

# Rainer Buckdahn

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

1,626  
citations

18  
h-index

40  
g-index

51  
ext. papers

1,881  
ext. citations

1.4  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
50	Representation of limit values for nonexpansive stochastic differential games. <i>Journal of Differential Equations</i> , <b>2021</b> , 276, 187-227	2.1	2
49	Partial derivative with respect to the measure and its application to general controlled mean-field systems. <i>Stochastic Processes and Their Applications</i> , <b>2021</b> , 134, 265-307	1.1	0
48	Representation Formulas for Limit Values of Long Run Stochastic Optimal Controls. <i>SIAM Journal on Control and Optimization</i> , <b>2020</b> , 58, 1846-1873	1.9	2
47	Viability of an open set for stochastic control systems. <i>Stochastic Processes and Their Applications</i> , <b>2019</b> , 129, 4108-4118	1.1	1
46	Mean-field stochastic differential equations and associated PDEs. <i>Annals of Probability</i> , <b>2017</b> , 45,	1.9	71
45	Mean-Field SDE Driven by a Fractional Brownian Motion and Related Stochastic Control Problem. <i>SIAM Journal on Control and Optimization</i> , <b>2017</b> , 55, 1500-1533	1.9	4
44	A mean-field stochastic control problem with partial observations. <i>Annals of Applied Probability</i> , <b>2017</b> , 27,	2	12
43	A Stochastic Maximum Principle for General Mean-Field Systems. <i>Applied Mathematics and Optimization</i> , <b>2016</b> , 74, 507-534	1.5	21
42	Differential games with asymmetric information and without Isaacs condition. <i>International Journal of Game Theory</i> , <b>2016</b> , 45, 795-816	0.5	8
41	Pathwise Taylor expansions for random fields on multiple dimensional paths. <i>Stochastic Processes and Their Applications</i> , <b>2015</b> , 125, 2820-2855	1.1	11
40	On representation formulas for long run averaging optimal control problem. <i>Journal of Differential Equations</i> , <b>2015</b> , 259, 5554-5581	2.1	13
39	Stochastic variational inequalities on non-convex domains. <i>Journal of Differential Equations</i> , <b>2015</b> , 259, 7332-7374	2.1	4
38	Nonlinear Stochastic Differential Games Involving a Major Player and a Large Number of Collectively Acting Minor Agents. <i>SIAM Journal on Control and Optimization</i> , <b>2014</b> , 52, 451-492	1.9	12
37	Peng's maximum principle for a stochastic control problem driven by a fractional and a standard Brownian motion. <i>Science China Mathematics</i> , <b>2014</b> , 57, 2025-2042	0.8	3
36	Value in mixed strategies for zero-sum stochastic differential games without Isaacs condition. <i>Annals of Probability</i> , <b>2014</b> , 42,	1.9	14
35	Existence of Asymptotic Values for Nonexpansive Stochastic Control Systems. <i>Applied Mathematics and Optimization</i> , <b>2014</b> , 70, 1-28	1.5	10
34	Value function of differential games without Isaacs conditions. An approach with nonanticipative mixed strategies. <i>International Journal of Game Theory</i> , <b>2013</b> , 42, 989-1020	0.5	14

33	Regularity Properties for General HJB Equations: A Backward Stochastic Differential Equation Method. <i>SIAM Journal on Control and Optimization</i> , <b>2012</b> , 50, 1466-1501	1.9	9
32	Stochastic representation for solutions of Isaacs-type integral-partial differential equations. <i>Stochastic Processes and Their Applications</i> , <b>2011</b> , 121, 2715-2750	1.1	18
31	Stochastic differential games with reflection and related obstacle problems for Isaacs equations. <i>Acta Mathematicae Applicatae Sinica</i> , <b>2011</b> , 27, 647-678	0.3	6
30	Stochastic Optimal Control and Linear Programming Approach. <i>Applied Mathematics and Optimization</i> , <b>2011</b> , 63, 257-276	1.5	23
29	A General Stochastic Maximum Principle for SDEs of Mean-field Type. <i>Applied Mathematics and Optimization</i> , <b>2011</b> , 64, 197-216	1.5	157
28	Some Recent Aspects of Differential Game Theory. <i>Dynamic Games and Applications</i> , <b>2011</b> , 1, 74-114	1.1	62
27	Pathwise Taylor expansions for Itô-random fields. <i>Mathematical Control and Related Fields</i> , <b>2011</b> , 1, 437-468	0.5	3
26	Existence of an optimal control for stochastic control systems with nonlinear cost functional. <i>Stochastics</i> , <b>2010</b> , 82, 241-256	0.6	15
25	Probabilistic interpretation of a coupled system of Hamilton-Jacobi-Bellman equations. <i>Journal of Evolution Equations</i> , <b>2010</b> , 10, 529-549	1.2	4
24	Lipschitz continuity and semiconcavity properties of the value function of a stochastic control problem. <i>Nonlinear Differential Equations and Applications</i> , <b>2010</b> , 17, 715-728	0.8	6
23	Inf-convolution of G-expectations. <i>Science China Mathematics</i> , <b>2010</b> , 53, 1957-1970	0.8	1
22	Another proof for the equivalence between invariance of closed sets with respect to stochastic and deterministic systems??The authors gratefully acknowledge the support from the RTN network HPRN-CT-2002-00281 (European Union) and from the FWF-grant Y 328 (Austrian Science Funds).. <i>Bulletin Des Sciences Mathematiques</i> , <b>2010</b> , 134, 207-214	0.7	6
21	Mean-field backward stochastic differential equations: A limit approach. <i>Annals of Probability</i> , <b>2009</b> , 37,	1.9	145
20	Mean-field backward stochastic differential equations and related partial differential equations. <i>Stochastic Processes and Their Applications</i> , <b>2009</b> , 119, 3133-3154	1.1	172
19	Probabilistic interpretation for systems of Isaacs equations with two reflecting barriers. <i>Nonlinear Differential Equations and Applications</i> , <b>2009</b> , 16, 381-420	0.8	14
18	On limiting values of stochastic differential equations with small noise intensity tending to zero. <i>Bulletin Des Sciences Mathematiques</i> , <b>2009</b> , 133, 229-237	0.7	21
17	Stochastic Differential Games and Viscosity Solutions of Hamilton-Jacobi-Bellman-Isaacs Equations. <i>SIAM Journal on Control and Optimization</i> , <b>2008</b> , 47, 444-475	1.9	147
16	Controlled Stochastic Differential Equations under Constraints in Infinite Dimensional Spaces. <i>SIAM Journal on Control and Optimization</i> , <b>2008</b> , 47, 218-250	1.9	2

15	Pathwise Stochastic Control Problems and Stochastic HJB Equations. <i>SIAM Journal on Control and Optimization</i> , <b>2007</b> , 45, 2224-2256	1.9	24
14	A Stochastic Tikhonov Theorem in Infinite Dimensions. <i>Applied Mathematics and Optimization</i> , <b>2006</b> , 53, 221-258	1.5	2
13	Limit Theorem for Controlled Backward SDEs and Homogenization of Hamilton-Jacobi-Bellman Equations. <i>Applied Mathematics and Optimization</i> , <b>2005</b> , 51, 1-33	1.5	17
12	Stochastic control with exit time and constraints, application to small time attainability of sets. <i>Applied Mathematics and Optimization</i> , <b>2004</b> , 49, 99-112	1.5	2
11	Stochastic Control with Exit Time and Constraints, Application to Small Time Attainability of Sets. <i>Applied Mathematics and Optimization</i> , <b>2004</b> , 49, 99-112	1.5	9
10	Nash Equilibrium Payoffs for Nonzero-Sum Stochastic Differential Games. <i>SIAM Journal on Control and Optimization</i> , <b>2004</b> , 43, 624-642	1.9	59
9	On the existence of stochastic optimal control of distributed state system. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2003</b> , 52, 1153-1184	1.3	13
8	Pathwise stochastic Taylor expansions and stochastic viscosity solutions for fully nonlinear stochastic PDEs. <i>Annals of Probability</i> , <b>2002</b> , 30, 1131	1.9	20
7	Stochastic viscosity solutions for nonlinear stochastic partial differential equations. Part II. <i>Stochastic Processes and Their Applications</i> , <b>2001</b> , 93, 205-228	1.1	40
6	Stochastic viscosity solutions for nonlinear stochastic partial differential equations. Part I. <i>Stochastic Processes and Their Applications</i> , <b>2001</b> , 93, 181-204	1.1	55
5	A Representation Formula for the Mean Curvature Motion. <i>SIAM Journal on Mathematical Analysis</i> , <b>2001</b> , 33, 827-846	1.7	31
4	Viability property for a backward stochastic differential equation and applications to partial differential equations. <i>Probability Theory and Related Fields</i> , <b>2000</b> , 116, 485-504	1.4	42
3	Existence of stochastic control under state constraints. <i>Comptes Rendus Mathematique</i> , <b>1998</b> , 327, 17-22		36
2	Pricing of American Contingent Claims with Jump Stock Price and Constrained Portfolios. <i>Mathematics of Operations Research</i> , <b>1998</b> , 23, 177-203	1.5	11
1	Backward stochastic differential equations and integral-partial differential equations. <i>Stochastic and Stochastics Reports</i> , <b>1997</b> , 60, 57-83		252