

Zhen Wu

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.

96 papers	1,298 citations	17 h-index	33 g-index
106 ext. papers	1,618 ext. citations	1.8 avg, IF	5.16 L-index

#	Paper	IF	Citations
96	A general maximum principle for partially observed mean-field stochastic system with random jumps in progressive structure. <i>Mathematical Control and Related Fields</i> , 2022 ,	1.5	
95	Social optima in mean field linear-quadratic-Gaussian models with control input constraint. <i>Systems and Control Letters</i> , 2022 , 162, 105174	2.4	
94	Relationship between backward and forward linear-quadratic mean-field-game with terminal constraint and optimal asset allocation for insurers and pension funds. <i>International Journal of Control</i> , 2021 , 94, 336-350	1.5	1
93	Mean-field linear-quadratic stochastic differential games. <i>Journal of Differential Equations</i> , 2021 , 296, 299-334	2.1	2
92	Backward stochastic differential equations with Markov chains and associated PDEs. <i>Journal of Differential Equations</i> , 2021 , 302, 854-894	2.1	
91	Linear-quadratic non-zero sum differential game for mean-field stochastic systems with asymmetric information. <i>Journal of Mathematical Analysis and Applications</i> , 2021 , 504, 125315	1.1	0
90	Robust Stackelberg Differential Game with Model Uncertainty. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
89	Stochastic Optimal Control Problem in Advertising Model with Delay. <i>Journal of Systems Science and Complexity</i> , 2020 , 33, 968-987	1	4
88	The Dynkin game with regime switching and applications to pricing game options. <i>Annals of Operations Research</i> , 2020 , 1	3.2	0
87	Linear-quadratic mean-field game for stochastic large-population systems with jump diffusion. <i>IET Control Theory and Applications</i> , 2020 , 14, 481-489	2.5	2
86	A kind of optimal investment problem under inflation and uncertain time horizon. <i>Applied Mathematics and Computation</i> , 2020 , 375, 125084	2.7	2
85	Necessary and sufficient conditions of near-optimality in a regime-switching diffusion model. <i>Optimal Control Applications and Methods</i> , 2020 , 41, 793-807	1.7	
84	Near-optimal control problems for forward-backward regime-switching systems. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2020 , 26, 94	1	
83	Quadratic reflected BSDEs and related obstacle problems for PDEs. <i>Communications in Statistics - Theory and Methods</i> , 2020 , 49, 567-589	0.5	2
82	Mean-variance portfolio selection with discontinuous prices and random horizon in an incomplete market. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	2
81	Linear-quadratic optimal control for time-delay stochastic system with recursive utility under full and partial information. <i>Automatica</i> , 2020 , 121, 109169	5.7	4
80	Backward Doubly Stochastic Differential Equations with Markov Chains and a Comparison Theorem. <i>Symmetry</i> , 2020 , 12, 1953	2.7	2

79	The Maximum Principle for Progressive Optimal Stochastic Control Problems with Random Jumps. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 2171-2187	1.9	2
78	Linear-Quadratic Mixed Stackelberg-Nash Stochastic Differential Game with Major-Minor Agents. <i>Applied Mathematics and Optimization</i> , 2020 , 84, 2445	1.5	2
77	A kind of stochastic recursive Zero-Sum differential game problem with double obstacles constraint. <i>Communications in Statistics - Theory and Methods</i> , 2020 , 49, 5356-5370	0.5	
76	Well-Posedness of Fully Coupled Linear Forward-Backward Stochastic Differential Equations. <i>Journal of Systems Science and Complexity</i> , 2019 , 32, 789-802	1	0
75	Linear-Quadratic Stackelberg Game for Mean-Field Backward Stochastic Differential System and Application. <i>Mathematical Problems in Engineering</i> , 2019 , 2019, 1-17	1.1	7
74	Probabilistic interpretation for Sobolev solutions of McKean-Vlasov partial differential equations. <i>Statistics and Probability Letters</i> , 2019 , 145, 273-283	0.6	1
73	Stabilization Control for Linear Continuous-Time Mean-Field Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3461-3468	5.9	17
72	An Indefinite Stochastic Linear Quadratic Optimal Control Problem with Delay and Related Forward-Backward Stochastic Differential Equations. <i>Journal of Optimization Theory and Applications</i> , 2018 , 179, 722-744	1.6	6
71	Well-posedness of a class of two-point boundary value problems associated with ordinary differential equations. <i>Advances in Difference Equations</i> , 2018 , 2018,	3.6	8
70	A sufficient stochastic maximum principle for a kind of recursive optimal control problem with obstacle constraint. <i>Systems and Control Letters</i> , 2018 , 114, 27-30	2.4	2
69	Necessary and sufficient conditions for near-optimality of stochastic delay systems. <i>International Journal of Control</i> , 2018 , 91, 1730-1744	1.5	4
68	Indefinite stochastic linear-quadratic optimal control problems with random jumps and related stochastic Riccati equations. <i>Science China Mathematics</i> , 2018 , 61, 563-576	0.8	13
67	Infinite horizon reflected backward stochastic differential equations with Markov chains. <i>Communications in Statistics - Theory and Methods</i> , 2018 , 47, 3360-3376	0.5	
66	Partially observed time-inconsistent stochastic linear-quadratic control with random jumps. <i>Optimal Control Applications and Methods</i> , 2018 , 39, 230-247	1.7	6
65	Linear quadratic mean-field-game of backward stochastic differential systems. <i>Mathematical Control and Related Fields</i> , 2018 , 8, 653-678	1.5	7
64	Optimal Control of Fully Coupled FBSDE with Partial Information. <i>SpringerBriefs in Mathematics</i> , 2018 , 41-58	0.6	0
63	Linear-quadratic partially observed forward-Backward stochastic differential games and its application in finance. <i>Applied Mathematics and Computation</i> , 2018 , 321, 577-592	2.7	5
62	Stochastic Maximum Principle for Forward-Backward Regime Switching Jump Diffusion Systems and Applications to Finance. <i>Chinese Annals of Mathematics Series B</i> , 2018 , 39, 773-790	0.4	1

61	An Introduction to Optimal Control of FBSDE with Incomplete Information. <i>SpringerBriefs in Mathematics</i> , 2018 ,	0.6	12
60	Optimal switching under a hybrid diffusion model and applications to stock trading. <i>Automatica</i> , 2018 , 94, 361-372	5.7	3
59	Stochastic maximum principle for optimal control problems of forward-backward delay systems involving impulse controls. <i>Journal of Systems Science and Complexity</i> , 2017 , 30, 280-306	1	6
58	Connection between MP and DPP for Stochastic Recursive Optimal Control Problems: Viscosity Solution Framework in the General Case. <i>SIAM Journal on Control and Optimization</i> , 2017 , 55, 3258-3294	1.9	11
57	Linear-quadratic optimal control problem of forward-backward stochastic system with delay 2017 ,		1
56	Maximum principle for optimal control of anticipated forwardBackward stochastic differential delayed systems with regime switching. <i>Optimal Control Applications and Methods</i> , 2016 , 37, 154-175	1.7	13
55	Continuous-time meanVariance portfolio selection with random horizon in an incomplete market. <i>Automatica</i> , 2016 , 69, 176-180	5.7	15
54	Backward Mean-Field Linear-Quadratic-Gaussian (LQG) Games: Full and Partial Information. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3784-3796	5.9	20
53	Connection between MP and DPP for stochastic recursive optimal control problems: Viscosity solution framework in local case 2016 ,		5
52	Backward-forward linear-quadratic mean-field games with major and minor agents. <i>Probability, Uncertainty and Quantitative Risk</i> , 2016 , 1,	2.2	5
51	Optimal Switching under a Regime-Switching Model with Two-Time-Scale Markov Chains. <i>Multiscale Modeling and Simulation</i> , 2015 , 13, 99-131	1.8	7
50	A Linear-Quadratic Optimal Control Problem of Forward-Backward Stochastic Differential Equations With Partial Information. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2904-2916	5.9	42
49	An indefinite stochastic linear quadratic optimal control problem for the FBSDE system with jumps 2015 ,		1
48	Backward stochastic differential equations with Markov switching driven by Brownian motion and Poisson random measure. <i>Stochastics</i> , 2015 , 87, 1-29	0.6	3
47	On well-posedness of forwardBackward SDEsA unified approach. <i>Annals of Applied Probability</i> , 2015 , 25,	2	58
46	Maximum Principle for Optimal Control Problems of Forward-Backward Regime-Switching Systems Involving Impulse Controls. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-13	1.1	3
45	Maximum principle for anticipated recursive stochastic optimal control problem with delay and Lévy processes. <i>Applied Mathematics</i> , 2014 , 29, 67-85	0.7	5
44	Sobolev Weak Solutions of the Hamilton--Jacobi--Bellman Equations. <i>SIAM Journal on Control and Optimization</i> , 2014 , 52, 1499-1526	1.9	5

43	Probabilistic interpretation for a system of quasilinear parabolic partial differential equation combined with algebra equations. <i>Stochastic Processes and Their Applications</i> , 2014 , 124, 3921-3947	1.1	17
42	Backward Stochastic H2/H ∞ Control: Infinite Horizon Case. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-8	1.1	
41	Convertible Bonds with Higher Loan Rate: Model, Valuation, and Optimal Strategy. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-9	0.7	1
40	Maximum principles for partially observed mean-field stochastic systems with application to financial engineering 2014 ,		6
39	Partially Observed Time-Inconsistency Recursive Optimization Problem and Application. <i>Journal of Optimization Theory and Applications</i> , 2014 , 161, 664-687	1.6	8
38	Pricing and hedging problem of foreign currency option with higher borrowing rate. <i>Journal of Systems Science and Complexity</i> , 2013 , 26, 407-418	1	
37	Maximum Principles for Forward-Backward Stochastic Control Systems with Correlated State and Observation Noises. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 491-524	1.9	50
36	A general maximum principle for optimal control of forwardBackward stochastic systems. <i>Automatica</i> , 2013 , 49, 1473-1480	5.7	60
35	BSDEs with regime switching: Weak convergence and applications. <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 407, 97-111	1.1	11
34	Maximum principle for optimal control problems of forwardBackward regime-switching system and applications. <i>Systems and Control Letters</i> , 2012 , 61, 911-917	2.4	15
33	Maximum Principle for Risk-Sensitive Stochastic Optimal Control Problem and Applications to Finance. <i>Stochastic Analysis and Applications</i> , 2012 , 30, 997-1018	1.1	12
32	Partial information LQ optimal control of backward stochastic differential equations 2012 ,		1
31	Backward stochastic viability and related properties on Z for BSDEs with applications. <i>Journal of Systems Science and Complexity</i> , 2012 , 25, 675-690	1	3
30	Delayed Stochastic Linear-Quadratic Control Problem and Related Applications. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-22	1.1	11
29	Maximum Principle for Stochastic Recursive Optimal Control Problems Involving Impulse Controls. <i>Abstract and Applied Analysis</i> , 2012 , 2012, 1-16	0.7	2
28	Stochastic Recursive Zero-Sum Differential Game and Mixed Zero-Sum Differential Game Problem. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-15	1.1	0
27	Stochastic Maximum Principle for Optimal Control Problems of Forward-Backward Systems Involving Impulse Controls. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1401-1406	5.9	20
26	A comparison theorem and uniqueness theorem of backward doubly stochastic differential equations. <i>Acta Mathematicae Applicatae Sinica</i> , 2011 , 27, 223-232	0.3	6

25	Relationship Between MP and DPP for the Stochastic Optimal Control Problem of Jump Diffusions. <i>Applied Mathematics and Optimization</i> , 2011 , 63, 151-189	1.5	16
24	A type of general forward-backward stochastic differential equations and applications. <i>Chinese Annals of Mathematics Series B</i> , 2011 , 32, 279-292	0.4	14
23	BDSDEs with locally monotone coefficients and Sobolev solutions for SPDEs. <i>Journal of Differential Equations</i> , 2011 , 251, 759-784	2.1	16
22	Mean-Variance Hedging and Forward-Backward Stochastic Differential Filtering Equations. <i>Abstract and Applied Analysis</i> , 2011 , 2011, 1-20	0.7	6
21	An Application of Dynamic Programming Principle in Corporate International Optimal Investment and Consumption Choice Problem. <i>Mathematical Problems in Engineering</i> , 2010 , 2010, 1-16	1.1	0
20	Maximum principle for forward-backward stochastic control system with random jumps and applications to finance. <i>Journal of Systems Science and Complexity</i> , 2010 , 23, 219-231	1	45
19	A maximum principle for partially observed optimal control of forward-backward stochastic control systems. <i>Science China Information Sciences</i> , 2010 , 53, 2205-2214	3.4	29
18	Maximum principle for the stochastic optimal control problem with delay and application. <i>Automatica</i> , 2010 , 46, 1074-1080	5.7	107
17	Optimal premium policy of an insurance firm: Full and partial information. <i>Insurance: Mathematics and Economics</i> , 2010 , 47, 208-215	1.5	18
16	Maximum principle for stochastic optimal control problem of forward-backward system with delay 2009 ,		5
15	A simple model of corporate international investment under incomplete information and taxes. <i>Annals of Operations Research</i> , 2009 , 165, 123-143	3.2	15
14	Stochastic differential equations and stochastic linear quadratic optimal control problem with Lévy processes. <i>Journal of Systems Science and Complexity</i> , 2009 , 22, 122-136	1	21
13	Comparison theorems for forward backward SDEs. <i>Statistics and Probability Letters</i> , 2009 , 79, 426-435	0.6	8
12	Nash equilibrium point for one kind of stochastic nonzero-sum game problem and BSDEs. <i>Comptes Rendus Mathématique</i> , 2009 , 347, 959-964	0.4	7
11	The Maximum Principles for Stochastic Recursive Optimal Control Problems Under Partial Information. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1230-1242	5.9	73
10	Dynamic Programming Principle for One Kind of Stochastic Recursive Optimal Control Problem and Hamilton-Jacobi-Bellman Equation. <i>SIAM Journal on Control and Optimization</i> , 2008 , 47, 2616-2641	1.9	34
9	Kalman-Bucy filtering equations of forward and backward stochastic systems and applications to recursive optimal control problems. <i>Journal of Mathematical Analysis and Applications</i> , 2008 , 342, 1280-1296	1.1	44
8	The Maximum Principle for One Kind of Stochastic Optimization Problem and Application in Dynamic Measure of Risk. <i>Acta Mathematica Sinica, English Series</i> , 2007 , 23, 2189-2204	0.6	7

7	The corporate optimal portfolio and consumption choice problem in the real project with borrowing rate higher than deposit rate. <i>Applied Mathematics and Computation</i> , 2006 , 175, 1596-1608	2.7	3
6	Fully coupled FBSDE with Brownian motion and Poisson process in stopping time duration. <i>Journal of the Australian Mathematical Society</i> , 2003 , 74, 249-266	0.5	24
5	A MODEL FOR MARKET CLOSURE AND INTERNATIONAL PORTFOLIO MANAGEMENT WITHIN INCOMPLETE INFORMATION. <i>International Journal of Theoretical and Applied Finance</i> , 2002 , 05, 479-495	0.5	7
4	Fully Coupled Forward-Backward Stochastic Differential Equations and Applications to Optimal Control. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 825-843	1.9	255
3	Finite-time control of linear singular systems subject to parametric uncertain and disturbances		3
2	Time-inconsistent linear-quadratic non-zero sum stochastic differential games with random jumps. <i>International Journal of Control</i> , 1-11	1.5	
1	An optimal pricing policy under a Markov chain model. <i>Science China Mathematics</i> , 1	0.8	0