Mathematics, 2018, 98, 559-563.	0.6	1
89	On the Superposition Principle for Fokkerâ€“Planckâ€“Kolmogorov Equations. Doklady Mathematics, 2019, 100, 363-366.	0.6	1
90	On Skorokhod Differentiable Measures. Ukrainian Mathematical Journal, 2021, 72, 1335-1357.	0.5	1

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91	Uniqueness of preimages of measures. Doklady Mathematics, 2006, 73, 344-348.	0.6	0
92	On topological spaces possessing uniformly distributed sequences. Doklady Mathematics, 2008, 77, 102-106.	0.6	0
93	Generalized functions obtained by the regularization of nonintegrable functions. Doklady Mathematics, 2008, 77, 302-305.	0.6	0
94	Oleg Georgievich Smolyanov (on his 70th birthday). Russian Mathematical Surveys, 2009, 64, 183-185.	0.6	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.	0.6	0
98	Integrability and continuity of solutions to Fokkerâ€“Planckâ€“Kolmogorov equations. Doklady Mathematics, 2017, 96, 583-586.	0.6	0
99	Convergence to Stationary Measures in Nonlinear Fokkerâ€“Planckâ€“Kolmogorov Equations. Doklady Mathematics, 2018, 98, 452-457.	0.6	0
100	On Sobolev Classes Containing Solutions to Fokkerâ€“Planckâ€“Kolmogorov Equations. Doklady Mathematics, 2018, 98, 498-501.	0.6	0
101	Approximations of Nonlinear Integral Functionals of Entropy Type. Proceedings of the Steklov Institute of Mathematics, 2020, 310, 1-11.	0.3	0
102	On Nonuniqueness of Probability Solutions to the Cauchy Problem for the Fokkerâ€“Planckâ€“Kolmogorov Equation. Doklady Mathematics, 2021, 103, 108-112.	0.6	0