

List of Publications

Michael Röckner

April 9, 2024

1. *Markov property of generalized fields and axiomatic potential theory*, Math. Ann. **264** (1983), 157–177.
2. *Self-adjoint harmonic spaces and Dirichlet forms*, Hiroshima Math. J. **14** (1984), 55–66.
3. *Dirichlet forms: closability and change of speed measure* (with Norbert Wielens), Infinite dimensional analysis and stochastic processes (S. Albeverio, ed.), Research Notes in Mathematics, vol. 124, Pitman, Boston, London, Melbourne, 1985, pp. 119–144.
4. *Capacity, Green's functions and Schrödinger operators* (with Sergio Albeverio, Withold Karwowski, and Ludwig Streit), Infinite dimensional analysis and stochastic processes (Sergio Albeverio, ed.), Research Notes in Mathematics, vol. 124, Pitman, Boston, London, Melbourne, 1985, pp. 197–215.
5. *Generalized Markov fields and Dirichlet forms*, Acta Appl. Math. **3** (1985), 285–311.
6. *A Dirichlet problem for distributions and specifications for random fields*, Memoirs of the Am. Math. Soc. **54** (1985), 324.
7. *Specifications and Martin boundaries for $P(\varphi)_2$ -random fields*, Commun. Math. Phys. **106** (1986), 105–135.
8. *On the transition function of the infinite dimensional Ornstein–Uhlenbeck process given by the free quantum field*, Potential Theory (J. Kral et al., eds.), Plenum Press, New York, London, 1988, pp. 277–293.
9. **Traces of harmonic functions and a new path space for the free quantum field*, J. Funct. Anal. **79** (1988), 211–249.
10. *On Dirichlet forms on topological vector spaces: existence and maximality* (with Sergio Albeverio), Proc. Bad Honnef Conference June 1988 (N. Christopeit et al., eds.), Lect. Notes Inform. Control, vol. 126, Springer, Berlin, 1989, pp. 14–31.

***This paper was awarded the Heinz–Mayer–Leibnitz Preis 1989 in mathematics through the German Bundesminister of Education and Sciences.**

11. *Dirichlet forms, quantum fields and stochastic quantization* (with Sergio Albeverio), Stochastic analysis, path integration and dynamics (K. D. Elworthy and J. C. Zambrini, eds.), Research Notes in Mathematics, vol. 200, Longman, Harlow, 1989, pp. 1–21.
12. *Dirichlet forms and generalized Schrödinger operators* (with Sergio Albeverio and Johannes F. Brasche), Schrödinger Operators (H. Holden and A. Jensen, eds.), Lecture Notes in Physics, vol. 345, Springer, Berlin, 1989, pp. 1–42.
13. *Classical Dirichlet forms on topological vector spaces: construction of an associated diffusion process* (with Sergio Albeverio), Prob. Th. Rel. Fields **83** (1989), 405–434.
14. *Infinite dimensional diffusions connected with positive generalized white noise functionals* (with Sergio Albeverio), White noise analysis (Takeyuki Hida et al., eds.), World Scientific, Singapore, 1990, pp. 1–21.
15. *New developments in theory and applications of Dirichlet forms* (with Sergio Albeverio), Ascona/Locarno, Switzerland, 4–9 July 1988 (Sergio Albeverio et al., eds.), Stochastic processes, physics and geometry, World Scientific, Singapore, 1990, pp. 27–76.
16. *The Dirichlet problem for quasi-linear partial differential operators with boundary data given by a distribution* (with Boguslav Zegarlinski), Stochastic Processes and their Applications (Sergio Albeverio et al., eds.), Kluwer, 1990, pp. 301–326.
17. *Dirichlet forms and Markov fields: a report on recent developments* (with Sergio Albeverio and Zhi-Ming Ma), Diffusion processes and related problems in Analysis, vol. 1, Birkhäuser, Boston, 1990, pp. 325–347.
18. *Dirichlet forms on topological vector spaces: closability and a Cameron–Martin formula* (with Sergio Albeverio), J. Funct. Anal. **88** (1990), 395–436.
19. *On the contraction property of energy forms on infinite dimensional space* (with Jürgen Potthoff), J. Funct. Anal. **92** (1990), 155–165.
20. *On partial integration in infinite dimensional space and applications to Dirichlet forms* (with Sergio Albeverio and Shigeo Kusuoka), J. London Math. Soc. **42** (1990), 122–136.
21. *Dirichlet forms in terms of white noise analysis I: Construction and QFT examples* (with Sergio Albeverio, Takeyuki Hida, Jürgen Potthoff, and Ludwig Streit), Rev. Math. Phys. **1** (1990), 291–312.
22. *Dirichlet forms in terms of white noise analysis II: Closability and diffusion processes* (with Sergio Albeverio, Takeyuki Hida, Jürgen Potthoff, and Ludwig Streit), Rev. Math. Phys. **1** (1990), 313–323.
23. *Potential theory on non-locally compact space via Dirichlet forms*, Potential Theory (M. Kishi, ed.), W. de Gruyter & Co., Berlin, New York, 1991, Invited Lecture, pp. 107–126.
24. *Decomposition of Dirichlet processes on Hilbert space* (with Tu-Sheng Zhang), Stochastic Analysis (M. T. Barlow and N.H. Bingham, eds.), Cambridge University Press, Cambridge, 1991, pp. 321–332.

25. *Capacities on Wiener space: tightness and invariance* (with Sergio Albeverio, Masatoshi Fukushima, Wolfhard Hansen, and Zhi-Ming Ma), C. R. Acad. Sci. Paris, *Sérié I* **312** (1991), 931–935.
26. *Stochastic differential equations in infinite dimensions: solutions via Dirichlet forms* (with Sergio Albeverio), Prob. Th. Rel. Fields **89** (1991), 347–386.
27. *Introduction to the theory of (non-symmetric) Dirichlet forms* (with Zhi-Ming Ma), Universitext, Springer, Berlin, 1992, pp. viii+209.
28. *Dirichlet forms on infinite dimensional state space and applications*, Stochastic Analysis and Related Topics (H. Körezlioglu and A. S. Ustumel, eds.), Birkhäuser, Boston, 1992, pp. 131–186.
29. *A Beurling–Deny type structure theorem for Dirichlet forms on general state spaces* (with Sergio Albeverio and Zhi-Ming Ma), Ideas and methods in mathematical analysis, stochastics, and applications (Sergio Albeverio et al., eds.), vol. 1, Cambridge University Press, Cambridge, 1992, In Memory of Raphael Høegh–Krohn (1938–1988), pp. 115–123.
30. *On the parabolic Martin boundary of the Ornstein–Uhlenbeck operator on Wiener space*, Ann. Prob. **20** (1992), 1063–1085.
31. *A note on tightness of capacities associated with Dirichlet forms* (with Terry Lyons), Bull. London Math. Soc. **24** (1992), 181–184.
32. *Non-symmetric Dirichlet forms and Markov processes on general state space* (with Sergio Albeverio and Zhi-Ming Ma), C. R. Acad. Sci. Paris, *Sérié I* **314** (1992), 77–82.
33. *Regularization of Dirichlet spaces and applications* (with Sergio Albeverio and Zhi-Ming Ma), C. R. Acad. Sci. Paris, *Sérié I* **314** (1992), 859–864.
34. *Capacités gaussiennes sont portées par des compacts métrisables* (with Vladimir I. Bogachev), C. R. Acad. Sci. Paris, *Sérié I* **315** (1992), 197–202.
35. *Construction of diffusions on path and loop spaces of compact Riemannian manifolds* (with Bruce K. Driver), C. R. Acad. Sci. Paris, *Sérié I* **315** (1992), 603–608.
36. *Uniqueness of generalized Schrödinger operators and applications* (with Tu-Sheng Zhang), J. Funct. Anal. **105** (1992), 187–231.
37. *An invariance result for capacities on Wiener space* (with Sergio Albeverio, Masatoshi Fukushima, Wolfhard Hansen, and Zhi-Ming Ma), J. Funct. Anal. **106** (1992), 35–49.
38. *Tightness of general $C_{1,p}$ -capacities on Banach space* (with Byron Schmuland), J. Funct. Anal. **108** (1992), 1–12.
39. *An approximate criterium of essential self-adjointness of Dirichlet operators* (with Sergio Albeverio and Yuri G. Kondratiev), Pot. Anal. **1** (1992), 307–317.
40. *A remark on the support of cadlag processes* (with Sergio Albeverio and Zhi-Ming Ma), Stochastic Processes. A Festschrift in Honour of G. Kallianpur (S. Cambanis et al., eds.), Springer, Berlin, 1993, pp. 1–5.

41. *General theory of Dirichlet forms and applications*, Dirichlet Forms, Varenna 1992 (G. Dell'Antonio and U. Mosco, eds.), Springer, Berlin, 1993, pp. 129–193.
42. *Markov uniqueness for a class of infinite dimensional Dirichlet operators* (with Sergio Albeverio and Tu-Sheng Zhang), Stochastic Processes and Optimal Control (H. J. Engelbert et al., eds.), Stochastic Monographs, vol. 7, Gordon & Breach, 1993, pp. 1–26.
43. *Girsanov transform for symmetric diffusions with infinite dimensional state space* (with Sergio Albeverio and Tu-Sheng Zhang), Ann. Prob. **21** (1993), 961–978.
44. *Construction of a rotational invariant diffusion on the free loop space* (with Sergio Albeverio and Remi Léandre), C. R. Acad. Sci. Paris, Série I **316** (1993), 287–292.
45. *Markov uniqueness and its applications to martingale problems, stochastic differential equations and stochastic quantization* (with Sergio Albeverio and Tu-Sheng Zhang), C. R. Math. Rep. Acad. Sci. Canada **XV** (1993), 1–6.
46. *Quasi-regular Dirichlet forms and Markov processes* (with Sergio Albeverio and Zhi-Ming Ma), J. Funct. Anal. **111** (1993), 118–154.
47. *Local property of Dirichlet forms and diffusions on general state spaces* (with Sergio Albeverio and Zhi-Ming Ma), Math. Ann. **296** (1993), 677–686.
48. *Addendum to [39]* (with Sergio Albeverio and Yuri G. Kondratiev), Pot. Anal. **2** (1993), 195–198.
49. *Dirichlet operators and Gibbs measures* (with Sergio Albeverio and Yuri G. Kondratiev), On Klauder's path: a field trip. Essays in honour of J. R. Klauder (G. G. Emch et al., eds.), World Scientific, Singapore, 1994, pp. 1–10.
50. *Infinite dimensional diffusions, Markov fields, quantum fields, and stochastic quantization* (with Sergio Albeverio and Yuri G. Kondratiev), Stochastic analysis and applications (A. I. Cardoso et al., eds.), Kluwer, Dordrecht, 1994, pp. 1–34.
51. *Hypoellipticity and invariant measures of infinite dimensional diffusions* (with Vladimir I. Bogachev), C. R. Acad. Sci. Paris, Série I **318** (1994), 553–558.
52. *Uniqueness of generalized Schrödinger operators: Part II* (with Tu-Sheng Zhang), J. Funct. Anal. **119** (1994), 455–467.
53. *Quasi-homeomorphisms of Dirichlet forms* (with Z. Q. Chen and Zhi-Ming Ma), Nagoya Math. J. **136** (1994), 1–15.
54. *A remark on stochastic dynamics on the infinite dimensional torus* (with Sergio Albeverio and Yuri G. Kondratiev), Ascona Conference (Boston) (E. Bolthausen et al., eds.), Birkhäuser, 1995, pp. 1–12.
55. *Potential theory of quasi-regular Dirichlet forms without capacity* (with Sergio Albeverio and Zhi-Ming Ma), Dirichlet Forms and Stochastic Processes (Zhi-Ming Ma et al., eds.), de Gruyter, Berlin, 1995, pp. 47–53.

56. *A remark on quasi-Radon measures* (with Sergio Albeverio and Zhi-Ming Ma), International Conference, Locarno, Switzerland, 24–29 June, 1991 (S. Albeverio et al., eds.), Stochastic Processes: Physics and Geometry II, World Scientific, Singapore, 1995, pp. 75–85.
57. *Dirichlet form methods for uniqueness of martingale problems and applications* (with Sergio Albeverio), Stochastic Analysis. Proceedings of Symposia in Pure Mathematics (Providence, Rhode Island) (M. C. Cranston and M. A. Pinsky, eds.), vol. 57, Am. Math. Soc., 1995, pp. 513–528.
58. *A remark on coercive forms and associated semigroups* (with Sergio Albeverio, Ru-Zhong Fan, and Wilhelm Stannat), Partial differential operators and mathematical physics, Operator Theory Advances and Applications, vol. 78, Birkhäuser, Basel, 1995, pp. 1–8.
59. *An analytic approach to Fleming–Viot processes with interactive selection* (with Ludger Overbeck and Byron Schmuland), Ann. Prob. **23** (1995), 1–36.
60. *Quasi-regular Dirichlet forms: examples and counterexamples* (with Byron Schmuland), Can. J. Math. **47** (1995), 165–200.
61. *Markov processes associated with positivity preserving forms* (with Zhi-Ming Ma), Can. J. Math. **47** (1995), 817–840.
62. *Dirichlet operators via stochastic analysis* (with Sergio Albeverio and Yuri G. Kondratiev), J. Funct. Anal. **128** (1995), 102–138.
63. *Uniqueness of the stochastic dynamics for continuous spin systems on a lattice* (with Sergio Albeverio and Yuri G. Kondratiev), J. Funct. Anal. **133** (1995), 10–20.
64. *Regularity of invariant measures on finite and infinite dimensional spaces and applications* (with Vladimir I. Bogachev), J. Funct. Anal. **133** (1995), 168–223.
65. *Mehler formula and capacities for infinite dimensional Ornstein–Uhlenbeck processes with general linear drift* (with Vladimir I. Bogachev), Osaka J. Math. **32** (1995), 237–274.
66. *Markov processes associated with semi-Dirichlet forms* (with Zhi-Ming Ma and Ludger Overbeck), Osaka J. Math. **32** (1995), 97–119.
67. *Characterization of (non-symmetric) Dirichlet forms associated with Hunt processes* (with Sergio Albeverio and Zhi-Ming Ma), Rand. Op. Stoch. Eq. **3** (1995), 161–179.
68. *Differential geometry of Poisson spaces* (with Sergio Albeverio and Yuri G. Kondratiev), C. R. Acad. Sci. Paris, Série I **323** (1996), 1129–1134.
69. *Canonical Dirichlet operator and distorted Brownian motion on Poisson spaces* (with Sergio Albeverio and Yuri G. Kondratiev), C. R. Acad. Sci. Paris, Série I **323** (1996), 1179–1184.
70. *Regularity of invariant measures: the case of non-constant diffusion part* (with Vladimir I. Bogachev and Nicolai V. Krylov), J. Funct. Anal. **138** (1996), 223–242.

71. *Regularity of invariant measures for a class of perturbed Ornstein–Uhlenbeck operators* (with Vladimir I. Bogachev and Giuseppe Da Prato), *Nonlin. Diff. Eq. Appl.* **3** (1996), 261–268.
72. *Generalized Mehler semigroups and applications* (with Vladimir I. Bogachev and Byron Schmuland), *Prob. Th. Rel. Fields* **105** (1996), 193–225.
73. *Martingale decomposition of Dirichlet processes on the Banach space $C_0[0, 1]$* (with Terry Lyons and Tu-Sheng Zhang), *Stoch. Proc. Appl.* **64** (1996), 31–38.
74. *Finite dimensional approximation of diffusion processes on infinite dimensional state spaces* (with Tu-Sheng Zhang), *Stoch. Stoch. Rep.* **57** (1996), 37–55.
75. *Elliptic regularity and essential self-adjointness of Dirichlet operators on \mathbb{R}^d* (with Vladimir I. Bogachev and Nicolai V. Krylov), *Ann. Scuola Norm. Sup. Pisa Cl. Sci., Serie IV* **XXIV** (1997), no. 3, 451–461.
76. *Uniqueness of Gibbs states on loop lattices* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatjana V. Tsikalenko), *C. R. Acad. Sci. Paris, Série I* **324** (1997), 1401–1406.
77. *Dobrushin’s uniqueness for quantum lattice systems with non-local interaction* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatjana V. Tsikalenko), *Commun. Math. Phys.* **189** (1997), 621–630.
78. *Partitions of unity in Sobolev spaces over infinite dimensional state spaces* (with Sergio Albeverio and Zhi-Ming Ma), *J. Funct. Anal.* **143** (1997), 247–268.
79. *Ergodicity of L^2 -semigroups and extremality of Gibbs states* (with Sergio Albeverio and Yuri G. Kondratiev), *J. Funct. Anal.* **144** (1997), 394–423.
80. *Ergodicity for the stochastic dynamics of quasi-invariant measures with applications to Gibbs states* (with Sergio Albeverio and Yuri G. Kondratiev), *J. Funct. Anal.* **149** (1997), 415–469.
81. *Convergence of operator semigroups generated by elliptic operators* (with Tu-Sheng Zhang), *Osaka J. Math.* **34** (1997), 923–932.
82. *Uniqueness of Gibbs states for quantum lattice systems* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatjana V. Tsikalenko), *Prob. Th. Rel. Fields* **108** (1997), 193–218.
83. *Geometric aspects of finite and infinite dimensional Fleming–Viot processes* (with Ludger Overbeck), *Rand. Op. Stoch. Eq.* **5** (1997), 35–58.
84. *Stochastic analysis on configuration spaces: basic ideas and recent results*, *New directions in Dirichlet forms* (J. Jost et al., eds.), *Studies in Advanced Mathematics*, International Press, 1998, pp. 157–231.
85. *Dirichlet forms on infinite dimensional “manifold-like” state spaces: a survey of recent results and some prospects for the future*, *Probability towards 2000* (L. Accardi et al., eds.), *Lecture Notes in Statistics*, Springer, Berlin, 1998, pp. 287–306.
86. *On the strong Feller property of semigroups generated by non-divergence operators with L^p -drifts* (with Tu-Sheng Zhang), *Stochastic Analysis and Related Topics* (L. Decreasefond et al., eds.), vol. VI, Birkhäuser, 1998, pp. 401–408.

87. *Approximation of arbitrary Dirichlet processes by Markov chains* (with Zhi-Ming Ma and Tu-Sheng Zhang), *Ann. Inst. Henri Poincaré* **34** (1998), 1–22.
88. *Strong uniqueness for a class of infinite dimensional Dirichlet operators and applications to stochastic quantization* (with Vitali I. Liskevich), *Ann. Scuola Norm. Sup. Pisa Cl. Sci., Serie IV* **XXVII** (1998), no. 1, 69–91.
89. *A support property for infinite dimensional interacting diffusion processes* (with Byron Schmulland), *C. R. Acad. Sci. Paris, Série I* **326** (1998), 359–364.
90. *Analysis and geometry on configuration spaces* (with Sergio Albeverio and Yuri G. Kondratiev), *J. Funct. Anal.* **154** (1998), 444–500.
91. *Analysis and geometry on configuration spaces. The Gibbsian case* (with Sergio Albeverio and Yuri G. Kondratiev), *J. Funct. Anal.* **157** (1998), 242–291.
92. *L^p -analysis of finite and infinite dimensional diffusion operators*, *Stochastic PDE's and Kolmogorov's equations in infinite dimensions* (Giuseppe Da Prato, ed.), *Lect. Notes Math.*, vol. 1715, Springer, Berlin, 1999, pp. 65–116.
93. *Existence of invariant measures for diffusion processes on Banach spaces* (with Tu-Sheng Zhang), *Progress in Probability*, vol. 45, Birkhäuser, Basel, 1999, pp. 261–265.
94. *Stochastic quantization of the two-dimensional polymer measure* (with Sergio Albeverio, Yao-Zhong Hu, and Xian Yin Zhou), *Appl. Math. Optim.* **40** (1999), 341–354.
95. *A-priori estimates and existence of Gibbs measures: a simplified proof* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatjana V. Tsikalenko), *C. R. Acad. Sci. Paris, Série I* **328** (1999), 1049–1054.
96. *Elliptic equations for infinite dimensional probability distributions and Lyapunov functions* (with Vladimir I. Bogachev), *C. R. Acad. Sci. Paris, Série I* **329** (1999), 705–710.
97. *On uniqueness of invariant measures for finite and infinite dimensional diffusions* (with Sergio Albeverio and Vladimir I. Bogachev), *Comm. Pure Appl. Math.* **52** (1999), 325–362.
98. *Scattering problem for local perturbations of the free quantum gas* (with Yuri G. Kondratiev, Alexei Y. Konstantinov, and Gennadi V. Shchepa'nuk), *Commun. Math. Phys.* **203** (1999), 421–444.
99. *Probabilistic representation and hyperbound estimates for semigroups* (with Tu-Sheng Zhang), *IDAQP* **2** (1999), 337–358.
100. *Dirichlet operators with variable coefficients in L^p -spaces of functions of infinitely many variables* (with Vitali I. Liskevich and Zeev Sobol), *IDAQP* **2** (1999), 487–502.
101. *Fluctuations and their Glauber dynamics in lattice systems* (with Sergio Albeverio, Alexei Daletskii, and Yuri G. Kondratiev), *J. Funct. Anal.* **166** (1999), 148–167.
102. *Rademacher's theorem on configuration spaces and applications* (with Alexander Schied), *J. Funct. Anal.* **169** (1999), 325–356.

103. *On the martingale problem for pseudo-differential operators on infinite dimensional spaces* (with Vladimir I. Bogachev and Paul Lescot), Nagoya Math. J. **153** (1999), 101–118.
104. *Diffeomorphism groups, current algebras and all that: configuration space analysis in quantum theory* (with Sergio Albeverio and Yuri G. Kondratiev), Rev. Math. Phys. **11** (1999), 1–24.
105. *L^1 -uniqueness for diffusion operators on measurable state spaces: a class of examples.*, Mathematical Physics and Stochastic Analysis. Essays in Honour of Ludwig Streit (Sergio Albeverio et al., eds.), World Scientific, Singapore, 2000, pp. 350–358.
106. *Uniqueness of invariant measures and essential m -dissipativity of diffusion operators on L^1* (with Vladimir I. Bogachev and Wilhelm Stannat), Infinite dimensional Stochastic Analysis (P. Clément et al., eds.), Royal Netherlands Academy of Arts and Sciences, Amsterdam, 2000, pp. 39–54.
107. *Exponential mixing for classical continuous systems* (with Yuri G. Kondratiev, Robert A. Minlos, and Gennadi V. Shchepa'nuk), Stochastic Processes, Physics and Geometry: New Interplays, vol. 1, AMS for the CMS, Providence, Rhode Island, 2000, A volume in honor of Sergio Albeverio, pp. 243–254.
108. *Diffusions on “simple” configuration spaces* (with Zhi-Ming Ma), Stochastic Processes, Physics and Geometry: New Interplays, vol. 1, AMS for the CMS, Providence, Rhode Island, 2000, A volume in honor of Sergio Albeverio, pp. 255–270.
109. *Approximation of Hunt processes by multivariate Poisson processes* (with Zhi-Ming Ma and Wei Sun), Acta Appl. Math. **63** (2000), 233–243.
110. *Stochastic dynamics of compact spins: ergodicity and irreducibility* (with Sergio Albeverio, Alexei Daletskii, and Yuri G. Kondratiev), Acta Appl. Math. **63** (2000), 27–40.
111. *Existence and uniqueness of invariant measures: an approach via sectorial forms* (with Vladimir I. Bogachev and Tu-Sheng Zhang), Appl. Math. Optim. **41** (2000), 87–109.
112. *A-priori estimates on symmetrizing measures and their applications to Gibbs states* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatjana V. Tsikalenko), J. Funct. Anal. **171** (2000), 366–400.
113. *Construction of diffusions on configuration spaces* (with Zhi-Ming Ma), Osaka J. Math. **37** (2000), 273–314.
114. *Generalized Mehler semigroups: The non-Gaussian case* (with Marco Fuhrman), Pot. Anal. **12** (2000), 1–47.
115. *Ray Hölder-continuity for fractional Sobolev spaces in infinite dimensions and applications* (with Jiagang Ren), Prob. Th. Rel. Fields **117** (2000), 201–220.
116. *Uniqueness of Gibbs states of quantum lattices in small mass regime* (with Sergio Albeverio, Yuri G. Kondratiev, and Yuri Kozitsky), Ann. Inst. Henri Poincaré **37** (2001), no. 1, 43–69.

117. *L^p -uniqueness for infinite dimensional symmetric Kolmogorov operators: The case of variable diffusion coefficients* (with Vitali I. Liskevich, Zeev Sobol, and Alexei Us), Ann. Scuola Norm. Sup. Pisa Cl. Sci., Serie IV **XXX** (2001), no. 2, 285–309.
118. *Elliptic equations for invariant measures on Riemannian manifolds: existence and regularity of solutions* (with Vladimir I. Bogachev and Feng-Yu Wang), C. R. Acad. Sci. Paris, Série I **332** (2001), 333–338.
119. *Gibbs states on loop lattices: existence and a priori estimates* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatiana Pasurek), C. R. Acad. Sci. Paris, Série I **333** (2001), 1005–1009.
120. *On regularity of transition functions and invariant measures of singular diffusions under minimal conditions* (with Vladimir I. Bogachev and Nicolai V. Krylov), Comm. PDE **26** (2001), 2037–2080.
121. *Differentiability of the invariant measure and transition probabilities of singular diffusions* (with Vladimir I. Bogachev and Nicolai V. Krylov), Doklady Math. Russian Acad. Sci. **63** (2001), 18–21, translated from Doklady Akademii Nauk., vol. 376 (2001), 151–154.
122. *Elliptic equations associated with invariant measures of diffusions on finite- and infinite-dimensional manifolds* (with Vladimir I. Bogachev and Feng-Yu Wang), Doklady Math. Russian Acad. Sci. **63** (2001), 351–354, translated from Doklady Akademii Nauk., vol. 378 (2001), 439–442.
123. *Gauss formula and symmetric extensions of the Laplacian on configuration spaces* (with Dimitri L. Finkelshtein, Yuri G. Kondratiev, and Alexei Y. Konstantinov), IDAQP **4** (2001), 489–509.
124. *Stochastic dynamics of fluctuations in classical continuous systems* (with Sergio Albeverio, Martin Grothaus, and Yuri G. Kondratiev), J. Funct. Anal. **185** (2001), 129–154.
125. *Poincaré inequality for weighted first order Sobolev spaces on loop spaces* (with Fu-Zhou Gong and Li-Ming Wu), J. Funct. Anal. **185** (2001), 527–563.
126. *Weak Poincaré inequalities and L^2 -convergence rates of Markov semigroups* (with Feng-Yu Wang), J. Funct. Anal. **185** (2001), 564–603.
127. *Elliptic equations for invariant measures on finite and infinite dimensional manifolds* (with Vladimir I. Bogachev and Feng-Yu Wang), J. Math. Pures Appl. **80** (2001), 177–221.
128. *On a relation between intrinsic and extrinsic Dirichlet forms for interacting particle systems* (with Yuri G. Kondratiev and Jose-Luis da Silva), Math. Nachrichten **222** (2001), 141–157.
129. *Euclidean Gibbs states of quantum crystals* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatiana Pasurek), Moscow Math. J. **1** (2001), 1–7, (English version), 307–313 (Russian version).
130. *Elliptic equations for measures on infinite dimensional spaces and applications* (with Vladimir I. Bogachev), Prob. Th. Rel. Fields **120** (2001), 445–496.

131. *Glauber dynamics for quantum lattice systems* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatjana V. Tsikalenko), *Rev. Math. Phys.* **13** (2001), 51–124.
132. *Invariant measures of diffusion processes: regularity, existence and uniqueness problems* (with Vladimir I. Bogachev), *Stochastic partial differential equations and applications* (Giuseppe Da Prato et al., eds.), Marcel Dekker, Inc., New York, 2002, pp. 69–87.
133. *Gibbs states of a quantum crystal: uniqueness by small particle mass* (with Sergio Albeverio, Yuri G. Kondratiev, and Yuri Kozitsky), *C. R. Acad. Sci. Paris, Série I* **335** (2002), 693–698.
134. *Surface measures and tightness of Sobolev capacities on Poisson space* (with Vladimir I. Bogachev and Oleg V. Pugachev), *Dokl. Math. (Dokl. Russian Acad. Sci.)* **66:2** (2002), 157–160.
135. *Invariant measures of stochastic gradient systems in Riemannian manifolds and Gibbs measures* (with Vladimir I. Bogachev and Feng-Yu Wang), *Dokl. Math. (Dokl. Russian Acad. Sci.)* **66:2** (2002), 179–183.
136. *On weak parabolic equations for probability measures* (with Vladimir I. Bogachev and Giuseppe Da Prato), *Dokl. Math. (Dokl. Russian Acad. Sci.)* **66:2** (2002), 192–196.
137. *Generators of Mehler-type semigroups as pseudo-differential operators* (with Paul Lescot), *IDAQP* **5** (2002), 297–315.
138. *Surface measures and tightness of (r, p) -capacities on Poisson space* (with Vladimir I. Bogachev and Oleg V. Pugachev), *J. Funct. Anal.* **196** (2002), 61–86.
139. *Uniqueness of solutions of elliptic equations and uniqueness of invariant measures of diffusions* (with Vladimir I. Bogachev and Wilhelm Stannat), *Matem. Sbornik.* **193:7** (2002), 3–36, (Russian version), 945–976 (English version).
140. *Singular dissipative stochastic equations in Hilbert spaces* (with Giuseppe Da Prato), *Prob. Th. Rel. Fields* **124** (2002), 261–303.
141. *Euclidean Gibbs states of quantum lattice systems* (with Sergio Albeverio, Yuri G. Kondratiev, and Yuri Kozitsky), *Rev. Math. Phys.* **14:12** (2002), 1335–1401.
142. *A generalization of Hasminskii’s theorem on existence of invariant measures for locally integrable drifts* (with Vladimir I. Bogachev), *Th. Prob. Appl.* **45** (2002), 363–378, translated from *Th. Prob. Appl.*, vol. 45 (2000) 417–436.
143. *Strong Feller properties for distorted Brownian motion and applications to finite particle systems with singular interactions* (with Sergio Albeverio and Yuri G. Kondratiev), “Finite and Infinite Dimensional Analysis in Honor of Leonard Gross” (H.H. Kuo et al., eds.), *Contemporary Mathematics*, Vol. 317, Amer. Math. Soc., 2003.
144. *Symmetrizing measures for infinite dimensional diffusions: an analytic approach* (with Sergio Albeverio and Yuri G. Kondratiev), “Geometric analysis and nonlinear partial differential equations” (Stefan Hildebrandt et al., eds.), Springer, Berlin, 2003, pp. 475–486.

145. *Scaling limits of stochastic dynamics in classical continuous systems* (with Martin Grothaus, Yuri G. Kondratiev, and Eugene Lytvynov), *Ann. Prob.* **31:3** (2003), 1494–1532.
146. *Large deviations for invariant measures of general stochastic reaction-diffusion systems* (with Sandra Cerrai), *C. R. Acad. Sci. Paris, Série I* **337** (2003), 597–602.
147. *Small mass implies uniqueness of Gibbs states of a quantum crystal* (with Sergio Albeverio, Yuri G. Kondratiev, and Yuri Kozitsky), *Commun. Math. Phys.* **241** (2003), 69–90.
148. *Quantum anharmonic crystal in functional integral approach* (with Yuri G. Kondratiev, Yuri Kozitsky, and Tatiana Pasurek), *Condensed Matter Physics* **6:4** (2003), 647–674.
149. *Supercontractivity and ultracontractivity of (non-symmetric) diffusion semigroups on manifolds* (with Feng-Yu Wang), *Forum Math.* **15** (2003), 893–921.
150. *Lower order perturbations of Dirichlet processes* (with Tu-Sheng Zhang), *Forum Math.* **15:2** (2003), 285–297.
151. *Harnack and functional inequalities for generalized Mehler semigroups* (with Feng-Yu Wang), *J. Funct. Anal.* **203** (2003), 237–261.
152. *On L^p -uniqueness of symmetric diffusion operators on Riemannian manifolds* (with Vladimir I. Bogachev), *Matem. Sbornik.* **194(7)** (2003), 969–978.
153. *Quantum stabilization in anharmonic crystals* (with Sergio Albeverio, Yuri G. Kondratiev, and Yuri Kozitsky), *Phys. Rev. Lett.* **90:17** (2003), 170603–170607.
154. *The heat semigroup on configuration spaces* (with Yuri G. Kondratiev and Eugene Lytvynov), *Publ. Res. Inst. Math. Sci., Kyoto University* **39:1** (2003), 1–48.
155. *L^1 -theory for the Kolmogorov operators of stochastic generalized Burgers equations* (with Zeev Sobol), *Quantum Information and Complexity: Proceedings of the 2003 Meijo Winter School and Conference* (T. Hida, K. Saitô, and Si Si, eds.), World Scientific, 2004, pp. 87–105.
156. *Invariant measures for a stochastic porous medium equation* (with Giuseppe Da Prato), *Stochastic Analysis and Related Topics* (Hiroshi Kunita, Yoichiro Takanashi, and Shinzo Watanabe, eds.), *Advanced Studies in Pure Mathematics*, vol. 41, Math. Soc. Japan, 2004, pp. 13–29.
157. *Large deviations for stochastic reaction-diffusion systems with multiplicative noise and non-Lipschitz reaction term* (with Sandra Cerrai), *Ann. Prob.* **32** (2004), no. 1B, 1100–1139.
158. *Euclidean Gibbs measures on loop lattices: existence and a priori estimates* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatiana Pasurek), *Ann. Prob.* **32** (2004), no. 1A, 153–190.
159. *On the spectrum of a class of non-sectorial diffusion operators* (with Feng-Yu Wang), *Bull. London Math. Soc.* **36** (2004), 95–104.

160. *A new approach to Kolmogorov equations in infinite dimensions and applications to stochastic generalized Burgers equations* (with Zeev Sobol), C. R. Acad. Sci. Paris, Série I **338** (2004), no. 12, 945–949.
161. *Global gradient bounds for dissipative diffusion operators* (with Vladimir I. Bogachev, Giuseppe Da Prato, and Zeev Sobol), C. R. Acad. Sci. Paris, Série I **339** (2004), no. 4, 277–282.
162. *Invariance implies Gibbsian: some new results* (with Vladimir I. Bogachev and Feng-Yu Wang), Commun. Math. Phys. **248** (2004), no. 2, 335–355.
163. *Invariant measures of stochastic generalized porous medium equations* (with Vladimir I. Bogachev and Giuseppe Da Prato), Doklady Math. Russian Acad. Sci. **396** (2004), no. 1, 6, English translation: Russ. Math. Dokl.
164. *Weak solutions to stochastic porous media equations* (with Giuseppe Da Prato), J. Evol. Equ. **4** (2004), 249–271.
165. *Uniqueness of diffusion generators for two types of particle systems with singular interactions* (with Yuri G. Kondratiev and Alexei Y. Konstantinov), J. Funct. Anal. **212** (2004), no. 2, 357–372.
166. *On diffusion dynamics for continuous systems with singular superstable interaction* (with Yuri G. Kondratiev and Alexei L. Rebenko), J. Math. Phys. **45** (2004), no. 5, 1826–1848.
167. *Perturbations of generalized Mehler semigroups and applications to stochastic heat equations with Lévy noise and singular drift* (with Paul Lescot), Pot. Anal. **20** (2004), no. 4, 317–344.
168. *Existence of solutions to weak parabolic equations for measures* (with Vladimir I. Bogachev and Giuseppe Da Prato), Proc. London Math. Soc. **88** (2004), no. 3, 753–774.
169. *Sample path large deviations for diffusion processes on configuration spaces over a Riemannian manifold* (with Tu-Sheng Zhang), Publ. Res. Inst. Math. Sci., Kyoto University **40** (2004), no. 2, 385–427.
170. *PDE approach to invariant and Gibbs measures with applications*, Infinite dimensional harmonic analysis III. Proceedings of the Third German-Japanese Symposium, University of Tübingen, Germany, 2003 (Herbert Heyer et al., eds.), World Scientific, 2005.
171. *A remark on sets in infinite dimensional spaces with full or zero capacity* (with Jiagang Ren), Stochastic Analysis: Classical and Quantum. Perspectives of white noise theory (Takeyuki Hida, ed.), World Scientific, 2005, pp. 177–186.
172. *Euclidean Gibbs measures of quantum crystals: existence, uniqueness and a priori estimates* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatiana Pasurek), Interacting Stochastic Systems (J.D. Deuschel and A. Greven, eds.), Springer, 2005, pp. 29–54.
173. *An analytic approach to Kolmogorov’s equations in infinite dimensions and probabilistic consequences*, XIVth International Congress on Mathematical Physics, World Scientific, 2005, invited talk at the International Congress on Mathematical Physics (ICMP) 2003, pp. 520–526.

174. *Large deviations for invariant measures of stochastic reaction diffusion systems with multiplicative noise and non-Lipschitz reaction term* (with Sandra Cerrai), *Ann. Inst. Henri Poincaré* **41** (2005), no. 1, 69–105.
175. *Homogenization with respect to Gibbs measures for periodic drift diffusions on lattices* (with Sergio Albeverio, Simonetta Bernabei, and Minoru W. Yoshida), *C. R. Acad. Sci. Paris – Mathematics* **341** (2005), no. 11, 675–678.
176. *Regularity and global bounds of densities of invariant measures of diffusion processes* (with Vladimir I. Bogachev and Nicolai V. Krylov), *Dokl. Math. (Dokl. Russian Acad. Sci.)* **72** (2005), no. 3, 934–938, (English translation; Russian version: *Doklady Akademii Nauk* **405** (2005), no. 5, 583–587).
177. *Strong solutions for stochastic equations with singular time dependent drift* (with Nicolai V. Krylov), *Prob. Th. Rel. Fields* **131** (2005), no. 2, 154–196.
178. *Global regularity and bounds for solutions of parabolic equations for probability measures* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Teor. Veroyatn. Primen.* **50** (2005), no. 4, 652–674, English translation: *Theory Probab. Appl.* **50** (2006), no. 4, 561–581.
179. *Existence and a-priori estimates for Euclidean Gibbs states* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatiana Pasurek), *Trans. Moscow Math. Soc.* **66** (2005), 3–101.
180. *Gradient bounds for solutions of elliptic and parabolic equations* (with Vladimir I. Bogachev, Giuseppe Da Prato, and Zeev Sobol), *Stochastic Partial Differential Equations and Applications. VII* (Giuseppe Da Prato and Luciano Tubaro, eds.), Chapman and Hall/CRC, 2006, pp. 27–34.
181. *Kolmogorov equations in infinite dimensions: well-posedness, regularity of solutions, and applications to stochastic generalized Burgers equations* (with Zeev Sobol), *Ann. Probab.* **34** (2006), no. 2, 663–727.
182. *Dissipative stochastic equations in Hilbert space with time dependent coefficients* (with Giuseppe Da Prato), *Atti Accad. Naz. Lincei Rend. Lincei Mat. Appl.* **17** (2006), no. 4, 397–403.
183. *Strong solutions of stochastic generalized porous media equations: existence, uniqueness and ergodicity* (with Giuseppe Da Prato, Boris L. Rozovskii, and Feng-Yu Wang), *Comm. PDE* **31** (2006), no. 2, 277–291.
184. *Infinite interacting diffusion particles I: Equilibrium process and its scaling limit* (with Yuri G. Kondratiev and Eugene Lytvynov), *Forum Math.* **18** (2006), no. 1, 9–43.
185. *Markov processes associated with L^p -resolvents and applications to stochastic differential equations on Hilbert space* (with Lucian Beznea and Nicu Boboc), *J. Evol. Equ.* **6** (2006), no. 4, 745–772.
186. *Weak solutions to the stochastic porous media equation via Kolmogorov equations: the degenerate case* (with Viorel Barbu, Vladimir I. Bogachev, and Giuseppe Da Prato), *J. Funct. Anal.* **237** (2006), no. 1, 54–75.

187. *Elliptic equations for measures: regularity and global bounds of densities* (with Vladimir I. Bogachev and Nicolai V. Krylov), *J. Math. Pures Appl.* **85** (2006), no. 6, 743–757.
188. *Functional inequalities for particle systems on polish spaces* (with Feng-Yu Wang), *Pot. Anal.* **24** (2006), no. 3, 223–243.
189. *Quasi-regular topologies for L^p -resolvents and semi-Dirichlet forms* (with Lucian Beznea and Nicu Boboc), *Pot. Anal.* **25** (2006), no. 3, 269–282.
190. *Large deviations for stochastic generalized porous media equations* (with Feng-Yu Wang and Li-Ming Wu), *Stoch. Proc. Appl.* **116** (2006), no. 12, 1677–1689.
191. *A concise course on stochastic partial differential equations* (with Claudia Prévôt), monograph, *Lecture Notes in Mathematics 1905*, Springer, Berlin, 2007, pp. vi+144.
192. *A note on evolution systems of measures for time-dependent stochastic differential equations* (with Giuseppe Da Prato), *Progress in Probability*, Vol.59 (Robert C. Dalang, Marco Dozzi, and Francesco Russo, eds.), Birkhaeuser, 2007, pp. 115–122.
193. *Compact excessive functions and Markov processes: a general case and applications* (with Lucian Beznea and A. Cornea), *RIMS Kôkyûroku Bessatsu B6*, *Proceedings of RIMS Workshop on Stochastic Analysis and Applications*, 2007, pp. 31–37.
194. *Uniqueness of solutions to weak parabolic equations for measures* (with Vladimir I. Bogachev, Giuseppe Da Prato, and Wilhelm Stannat), *Bull. London Math. Soc.* **39** (2007), no. 4, 631–640.
195. *A new approach to Kolmogorov equations in infinite dimensions and applications to the stochastic 2D Navier Stokes equation* (with Zeev Sobol), *C. R. Acad. Sci. Paris, Série I* **338** (2007), no. 12, 945–949.
196. *Equilibrium Glauber and Kawasaki dynamics of continuous particle systems* (with Yuri G. Kondratiev and Eugene Lytvynov), *IDAQP* **10** (2007), no. 2, 185–209.
197. *Concentration of invariant measures for stochastic generalized porous media equations* (with Feng-Yu Wang), *IDAQP* **10** (2007), no. 3, 397–409.
198. *A remark on the generator of a right-continuous Markov process* (with Gerald Trutnau), *IDAQP* **10** (2007), no. 4, 633–640.
199. † *Stochastic generalized porous media and fast diffusion equations* (with Jiagang Ren and Feng-Yu Wang), *J. Diff. Equations* **238** (2007), no. 1, 118–152.
200. *Essential self-adjointness of Dirichlet operators on a path space with Gibbs measures via an SPDE approach* (with Hiroshi Kawabi), *J. Funct. Anal.* **242** (2007), no. 2, 486–518.
201. *Stochastic evolution equations of jump type: existence, uniqueness and large deviation principles* (with Tu-Sheng Zhang), *Pot. Anal.* **26** (2007), no. 3, 255–279.
202. *Kusuoka-Stroock formula on configuration space and regularities for local times with jumps* (with Jiagang Ren and Xicheng Zhang), *Pot. Anal.* **26** (2007), 363–396.

†Top Cited Article 2007–2011 of *J. Diff. Equations*

203. *N/V-limit for stochastic dynamics in continuous particle systems* (with Martin Grothaus and Yuri G. Kondratiev), *Prob. Th. Rel. Fields* **137** (2007), no. 1–2, 121–160.
204. *Estimates of densities of stationary distributions and transition probabilities of diffusion processes* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Teor. Veroyatn. i Primen.* **52** (2007), no. 2, 240–270, English translation: *Theory Probab. Appl.* **52** (2008), no. 2, 209–236.
205. *Some results on stochastic porous media equations* (with Viorel Barbu and Giuseppe Da Prato), *Bollettino U.M.I. (9) I* (2008), 1–15.
206. *Markov processes associated with L^p -resolvents, applications to quasi-regular Dirichlet forms and stochastic differential equations* (with Lucian Beznea and Nicu Boboc), *C. R. Acad. Sci. Paris, Série I* **346** (2008), no. 5–6, 323–328.
207. *On parabolic equations for measures* (with Vladimir I. Bogachev and Giuseppe Da Prato), *Comm. PDE* **33** (2008), no. 1-3, 397–418.
208. *Yamada-Watanabe theorem for stochastic evolution equations in infinite dimensions* (with Byron Schmulland and Xicheng Zhang), *Cond. Matt. Phys.* **11** (2008), no. 2, 247–259.
209. *Non-equilibrium stochastic dynamics in continuum: the free case* (with Yuri G. Kondratiev and Eugene Lytvynov), *Cond. Matt. Phys.* **11** (2008), no. 4, 701–721.
210. *Parabolic equations for measures on infinite-dimensional spaces* (with Vladimir I. Bogachev and Giuseppe Da Prato), *Doklady Math. Russian Acad. Sci.* **421** (2008), no. 4, 439–444, English translation: *Dokl. Math.* **78** (2008), no. 1.
211. *Infinite dimensional Kolmogorov operators with time dependent drift* (with Vladimir I. Bogachev and Giuseppe Da Prato), *Doklady Math. Russian Acad. Sci.* **77** (2008), no. 2, 276–280, Russian version: *Dokl. Russian Akad.* **419** (2008), no. 5, pp. 587–591.
212. *Existence and uniqueness of non negative solutions to the stochastic porous media equation* (with Viorel Barbu and Giuseppe Da Prato), *Indiana Univ. Math. J.* **57** (2008), no. 1, 187–212.
213. *Non-monotone stochastic generalized porous media equations* (with Feng-Yu Wang), *J. Diff. Equations* **245** (2008), no. 12, 3898–3935.
214. *The statistical mechanics of quantum lattice systems: A path integral approach* (with Sergio Albeverio, Yuri G. Kondratiev, and Yuri Kozitsky), monograph, *Tracts in Mathematics* 8 of the EMS, 2009, pp. xiii+379.
215. *Self-organized criticality via stochastic partial differential equations* (with Viorel Barbu, Philippe Blanchard, and Giuseppe Da Prato), *Theta Series in Advanced Mathematics*, “Potential Theory and Stochastic Analysis” in *Albac. Aurel Cornea Memorial Volume*, 2009, pp. 11–19.
216. *Existence of strong solutions for stochastic porous media equation under general monotonicity conditions* (with Viorel Barbu and Giuseppe Da Prato), *Ann. Prob.* **37** (2009), no. 2, 428–452.

217. *Finite time extinction for solutions to fast diffusion stochastic porous media equations* (with Viorel Barbu and Giuseppe Da Prato), C. R. Acad. Sci. Paris – Mathematics **347** (2009), no. 1–2, 81–84.
218. *Stochastic porous media equation and self-organized criticality* (with Viorel Barbu and Giuseppe Da Prato), Commun. Math. Phys. **285** (2009), no. 3, 901–923.
219. *Lower estimates of densities of solutions of elliptic equations for measures* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), Doklady Math. Russian Acad. Sci. **426** (2009), no. 2, 156–161.
220. *Nonlinear evolution and transport equations for measures* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), Doklady Math. Russian Acad. Sci. **80** (2009), no. 3, 785–789.
221. *Tamed 3D Navier-Stokes equation: Existence, uniqueness and regularity* (with Xicheng Zhang), IDAQP (2009), no. 4, 525–549.
222. *A Note on variational solutions to SPDE perturbed by Gaussian noise in a general class* (with Yi Wang), IDAQP **12** (2009), 353–358.
223. *Fokker-Planck equations and maximal dissipativity of Kolmogorov operators with time dependent singular drifts in Hilbert spaces* (with Vladimir I. Bogachev and Giuseppe Da Prato), J. Funct. Anal. **256** (2009), no. 4, 1269–1298.
224. *Singular stochastic equations on Hilbert spaces: Harnack inequalities for their transition semigroups* (with Giuseppe Da Prato and Feng-Yu Wang), J. Funct. Anal. **257** (2009), no. 4, 992–1017.
225. *Erratum: “Singular dissipative stochastic equations in Hilbert spaces”* (with Giuseppe Da Prato), Prob. Th. Rel. Fields **143** (2009), no. 3–4, 659–664.
226. *Stochastic tamed 3D Navier-Stokes equations: existence, uniqueness and ergodicity* (with Xicheng Zhang), Prob. Th. Rel. Fields **145** (2009), 211–267.
227. *Stochastic nonlinear diffusion equations with singular diffusivity* (with Viorel Barbu and Giuseppe Da Prato), SIAM J. for Math. Anal. **41** (2009), 1106–1120.
228. *Martingale solutions and Markov selections for stochastic partial differential equations* (with Benjamin Goldys and Xicheng Zhang), Stoch. Proc. Appl. **119** (2009), no. 5, 1725–1764.
229. *Positive densities of transition probabilities of diffusion processes* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), Th. Prob. Appl. **53** (2009), no. 2, 213–239, Russian version: Teor. Veroyatn. i Primen. **53** (2008), no. 2.
230. *Elliptic and parabolic equations for measures* (with Vladimir I. Bogachev and Nicolai V. Krylov), Uspekhi Mat. Nauk **64** (2009), no. 6(390), 5–116, (Rossiiskaya Akademiya Nauk. Moskovskoe Matematicheskoe Obshchestvo. Uspekhi Matematicheskikh Nauk) English translation: Russ. Math. Surv. **64** (2009), no. 6, 973–1078.

231. *Probabilistic representation for solutions of an irregular porous media type equation.* (with Philippe Blanchard and Francesco Russo), *Ann. Prob.* **38** (2010), no. 5, 1870–1900.
232. *Large deviations for stochastic tamed 3D-Navier-Stokes equations* (with Tu-Sheng Zhang and Xicheng Zhang), *Appl. Math. Optim.* **61** (2010), no. 2, 267–285.
233. *Weak uniqueness of Fokker–Planck equations with degenerate and bounded coefficients* (with Xicheng Zhang), *C. R. Acad. Sci. Paris, Série I* (2010), no. 7-8, 435–438.
234. *BV functions in a Gelfand triple and the stochastic reflection problem on a convex set of a Hilbert space* (with Rongchan Zhu and Xiangchan Zhu), *C. R. Acad. Sci. Paris, Série I* **348** (2010), no. 21–22, 1175–1178.
235. *Well-posedness and asymptotic behavior for stochastic reaction-diffusion equations with multiplicative Poisson noise* (with Carlo Marinelli), *Electron. J. Probab.* **15** (2010), no. 49, 1529–1555.
236. *Log-Harnack inequality for stochastic differential equations in Hilbert spaces and its consequences* (with Feng-Yu Wang), *IDAQP* **13** (2010), no. 1, 27–37.
237. *On uniqueness of mild solutions for dissipative stochastic evolution equations* (with Carlo Marinelli), *IDAQP* **13** (2010), no. 3, 363–376.
238. *Existence and uniqueness of solutions for Fokker–Planck equations on Hilbert spaces* (with Vladimir I. Bogachev and Giuseppe Da Prato), *J. Evol. Equ.* **10** (2010), no. 3, 487–509.
239. *Regular dependence on initial data for stochastic evolution equations with multiplicative Poisson noise* (with Carlo Marinelli and Claudia Prévôt), *J. Funct. Anal.* **258** (2010), no. 2, 616–649.
240. *Stochastic partial differential equations in Hilbert space with locally monotone coefficients* (with Wei Liu), *J. Funct. Anal.* **259** (2010), no. 11, 2902–2922.
241. *Nonlinear evolution equations for measures on infinite dimensional spaces* (with Vladimir I. Bogachev, Giuseppe Da Prato, and Stanislav V. Shaposhnikov), vol. 25, *Quad. Mat., Dept. Math., Seconda Univ. Napoli, Caserta*, 2010, In *Stochastic partial differential equations and applications*, pp. 51–64.
242. *Nonlinear evolution for measures on infinite dimensional spaces* (with Vladimir I. Bogachev, Giuseppe Da Prato, and Stanislav V. Shaposhnikov), *Stoch. PDE: Quad. Mat.* **25** (2010), 51–64.
243. *Existence results for Fokker-Planck equations in Hilbert spaces* (with Vladimir I. Bogachev and Giuseppe Da Prato), *Progress in Probability*, vol. 63, 2011, pp. 23–35.
244. *Cores for generators of some Markov semigroups* (with Giuseppe Da Prato), *Proceedings of the Centennial Conference “Alexandra Muller” Mathematical Seminar, Iasi, Romania, 21–26 June 2010* (Viorel Barbu and Ovidiu Carja, eds.), 2011, pp. 87–97.

245. *From resolvents to càdlàg processes through compact excessive functions and applications to singular SDE on Hilbert spaces* (with Lucian Beznea), Bull. Sci. Math. **135** (2011), no. 6–7, 844–870.
246. *The global random attractor for a class of stochastic porous media equations* (with Wolf-Jürgen Beyn, Benjamin Gess, and Paul Lescot), Comm. PDE **36** (2011), no. 3, 446–469.
247. *Uniqueness for solutions of Fokker–Planck equations on infinite dimensional spaces* (with Vladimir I. Bogachev and Giuseppe Da Prato), Comm. PDE **36** (2011), no. 6, 925–939.
248. *Applications of compact superharmonic functions: Path regularity and tightness of capacities* (with Lucian Beznea), Compl. Anal. Oper. Th. **5** (2011), no. 3, 731–741.
249. *Random attractors for a class of stochastic partial differential equations driven by general additive noise* (with Benjamin Gess and Wei Liu), J. Diff. Equations **251** (2011), no. 4–5, 1225–1253.
250. *On a random scaled porous media equation* (with Viorel Barbu), J. Diff. Equations **251** (2011), no. 9, 2494–2514.
251. *Potential theory of infinite dimensional Lévy processes* (with Lucian Beznea and A. Cornea), J. Funct. Anal. **261** (2011), no. 10, 2845–2876.
252. *On uniqueness problems related to elliptic equations for measures* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), J. Math. Sci. **176** (2011), no. 6, 759–773.
253. *On uniqueness problems related to the Fokker–Planck–Kolmogorov equation for measures* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), J. Math. Sci. **179** (2011), no. 1, 7–47.
254. *Dimension-independent Harnack inequalities for subordinated semigroups* (with Maria Gordina and Feng-Yu Wang), Pot. Anal. **34** (2011), no. 3, 293–307.
255. *Probabilistic representation for solutions of an irregular porous media type equation: the degenerate case.* (with Viorel Barbu and Francesco Russo), Prob. Th. Rel. Fields **151** (2011), no. 1–2, 1–43.
256. *The stochastic reflection problem on an infinite dimensional convex set and BV functions in a Gelfand triple* (with Rongchan Zhu and Xiangchan Zhu), Ann. Prob. **40** (2012), no. 4, 1759–1794.
257. *Well posedness of Fokker–Planck equations for generators of time-inhomogeneous Markovian transition probabilities* (with Giuseppe Da Prato), Atti Accad. Naz. Lincei Rend. Lincei Mat. Appl. **23** (2012), no. 4, 361–376.
258. *Stochastic porous media equations and self-organized criticality: convergence to the critical state in all dimensions* (with Viorel Barbu), Commun. Math. Phys. **311** (2012), no. 2, 539–555.

259. *On positive and probability solutions to the stationary Fokker-Planck-Kolmogorov equation* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Doklady Math. Russian Acad. Sci.* (2012), no. 85, 350–354.
260. *Localization of solutions to stochastic porous media equations: finite speed of propagation* (with Viorel Barbu), *Electron. J. Probab.* **17** (2012), no. 10, 1–10.
261. *Stochastic quasi-geostrophic equations* (with Rongchan Zhu and Xiangchan Zhu), *IDAQP* **15** (2012), no. 1, 1250001–1–1250001–6.
262. *Phase transitions and quantum effects in anharmonic crystals* (with Sergio Albeverio, Yuri Kozitsky, and Yuri G. Kondratiev), *Int. J. Mod. Phys. B* **26** (2012), no. 11, 1250063–1–1250063–32.
263. *Regularity analysis for stochastic partial differential equations with nonlinear multiplicative trace class noise* (with Arnulf Jentzen), *J. Diff. Equations* **252** (2012), no. 1, 114–136.
264. *Stochastic 3D-tamed Navier–Stokes equation: existence, uniqueness and small time large deviation principles* (with Tu-Sheng Zhang), *J. Diff. Equations* **252** (2012), no. 1, 716–744.
265. *Strong uniqueness for both Dirichlet operators and stochastic dynamics for Gibbs measures on a path space with exponential interactions* (with Sergio Albeverio and Hiroshi Kawabi), *J. Funct. Anal.* **262** (2012), no. 2, 602–638.
266. *Finite time extinction of solutions to fast diffusion equations driven by linear multiplicative noise* (with Viorel Barbu and Giuseppe Da Prato), *J. Math. Anal. Appl.* **389** (2012), no. 1, 147–164.
267. *Harnack inequalities and applications for Ornstein–Uhlenbeck semigroups with jumps* (with Shun-Xiang Ouyang and Feng-Yu Wang), *Pot. Anal.* **36** (2012), no. 2, 301–315.
268. *Gibbs measures of continuous systems: An analytic approach* (with Yuri G. Kondratiev and Tatiana Pasurek), *Rev. Math. Phys.* **24** (2012), no. 10, 1250026–1–1250026–54.
269. *Strong uniqueness for stochastic evolution equations in Hilbert spaces with bounded measurable drift* (with Giuseppe Da Prato, Franco Flandoli, and Enrico Priola), *Ann. Prob.* **41** (2013), no. 5, 3306–3344.
270. *Stochastic variational inequalities and applications to the total variation flow perturbed by linear multiplicative noise* (with Viorel Barbu), *Arch. Rational Mech. Anal.* **209** (2013), no. 3, 797–834.
271. *Fokker-Planck equations for SPDE with non-trace class noise* (with Giuseppe Da Prato and Franco Flandoli), *Commun. Math. Stat.* **1** (2013), no. 3, 281–304.
272. *Local and global well-posedness of SPDE with generalized coercivity condition* (with Wei Liu), *J. Diff. Equations* **254** (2013), no. 2, 725–755.
273. *The finite speed of propagation for solutions to nonlinear stochastic wave equations driven by multiplicative noise* (with Viorel Barbu), *J. Diff. Equations* **255** (2013), no. 3, 560–571.

274. *On uniqueness of solutions to the Cauchy problem for degenerate Fokker–Planck–Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *J. Evol. Equ.* **13** (2013), no. 3, 577–593.
275. *Gibbs states over the cone of discrete measures* (with Dennis Hagedorn, Yuri G. Kondratiev, and Tatiana Pasurek), *J. Funct. Anal.* **264** (2013), no. 11, 2550–2583.
276. *General extinction results for stochastic partial differential equations and applications* (with Feng-Yu Wang), *J. London Math. Soc.* **87** (2013), no. 2, 545–560.
277. *Large deviation principles for the stochastic quasi-geostrophic equation* (with Wei Liu and Xiangchan Zhu), *Stoch. Proc. Appl.* **123** (2013), no. 8, 3299–3327.
278. *Stochastic generalized porous media equations with reflection* (with Feng-Yu Wang and Tu-Sheng Zhang), *Stoch. Proc. Appl.* **123** (2013), no. 11, 3943–3962.
279. *Vector analysis for Dirichlet forms and quasilinear PDE and SPDE on fractals* (with Michael Hinz and Alexander Teplav), *Stoch. Proc. Appl.* **123** (2013), no. 12, 4373–4406.
280. *Quasi regular Dirichlet forms and the stochastic quantization problem* (with Sergio Albeverio and Zhi-Ming Ma), *Festschrift Masatoshi Fukushima* (Zhen-Quing Chen, Niels Jacob, Masayoshi Takeda, and Toshihiro Uemura, eds.), World Scientific, 2014, In Honor of Masatoshi Fukushima’s Sanju.
281. *On existence of Lyapunov functions for a stationary Kolmogorov equation with a probability solution* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Doklady Math. Russian Acad. Sci.* **457** (2014), no. 2, 136–140, English translation: *Doklady Math.* **90** (2014), no. 1, 424–428.
282. *Stochastic nonlinear Schrödinger equations with linear multiplicative noise: the rescaling approach* (with Viorel Barbu and Deng Zhang), *IJNS* **24** (2014), no. 3, 383–409.
283. *On continuity equations in infinite dimensions with non-Gaussian reference measure* (with A. V. Kolesnikov), *J. Funct. Anal.* **266** (2014), no. 7, 4490–4537.
284. *A note on stochastic semilinear equations and their associated Fokker–Planck equations* (with Rongchan Zhu and Xiangchan Zhu), *J. Math. Anal. Appl.* **415** (2014), no. 1, 83–109.
285. *On maximal inequalities for purely discontinuous martingales in infinite dimensions* (with Carlo Marinelli), *Lecture Notes in Mathematik: Seminaire de Probabilités XLVI* **2123** (2014), 293–315.
286. *On parabolic inequalities for generators of diffusions with jumps* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Prob. Th. Rel. Fields* **158** (2014), no. 1–2, 465–476.
287. *Uniqueness for continuity equations in Hilbert spaces with weakly differentiable drift* (with Giuseppe Da Prato and Franco Flandoli), *Stoch. PDE: Anal. Comp.* **2** (2014), no. 2, 121–145.

288. *Local existence and non-explosion of solutions for stochastic fractional partial differential equations driven by multiplicative noise* (with Rongchan Zhu and Xiangchan Zhu), *Stoch. Proc. Appl.* **124** (2014), no. 5, 1974–2002.
289. *Fokker–Planck–Kolmogorov equations* (with Vladimir I. Bogachev, Nicolai V. Krylov, and Stanislav V. Shaposhnikov), *Mathematical Surveys and Monographs*, 207, American Mathematical Society, Providence, RI, 2015, pp. xii+479. Russian version: Izhewsk Institute of Computer Science, 2013.
290. *Stochastic Partial Differential Equations: An Introduction* (with Wei Liu), Universitext, Springer, Cham, 2015, pp. vi+266.
291. *Sub- and supercritical stochastic quasi-geostrophic equations* (with Rongchan Zhu and Xiangchan Zhu), *Ann. Prob.* **43** (2015), no. 3, 1202–1273.
292. *An analytic approach to infinite-dimensional continuity and Fokker–Planck–Kolmogorov equations* (with Vladimir I. Bogachev, Giuseppe Da Prato, and Stanislav V. Shaposhnikov), *Ann. Scuola Norm. Sup. Pisa Cl. Sci.* **14** (2015), no. 3, 983–1023.
293. *BV functions in a Gelfand triple for differentiable measures and its applications* (with Rongchan Zhu and Xiangchan Zhu), *Forum Math.* **27** (2015), no. 3, 1657–1687.
294. *A Milstein scheme for SPDE’s* (with Arnulf Jentzen), *Found. Comput. Math.* **15** (2015), no. 2, 313–362.
295. *About the infinite dimensional skew and obliquely reflected Ornstein–Uhlenbeck process* (with Gerald Trutnau), *IDAQP* **18** (2015), no. 4, 1550031(1)–1550031(25).
296. *On the uniqueness of solutions to continuity equations* (with Vladimir I. Bogachev, Giuseppe Da Prato, and Stanislav V. Shaposhnikov), *J. Diff. Equations* **259** (2015), no. 8, 3854–3873.
297. *The stochastic porous media equations in R^d* (with Viorel Barbu and Francesco Russo), *J. Math. Pures Appl.* **103** (2015), no. 4, 1024–1052.
298. *Uniqueness problems for Degenerate Fokker–Planck–Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *J. Math. Sci.* **207** (2015), no. 2, 147–166.
299. *Strong uniqueness for stochastic evolution equations with unbounded measurable drift term* (with Giuseppe Da Prato, Franco Flandoli, and Enrico Priola), *J. Theoret. Prob.* **28** (2015), no. 4, 1571–1600.
300. *An operatorial approach to stochastic partial differential equations driven by linear multiplicative noise* (with Viorel Barbu), *JEMS* **17** (2015), no. 7, 1789–1815.
301. *Existence and uniqueness of solutions to stochastic functional differential equations in infinite dimensions* (with Rongchan Zhu and Xiangchan Zhu), *Nonlinear Anal. Theory Methods Appl.* **125** (2015), 358–397.
302. *On the existence of the dual right Markov process and applications* (with Lucian Beznea), *Pot. Anal.* **42** (2015), no. 3, 617–627.

303. *Singular-degenerate multivalued stochastic fast diffusion equations* (with Benjamin Gess), *SIAM J. Math. Anal.* **47** (2015), no. 5, 4058–4090.
304. *Stochastic Porous Media Equations* (with Viorel Barbu and Giuseppe Da Prato), monograph, *Lecture Notes in Mathematics* 2163, Springer, 2016, pp. ix+202.
305. *Strong uniqueness for SDEs in Hilbert spaces with nonregular drift* (with Giuseppe Da Prato, Franco Flandoli, and Alexander Veretennikov), *Ann. Prob.* **44** (2016), no. 3, 1985–2023.
306. *Non-symmetric distorted Brownian motion: strong solutions, strong Feller property and non-explosion results* (with Jiyong Shin and Gerald Trutnau), *DCDS-B* **21** (2016), no. 9, 3219–3237.
307. *Estimates of distances between transition probabilities of diffusions* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Doklady Math. Russian Acad. Sci.* (2016), no. 93, 135–139.
308. *On the maximal inequalities of Burkholder, Davis and Gundy* (with Carlo Marinelli), *Expo. Math.* **34** (2016), no. 1, 1–26.
309. *Time inhomogeneous generalized Mehler semigroups and skew convolution equations* (with Shun-Xiang Ouyang), *Forum Math.* **28** (2016), no. 2, 339–376.
310. *Distances between transition probabilities of diffusions and applications to nonlinear Fokker–Planck–Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *J. Funct. Anal.* **271** (2016), no. 5, 1262–1300.
311. *Stochastic nonlinear Schrödinger equations* (with Viorel Barbu and Deng Zhang), *Non-linear Anal. Theory Methods Appl.* **136** (2016), 168–194.
312. *Backward uniqueness of stochastic parabolic like equations driven by Gaussian multiplicative noise* (with Viorel Barbu), *Stoch. Proc. Appl.* **126** (2016), no. 7, 2163–2179.
313. *Doubly probabilistic representation for the stochastic porous media type equation* (with Viorel Barbu and Francesco Russo), *Ann. Inst. Henri Poincaré* **53** (2017), no. 4, 2043–2073.
314. *Ergodicity for the stochastic quantization problems on the 2D-torus* (with Rongchan Zhu and Xiangchan Zhu), *Commun. Math. Phys.* **352** (2017), no. 3, 1061–1090.
315. *Closability of quadratic forms associated to invariant probability measures of SPDEs* (with Feng-Yu Wang), *IDAQP* **20** (2017), no. 4, 1750023, 15pp.
316. *Global solutions to random 3D vorticity equations for small initial data* (with Viorel Barbu), *J. Diff. Equations* **263** (2017), no. 9, 5395–5411.
317. *Stochastic nonlinear Schrödinger equations: no blow-up in the non-conservative case* (with Viorel Barbu and Deng Zhang), *J. Diff. Equations* **263** (2017), no. 11, 7919–7940.
318. *Uniqueness for a class of stochastic Fokker–Planck and porous media equations* (with Francesco Russo), *J. Evol. Equ.* **17** (2017), no. 3, 1049–1062.

319. *Restricted Markov uniqueness for the stochastic quantization of $p(\phi)_2$ and its applications* (with Rongchan Zhu and Xiangchan Zhu), *J. Funct. Anal.* **272** (2017), no. 10, 4263–4303.
320. *The stochastic logarithmic Schrödinger equation* (with Viorel Barbu and Deng Zhang), *J. Math. Pures Appl.* **107** (2017), no. 2, 123–149.
321. *A splitting algorithm for stochastic partial differential equations driven by linear multiplicative noise* (with Viorel Barbu), *Stoch. PDE: Anal. Comp.* **5** (2017), no. 4, 457–471.
322. *Stochastic variational inequalities and regularity for degenerate stochastic partial differential equations* (with Benjamin Gess), *Trans. Amer. Math. Soc.* **369** (2017), no. 5, 3017–3045.
323. *Optimal bilinear control of nonlinear stochastic Schrödinger equations driven by linear multiplicative noise* (with Viorel Barbu and Deng Zhang), *Ann. Prob.* **46** (2018), no. 4, 1957–1999.
324. *Stochastic Heat Equations with Values in a Riemannian Manifold* (with Bo Wu, Rongchan Zhu, and Xiangchan Zhu), *Atti Accad. Naz. Lincei Rend. Lincei Mat. Appl.* **29** (2018), no. 1, 205–213.
325. *Convergence to stationary measures in nonlinear Fokker-Planck-Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Doklady Math. Russian Acad. Sci.* (2018), no. 98, 452–457.
326. *Total variation flow perturbed by gradient linear multiplicative noise* (with I. Munteanu), *IDAQP* **21** (2018), no. 1, 1850003, 28pp.
327. *Nonlinear Fokker-Planck equations driven by Gaussian linear multiplicative noise* (with Viorel Barbu), *J. Diff. Equations* **265** (2018), no. 10, 4993–5030.
328. *The Poisson equation and estimates for distances between stationary distributions of diffusions* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *J. Math. Sci.* **232** (2018), no. 3, 254–282.
329. *Heat kernel estimates for an operator with a singular drift and isoperimetric inequalities* (with A. Grigoryan and Shun-Xiang Ouyang), *J. Reine Angew. Math.* **736** (2018), 1–31.
330. *Quasi-Linear (Stochastic) Partial Differential Equations with Time-Fractional Derivatives* (with Wei Liu and Jose-Luis da Silva), *SIAM J. Math. Anal.* **50** (2018), no. 3, 2588–2607.
331. *Probabilistic representation for solutions to nonlinear Fokker-Planck equations* (with Viorel Barbu), *SIAM J. Math. Anal.* **50** (2018), no. 4, 4246–4260.
332. *Variational solutions to nonlinear stochastic differential equations in Hilbert spaces* (with Viorel Barbu), *Stoch. PDE: Anal. Comp.* **6** (2018), no. 3, 500–524.
333. *Irreducible recurrence, ergodicity, and extremality of invariant measures for resolvents* (with Lucian Beznea and Iulian Cîmpean), *Stoch. Proc. Appl.* **128** (2018), no. 4, 1405–1437.

334. *Stochastic porous media equation on general measure spaces with increasing Lipschitz nonlinearities* (with Weina Wu and Yingchao Xie), *Stoch. Proc. Appl.* **128** (2018), no. 6, 2131–2151.
335. *Kolmogorov operators and SPDEs* (with Viorel Barbu, Vladimir I. Bogachev, and Stanislav V. Shaposhnikov), *Spectral Structures and Topological Methods in Mathematics* (Michael Baake, Friedrich Götze, and Werner Hoffmann, eds.), EMS Series of Congress Reports, European Mathematical Society (EMS), Zürich, 2019, pp. 29–53.
336. *A new approach to the existence of invariant measures for Markovian semigroups* (with Lucian Beznea and Iulian Cîmpean), *Ann. Inst. Henri Poincaré* **55** (2019), no. 2, 977–1000.
337. *Scattering for Stochastic Nonlinear Schrödinger Equations* (with Sebastian Herr and Deng Zhang), *Commun. Math. Phys.* **368** (2019), no. 2, 843–884.
338. *Nonlinear Fokker–Planck equations for Probability Measures on Path Space and Path-Distribution Dependent SDEs* (with Xing Huang and Feng-Yu Wang), *DCDS-A* **39** (2019), no. 6, 3017–3035.
339. *A remark on global solutions to random 3D vorticity equations for small initial data* (with Rongchan Zhu and Xiangchan Zhu), *DCDS-B* **24** (2019), no. 8, 4021–4030.
340. *On the superposition principle for Fokker-Planck-Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Doklady Math. Russian Acad. Sci.* (2019), no. 100, 363–366.
341. *Global solutions for random vorticity equations perturbed by gradient dependent noise, in two and three dimensions* (with I. Munteanu), *J. Evol. Equ.* (2019), 22, DOI 10.1007/s00028-019-00551-3.
342. *Convergence in variation of solutions of nonlinear Fokker–Planck–Kolmogorov equations to stationary measures* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *J. Funct. Anal.* **276** (2019), no. 12, 3681–3713.
343. *Absolutely continuous solutions for continuity equations in Hilbert spaces* (with Giuseppe Da Prato and Franco Flandoli), *J. Math. Pures Appl.* **128** (2019), no. 9, 42–86.
344. *On convergence to stationary distributions for solutions of nonlinear Fokker–Planck–Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *J. Math. Sci.* **242** (2019), no. 1, 69–84.
345. *A mild Itô-formula for stochastic partial differential equations* (with Giuseppe Da Prato and Arnulf Jentzen), *Trans. Amer. Math. Soc.* **372** (2019), no. 6, 3755–3807.
346. *A natural extension of Markov processes and applications to singular SDEs* (with Lucian Beznea and Iulian Cîmpean), *Ann. Inst. Henri Poincaré* **56** (2020), no. 4, 2480–2506.
347. *From nonlinear Fokker-Planck equations to solutions of distribution dependent SDE* (with Viorel Barbu), *Ann. Prob.* **48** (2020), no. 4, 1902–1920.

348. *Averaging principle for slow-fast stochastic differential equations with time dependent locally Lipschitz coefficients* (with Wei Liu, Xiaobin Sun, and Yingchao Xie), *J. Diff. Equations* **268** (2020), no. 6, 2910–2948.
349. *Superposition principle for non-local Fokker-Planck-Kolmogorov operators* (with Longjie Xie and Xicheng Zhang), *Prob. Th. Rel. Fields* **178** (2020), no. 3-4, 699–733.
350. *Ornstein-Uhlenbeck processes with singular drifts: integral estimates and Girsanov densities* (with Maria Gordina and Alexander Teplaev), *Prob. Th. Rel. Fields* **178** (2020), no. 3-4, 861–891.
351. *Optimal control of nonlinear stochastic differential equations on Hilbert spaces* (with Viorel Barbu and Deng Zhang), *SIAM J. Cont. Opt.* **58** (2020), no. 4, 2383–2410.
352. *Stochastic Heat Equations with Values in a Manifold via Dirichlet Forms* (with Bo Wu, Rongchan Zhu, and Xiangchan Zhu), *SIAM J. Math. Anal.* **52** (2020), no. 3, 50.
353. *Conservative stochastic 2-dimensional Cahn-Hilliard equation* (with Huanyu Yang and Rongchan Zhu), *Ann. Appl. Prob.* **31** (2021), no. 3, 1336–1375.
354. *Strong convergence order for slow-fast McKean-Vlasov stochastic differential equations* (with Xiaobin Sun and Yingchao Xie), *Ann. Inst. Henri Poincaré* **57** (2021), no. 1, 547–576.
355. *Diffusion approximation for fully coupled stochastic differential equations* (with Longjie Xie), *Ann. Prob.* **49** (2021), no. 3, 1205–1236.
356. *Well-Posedness of Distribution Dependent SDES with Singular Drifts* (with Xicheng Zhang), *Bernoulli* **27** (2021), no. 2, 1131–1158.
357. *Averaging principle and normal deviations for multiscale stochastic systems* (with Longjie Xie), *Commun. Math. Phys.* **383** (2021), no. 3, 1889–1937.
358. *A Markov process for an infinite interacting particle system in the continuum* (with Yuri Kozitsky), *Electron. J. Probab.* **26** (2021), 1–53.
359. *The structure of entrance laws for time-inhomogeneous Ornstein-Uhlenbeck processes with Levy noise in Hilbert spaces* (with Narges Rezvani Majid), *IDAQP* **24** (2021), no. 2, 23 pp., Paper No. 2150011.
360. *Euler scheme for density dependent stochastic differential equations* (with Zimo Hao and Xicheng Zhang), *J. Diff. Equations* **274** (2021), 996–1014.
361. *Collective stochastic dynamics of the Cucker-Smale ensemble under uncertain communications* (with Seung-Yeal Ha and Jinwook Jung), *J. Diff. Equations* **284** (2021), 39–82.
362. *On the Ambrosio-Figalli-Trevisan superposition principle for probability solutions to Fokker-Planck-Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *J. Dyn. Diff. Equations* **33** (2021), no. 2, 715–739, DOI 10.1007/s10884-020-09828-5.

363. *Solutions for nonlinear Fokker–Planck equations with measures as initial data and McKean–Vlasov equations* (with Viorel Barbu), *J. Funct. Anal.* **280** (2021), no. 7, 108926, 1–35.
364. *Strong dissipativity of generalized time–fractional derivatives and quasi–linear (stochastic) partial differential equations* (with Wei Liu and Jose-Luis da Silva), *J. Funct. Anal.* **281** (2021), no. 8, 34 pp., Paper No. 109135.
365. *Schauder theorems for a class of (pseudo–)differential operators on finite and infinite dimensional state spaces* (with Alessandra Lunardi), *J. London Math. Soc.* **104** (2021), no. 2, 492–540.
366. *On a class of infinite–dimensional singular stochastic control problems* (with Salvatore Federico, Giorgio Ferrari, and Frank Riedel), *SIAM J. Cont. Opt.* **59** (2021), no. 2, 1680–1704.
367. *Upper envelopes of families of Feller semigroups and viscosity solutions to a class of nonlinear Cauchy problems* (with Max Nendel), *SIAM J. Cont. Opt.* **59** (2021), no. 6, 4400–4428.
368. *Convergent numerical approximation of the stochastic total variation flow* (with L’ubomír Bañas and Andre Wilke), *Stoch. PDE: Anal. Comp.* **9** (2021), no. 2, 437–471.
369. *Continuity equation in $LlogL$ for the 2D Euler equations under the enstrophy measure* (with Giuseppe Da Prato and Franco Flandoli), *Stoch. PDE: Anal. Comp.* **9** (2021), no. 2, 491–509, DOI 0.1007/s40072-020-00173-8.
370. *Uniqueness for nonlinear Fokker–Planck equations and weak uniqueness for McKean–Vlasov SDEs* (with Viorel Barbu), *Stoch. PDE: Anal. Comp.* **9** (2021), no. 3, 702–713.
371. *Markov uniqueness and Fokker–Planck–Kolmogorov equations* (with Sergio Albeverio and Vladimir I. Bogachev), *Festschrift Masatoshi Fukushima*, Springer Proceedings in Mathematics and Statistics, 2022, In Honor of Masatoshi Fukushima’s Beiju.
372. *Applications of Zvonkin’s transform to stationary Kolmogorov equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Dokl. Math. (Dokl. Russian Acad. Sci.)* **106** (2022), no. 2, 318–321.
373. *The invariance principle for nonlinear Fokker–Planck equations* (with Viorel Barbu), *J. Diff. Equations* **315** (2022), 200–221.
374. *Linearization of nonlinear Fokker–Planck equations and applications* (with Panpan Ren and Feng-Yu Wang), *J. Diff. Equations* **322** (2022), 1–37.
375. *Strong uniqueness for Dirichlet operators related to stochastic quantization under exponential/trigonometric interactions on the two–dimensional torus* (with Sergio Albeverio, Hiroshi Kawabi, and Stefan-Radu Mihalache), *Ann. Scuola Norm. Sup. Pisa Cl. Sci.* **XXIV** (2023), no. 5, 33–69.
376. *Strong averaging principle for slow–fast stochastic partial differential equations with locally monotone coefficients* (with Wei Liu, Xiaobin Sun, and Yingchao Xie), *Appl. Math. Optim.* **87** (2023), no. 3, 39.

377. *SDEs with critical time dependent drifts: weak solutions* (with Guohuan Zhao), *Bernoulli* **29** (2023), no. 1, 757–784.
378. *Zvonkin’s transform and the regularity of solutions to double divergence form elliptic equations* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), *Comm. PDE* **48** (2023), no. 1, 119–149.
379. *A Markov process for a continuum infinite particle system with attraction* (with Yuri Kozitsky), *Electron. J. Probab.* **28** (2023), Paper No. 67, 59.
380. *The evolution to equilibrium of solutions to nonlinear Fokker–Planck equation* (with Viorel Barbu), *Indiana Univ. Math. J.* **72** (2023), no. 1, 89–131.
381. *Averaging principle for stochastic complex Ginzburg–Landau equations* (with Mengyu Cheng and Zhenxin Liu), *J. Diff. Equations* **368** (2023), 58–104.
382. *Uniqueness for nonlinear Fokker–Planck equations and for McKean–Vlasov SDEs: The degenerate case* (with Viorel Barbu), *J. Funct. Anal.* **285** (2023), no. 4, Paper No. 109980, 37.
383. *Asymptotic behavior of multiscale stochastic partial differential equations with Hölder coefficients* (with Longjie Xie and Li Yang), *J. Funct. Anal.* **285** (2023), no. 9, Paper No. 110103, 50.
384. *Multi solitary waves to stochastic nonlinear Schrödinger equations* (with Yiming Su and Deng Zhang), *Prob. Th. Rel. Fields* **186** (2023), no. 3-4, 813–876.
385. *Nonlinear Fokker–Planck equations with time–dependent coefficients* (with Viorel Barbu), *SIAM J. Math. Anal.* **55** (2023), no. 1, 1–18.
386. *Averaging principle and normal deviations for multi–scale stochastic hyperbolic–parabolic equations* (with Longjie Xie and Li Yang), *Stoch. PDE: Anal. Comp.* **11** (2023), no. 3, 869–907.
387. *Strong and weak convergence for the averaging principle of DDSDE with singular drift* (with Mengyu Cheng and Zimo Hao), *Bernoulli* **30** (2024), no. 2, 1586–1610.
388. *Strong convergence of propagation of chaos for McKean–Vlasov SDEs with singular interactions* (with Zimo Hao and Xicheng Zhang), *SIAM J. Math. Anal.* **56** (2024), no. 2, 2661–2713.
389. *Multi-bubble Bourgain–Wang solutions to nonlinear Schrödinger equations* (with Yiming Su and Deng Zhang), *Trans. Amer. Math. Soc.* **377** (2024), no. 1, 517–588.
390. *Recent progress on multi–bubble blow–ups and multi–solitons to (stochastic) focusing nonlinear Schrödinger equations* (with Viorel Barbu and Deng Zhang), *BiBoS–Preprint*, to appear in *Vietnam Journal of Mathematics*, 24 pp., 2023.
391. *Path continuity of Markov processes and locality of Kolmogorov operators* (with Lucian Beznea and Iulian Cîmpean), *BiBoS–Preprint*, to appear in *Stoch. PDE: Anal. Comp.*, 38 pp., 2023.

392. *Strong Feller semigroups and Markov processes: A counter example* (with Lucian Beznea and Iulian Cîmpean), BiBoS-Preprint, to appear in Stoch. PDE: Anal. Comp., 10 pp., 2023.
393. *A unified approach to gradient type formulas for BSDEs and some applications* (with Xiliang Fan and Shao-Qin Zhang), BiBoS-Preprint, to appear in Ann. Inst. Henri Poincaré, 49 pp., 2023.
394. *Nonlinear Fokker-Planck equations with fractional Laplacian and McKean-Vlasov SDEs with Lévy-Noise* (with Viorel Barbu), BiBoS-Preprint, to appear in Prob. Th. Rel. Fields, 32 pp., 2024.
395. *On the restriction of a right process outside a negligible set* (with Liping Li), BiBoS-Preprint, to appear in Pot. Anal., 20 pp., 2024.
396. *Well-posedness of stochastic partial differential equations with fully local monotone coefficients* (with Shijie Shang and Tu-Sheng Zhang), BiBoS-Preprint, to appear in Math. Ann., 45 pp., 2024.
397. *Stochastic Generalized Porous Media Equations over σ -finite Measure Spaces with Non-continuous Diffusivity Function* (with Weina Wu and Yingchao Xie), BiBoS-Preprint, to appear in Pot. Anal., 38 pp., 2024.
398. *Non-autonomous mild solutions for SPDE with Levy noise in weighted L^p -spaces* (with S. Michel and Tatiana Pasurek), BiBoS-Preprint 13-01-433, publication in preparation, 39 pp., 2012.
399. *Strong and weak convergence in the averaging principle for SDEs with Hölder coefficients* (with Xiaobin Sun and Longjie Xie), BiBoS-Preprint 19-07-557, publication in preparation, 30 pp., 2019.
400. *SDEs with singular drifts and multiplicative noise on general space-time domains* (with Chengcheng Ling and Xiangchan Zhu), BiBoS-Preprint 20-01-565.pdf, publication in preparation, 40 pp., 2019.
401. *SDEs with critical time dependent drifts: strong solutions* (with Guohuan Zhao), BiBoS-Preprint 21-03-582, publication in preparation, 34 pp., 2021.
402. *Operator semigroups in the mixed topology and the infinitesimal description of Markov processes* (with Benjamin Goldys and Max Nendel), BiBoS-Preprint 22-04-597, publication in preparation, 51 pp., 2022.
403. *Convergent numerical approximation of the stochastic total variation flow with linear multiplicative noise: the higher dimensional case* (with L'ubomír Bañas and Andre Wilke), BiBoS-Preprint 22-11-607, publication in preparation, 16 pp., 2022.
404. *The ergodicity of nonlinear Fokker-Planck flows in $L^1(\mathbb{R}^d)$* (with Viorel Barbu), BiBoS-Preprint 22-10-604, publication in preparation, 15 pp., 2023.
405. *On nonlinear Markov processes in the sense of McKean* (with Marco Rehmeier), BiBoS-Preprint 23-01-609, publication in preparation, 20 pp., 2023.

406. *The three dimensional stochastic Zakharov system* (with Sebastian Herr, Martin Spitz, and Deng Zhang), BiBoS-Preprint 23-01-610, publication in preparation, 45 pp., 2023.
407. *Second order fractional mean-field SDEs with singular kernels and measure initial data* (with Zimo Hao and Xicheng Zhang), BiBoS-Preprint 23-03-611, publication in preparation, 67 pp., 2023.
408. *Kolmogorov problems on equations for stationary and transition probabilities of diffusion processes* (with Vladimir I. Bogachev and Stanislav V. Shaposhnikov), BiBoS-Preprint 23-03-612, publication in preparation, 25 pp., 2023.
409. *Nonlinear Fokker-Planck-Kolmogorov equations as gradient flows on the space of probability measures* (with Marco Rehmeier), BiBoS-Preprint 23-06-615, publication in preparation, 20 pp., 2023.
410. *Nonlocal, nonlinear Fokker-Planck equations and nonlinear martingale problems* (with Viorel Barbu and Jose-Luis da Silva), BiBoS-Preprint 23-08-628, publication in preparation, 32 pp., 2023.
411. *Averaging principle and normal deviation for multi-scale SDEs with polynomial nonlinearity* (with Mengyu Cheng and Zhenxin Liu), BiBoS-Preprint 23-08-631, publication in preparation, 39 pp., 2023.
412. *Uniqueness of distributional solutions to the 2D vorticity Navier-Stokes equation and its associated nonlinear Markov process* (with Viorel Barbu and Deng Zhang), BiBoS-Preprint 23-09-632, publication in preparation, 29 pp., 2023.
413. *Nonlinear Dirichlet forms associated with quasiregular mappings* (with Camelia Beznea and Lucian and Beznea), BiBoS-Preprint 23-11-633, publication in preparation, 19 pp., 2023.
414. *Cameron-Martin type theorem for a class of non-Gaussian measures* (with Mohamed and Erraoui), BiBoS-Preprint 24-01-635, publication in preparation, 36 pp., 2023.
415. *SVI solutions to stochastic nonlinear diffusion equations on general measure spaces* (with Benjamin Gess and Weina Wu), BiBoS-Preprint 24-02-636, publication in preparation, 26 pp., 2024.