List of Publications
Michael Röckner
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38. Tightness of general $C_{1,p}$-capacities on Banach space (with Byron Schmuland), J. Funct. Anal. 108 (1992), 1–12.


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.

56. A remark on quasi–Radon measures (with Sergio Albeverio and Zhi-Ming Ma), Inter-
national 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.

58. A remark on coercive forms and associated semigroups (with Sergio Albeverio, Ru-
Zhong Fan, and Wilhelm Stannat), Partial differential operators and mathematical
pp. 1–8.

59. An analytic approach to Fleming–Viot processes with interactive selection (with Ludger

60. Quasi–regular Dirichlet forms: examples and counterexamples (with Byron Schmu-

61. Markov processes associated with positivity preserving forms (with Zhi-Ming Ma), Can.

62. Dirichlet operators via stochastic analysis (with Sergio Albeverio and Yuri G. Kon-

63. Uniqueness of the stochastic dynamics for continuous spin systems on a lattice (with

64. Regularity of invariant measures on finite and infinite dimensional spaces and applica-

65. Mehler formula and capacities for infinite dimensional Ornstein–Uhlenbeck processes
274.

66. Markov processes associated with semi–Dirichlet forms (with Zhi-Ming Ma and Ludger

67. Characterization of (non–symmetric) Dirichlet forms associated with Hunt processes

68. Differential geometry of Poisson spaces (with Sergio Albeverio and Yuri G. Kon-

69. Canonical Dirichlet operator and distorted Brownian motion on Poisson spaces (with
1179–1184.

70. Regularity of invariant measures: the case of non–constant diffusion part (with


106. Uniqueness of invariant measures and maximal 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.


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.


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


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 \textbf{12} (2009), 353–358.


284. On maximal inequalities for purely discontinuous martingales in infinite dimensions (with Carlo Marinelli), Lecture Notes in Mathematik: Seminaire de Probabilites XLVI 2123 (2014), 293–315.


289. Stochastic Partial Differential Equations: An Introduction (with Wei Liu), Universi-
text, Springer, Cham, 2015, pp. vi+266.

290. Sub- and supercritical stochastic quasi–geostrophic equations (with Rongchan Zhu and

291. An analytic approach to infinite-dimensional continuity and Fokker-Planck-Kolmogorov
equations (with Vladimir I. Bogachev, Giuseppe Da Prato, and Stanislav V. Shaposh-

292. BV functions in a Gelfand triple for differentiable measures and its applications (with

293. A Milstein scheme for SPDE’s (with Arnulf Jentzen), Found. Comput. Math. 15

294. About the infinite dimensional skew and obliquely reflected Ornstein–Ulenbeck process
(with Gerald Trutnau), IDAQP 18 (2015), no. 4, 1550031(1)–1550031(25).

295. 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.

296. The stochastic porous media equations in $\mathbb{R}^d$ (with Viorel Barbu and Francesco Russo),

147–166.

298. Strong uniqueness for stochastic evolution equations with unbounded measurable drift
term (with Giuseppe Da Prato, Franco Flandoli, and Enrico Priola), J. Theoret. Prob.

299. An operatorial approach to stochastic partial differential equations driven by linear

300. Existence and uniqueness of solutions to stochastic functional differential equations in
infinite dimensions (with Rongchan Zhu and Xiangchan Zhu), Nonlinear Anal. Theory

301. On the existence of the dual right Markov process and applications (with Lucian

302. Singular-degenerate multivalued stochastic fast diffusion equations (with Benjamin

303. Stochastic Porous Media Equations (with Viorel Barbu and Giuseppe Da Prato), mono-

304. 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,

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331. **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.


Upper envelopes of Feller semigroups and viscosity solutions to a class of nonlinear Cauchy problems (with Max Nendel), BiBoS–Preprint 19–06–553, publication in preparation, 27 pp., 2019.


Schauder theorems for a class of (pseudo–)differential operators on finite and infinite dimensional state spaces (with Alessandra Lunardi), BiBoS–Preprint 19–07–556, publication in preparation, 47 pp., 2019.