

Song-Ping Zhu

List of Publications by Citations

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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.

143
papers

2,030
citations

25
h-index

38
g-index

161
ext. papers

2,386
ext. citations

2.1
avg, IF

5.57
L-index

#	Paper	IF	Citations
143	An exact and explicit solution for the valuation of American put options. <i>Quantitative Finance</i> , 2006 , 6, 229-242	1.6	172
142	Nonlinear 2D analysis of the efficiency of fixed Oscillating Water Column wave energy converters. <i>Renewable Energy</i> , 2014 , 64, 255-265	8.1	74
141	Modelling the Shear Behaviour of Rock Joints with Asperity Damage Under Constant Normal Stiffness. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 179-195	5.7	73
140	A closed-form analytical solution for the valuation of convertible bonds with constant dividend yield. <i>ANZIAM Journal</i> , 2006 , 47, 477-494	0.5	66
139	Solving linear diffusion equations with the dual reciprocity method in Laplace space. <i>Engineering Analysis With Boundary Elements</i> , 1994 , 13, 1-10	2.6	60
138	An analytical formula for VIX futures and its applications. <i>Journal of Futures Markets</i> , 2012 , 32, 166-190	2.1	53
137	Analytically pricing double barrier options based on a time-fractional Black-Scholes equation. <i>Computers and Mathematics With Applications</i> , 2015 , 69, 1407-1419	2.7	48
136	A finite-element study of the efficiency of arrays of oscillating water column wave energy converters. <i>Ocean Engineering</i> , 2012 , 43, 72-81	3.9	48
135	A predictor-corrector scheme based on the ADI method for pricing American puts with stochastic volatility. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 1-26	2.7	48
134	New solutions for the propagation of long water waves over variable depth. <i>Journal of Fluid Mechanics</i> , 1994 , 278, 391-406	3.7	46
133	Diffraction of short-crested waves around a circular cylinder. <i>Ocean Engineering</i> , 1993 , 20, 389-407	3.9	44
132	On the choice of interpolation functions used in the dual-reciprocity boundary-element method. <i>Engineering Analysis With Boundary Elements</i> , 1994 , 13, 387-396	2.6	43
131	A NEW ANALYTICAL APPROXIMATION FORMULA FOR THE OPTIMAL EXERCISE BOUNDARY OF AMERICAN PUT OPTIONS. <i>International Journal of Theoretical and Applied Finance</i> , 2006 , 09, 1141-1177	0.5	42
130	Analytically pricing European-style options under the modified Black-Scholes equation with a spatial-fractional derivative. <i>Quarterly of Applied Mathematics</i> , 2014 , 72, 597-611	0.7	38
129	Pricing VIX options with stochastic volatility and random jumps. <i>Decisions in Economics and Finance</i> , 2013 , 36, 71-88	0.7	36
128	Scattering of long waves around a circular island mounted on a conical shoal. <i>Wave Motion</i> , 1996 , 23, 353-362	1.8	35
127	A new exact solution for pricing European options in a two-state regime-switching economy. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 2744-2755	2.7	34

126	An explicit series approximation to the optimal exercise boundary of American put options. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1148-1158	3.7	34
125	Numerical calculation of forces induced by short-crested waves on a vertical cylinder of arbitrary cross-section. <i>Ocean Engineering</i> , 1994 , 21, 645-662	3.9	34
124	An efficient computational method for modelling transient heat conduction with nonlinear source terms. <i>Applied Mathematical Modelling</i> , 1996 , 20, 513-522	4.5	29
123	A new DRBEM model for wave refraction and diffraction. <i>Engineering Analysis With Boundary Elements</i> , 1993 , 12, 261-274	2.6	28
122	A predictor-corrector approach for pricing American options under the finite moment log-stable model. <i>Applied Numerical Mathematics</i> , 2015 , 97, 15-29	2.5	27
121	Application of CFD in ship engineering design practice and ship hydrodynamics. <i>Journal of Hydrodynamics</i> , 2006 , 18, 315-322	3.3	27
120	A DRBEM model for microwave heating problems. <i>Applied Mathematical Modelling</i> , 1995 , 19, 287-297	4.5	27
119	Diffraction of ocean waves around a hollow cylindrical shell structure. <i>Wave Motion</i> , 2009 , 46, 78-88	1.8	26
118	A closed-form pricing formula for European options under the Heston model with stochastic interest rate. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 335, 323-333	2.4	25
117	An analytical approximation formula for European option pricing under a new stochastic volatility model with regime-switching. <i>Journal of Economic Dynamics and Control</i> , 2016 , 71, 77-85	1.3	24
116	Hydrodynamic and energetic properties of a finite array of fixed oscillating water column wave energy converters. <i>Ocean Engineering</i> , 2014 , 88, 131-148	3.9	23
115	A general DRBEM model for wave refraction and diffraction. <i>Engineering Analysis With Boundary Elements</i> , 2000 , 24, 377-390	2.6	23
114	How should a local regime-switching model be calibrated?. <i>Journal of Economic Dynamics and Control</i> , 2017 , 78, 149-163	1.3	22
113	A simplified analytical approach for pricing discretely-sampled variance swaps with stochastic volatility. <i>Applied Mathematics Letters</i> , 2012 , 25, 1644-1650	3.5	22
112	The dual reciprocity boundary element method for magnetohydrodynamic channel flows. <i>ANZIAM Journal</i> , 2002 , 44, 305-322	0.5	22
111	A Numerical Model for the Confinement of Oil Spill with Floating Booms. <i>Spill Science and Technology Bulletin</i> , 2002 , 7, 249-255		20
110	On the valuation of variance swaps with stochastic volatility. <i>Applied Mathematics and Computation</i> , 2012 , 219, 1654-1669	2.7	18
109	An analytical solution for long wave refraction over a circular hump. <i>Journal of Applied Mathematics and Computing</i> , 2009 , 30, 315-333	1.8	18

108	Dynamic portfolio choice with return predictability and transaction costs. <i>European Journal of Operational Research</i> , 2019 , 278, 976-988	5.6	17
107	CALCULATING THE EARLY EXERCISE BOUNDARY OF AMERICAN PUT OPTIONS WITH AN APPROXIMATION FORMULA. <i>International Journal of Theoretical and Applied Finance</i> , 2007 , 10, 1203-1227	9.5	17
106	Second-order wave diffraction forces on a vertical circular cylinder due to short-crested waves. <i>Ocean Engineering</i> , 1995 , 22, 135-189	3.9	16
105	Optimal investment and consumption under a continuous-time cointegration model with exponential utility. <i>Quantitative Finance</i> , 2019 , 19, 1135-1149	1.6	16
104	Mathematical Modeling and Experimental Verification of Fluid Flow through Deformable Rough Rock Joints. <i>International Journal of Geomechanics</i> , 2015 , 15, 04014065	3.1	15
103	Improvement on dual reciprocity boundary element method for equations with convective terms. <i>Communications in Numerical Methods in Engineering</i> , 1994 , 10, 361-371		15
102	Patterns of ship waves. II. Gravity-capillary waves. <i>Quarterly of Applied Mathematics</i> , 1989 , 47, 35-44	0.7	15
101	On full calibration of hybrid local volatility and regime-switching models. <i>Journal of Futures Markets</i> , 2018 , 38, 586-606	2.1	14
100	Semi-analytical valuation for discrete barrier options under time-dependent Lévy processes. <i>Journal of Banking and Finance</i> , 2017 , 75, 167-183	2.6	14
99	A multiscale correction to the Black-Scholes formula. <i>Applied Stochastic Models in Business and Industry</i> , 2014 , 30, 753-765	1.1	14
98	Open channel flow past a bottom obstruction. <i>Journal of Engineering Mathematics</i> , 1996 , 30, 487-499	1.2	14
97	Pricing Parisian and Parasian options analytically. <i>Journal of Economic Dynamics and Control</i> , 2013 , 37, 875-896	1.3	13
96	An inverse finite element method for pricing American options. <i>Journal of Economic Dynamics and Control</i> , 2013 , 37, 231-250	1.3	13
95	A combination of LTDRM and ATPS in solving diffusion problems. <i>Engineering Analysis With Boundary Elements</i> , 1998 , 21, 285-289	2.6	13
94	Pricing variance swaps under the Hawkes jump-diffusion process. <i>Journal of Futures Markets</i> , 2019 , 39, 635-655	2.1	12
93	Stock loan valuation under a stochastic interest rate model. <i>Computers and Mathematics With Applications</i> , 2015 , 70, 1757-1771	2.7	12
92	A new predictor-corrector scheme for valuing American puts. <i>Applied Mathematics and Computation</i> , 2011 , 217, 4439-4452	2.7	12
91	A CLOSED-FORM EXACT SOLUTION FOR PRICING VARIANCE SWAPS WITH STOCHASTIC VOLATILITY. <i>Mathematical Finance</i> , 2010 , 21, no-no	2.3	12

90	An application of the LTDRM to transient diffusion problems with nonlinear material properties and nonlinear boundary conditions. <i>Applied Mathematics and Computation</i> , 1997 , 87, 127-160	2.7	12
89	Subcritical, transcritical and supercritical flows over a step. <i>Journal of Fluid Mechanics</i> , 1997 , 333, 257-273	3.7	11
88	Solving transient diffusion problems: time-dependent fundamental solution approaches versus LTDRM approaches. <i>Engineering Analysis With Boundary Elements</i> , 1998 , 21, 87-90	2.6	11
87	Pricing convertible bonds based on a multi-stage compound-option model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 366, 449-462	3.3	10
86	Solving nonlinear time-dependent diffusion equations with the dual reciprocity method in Laplace space. <i>Engineering Analysis With Boundary Elements</i> , 1996 , 18, 19-27	2.6	10
85	Analytically pricing volatility swaps under stochastic volatility. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 288, 332-340	2.4	9
84	An explicit analytic formula for pricing barrier options with regime switching. <i>Mathematics and Financial Economics</i> , 2015 , 9, 29-37	1	9
83	Pricing European options with stochastic volatility under the minimal entropy martingale measure. <i>European Journal of Applied Mathematics</i> , 2016 , 27, 233-247	1	9
82	A new closed-form formula for pricing European options under a skew Brownian motion. <i>European Journal of Finance</i> , 2018 , 24, 1063-1074	1.5	8
81	A perturbation DRBEM model for weakly nonlinear wave run-ups around islands. <i>Engineering Analysis With Boundary Elements</i> , 2009 , 33, 63-76	2.6	8
80	On the application of multiquadric bases in conjunction with the LTDRM method to solve nonlinear diffusion equations. <i>Applied Mathematics and Computation</i> , 1998 , 96, 161-175	2.7	8
79	A numerical model for multiphase flow based on the GMPPS formulation. Part I: Kinematics. <i>Computers and Fluids</i> , 2007 , 36, 1199-1212	2.8	8
78	Optimal investment and consumption with return predictability and execution costs. <i>Economic Modelling</i> , 2020 , 88, 408-419	3.4	8
77	An analytical solution for the HJB equation arising from the Merton problem. <i>International Journal of Financial Engineering</i> , 2018 , 05, 1850008	0.4	8
76	An analytic formula for pricing American-style convertible bonds in a regime switching model. <i>IMA Journal of Management Mathematics</i> , 2015 , 26, 403-428	1.4	7
75	A SIMPLE CLOSED-FORM FORMULA FOR PRICING DISCRETELY-SAMPLED VARIANCE SWAPS UNDER THE HESTON MODEL. <i>ANZIAM Journal</i> , 2014 , 56, 1-27	0.5	7
74	Combined diffraction and radiation of ocean waves around an OWC device. <i>Journal of Applied Mathematics and Computing</i> , 2011 , 36, 401-416	1.8	7
73	On nonlinear transient free-surface flows over a bottom obstruction. <i>Physics of Fluids</i> , 1997 , 9, 2598-2604	4.4	7

72	Equal risk pricing under convex trading constraints. <i>Journal of Economic Dynamics and Control</i> , 2017 , 76, 136-151	1.3	6
71	Pricing puttable convertible bonds with integral equation approaches. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 2757-2781	2.7	6
70	A new integral equation formulation for American put options. <i>Quantitative Finance</i> , 2018 , 18, 483-490	1.6	6
69	Pricing perpetual American options under a stochastic-volatility model with fast mean reversion. <i>Applied Mathematics Letters</i> , 2011 , 24, 1663-1669	3.5	6
68	SHOULD AN AMERICAN OPTION BE EXERCISED EARLIER OR LATER IF VOLATILITY IS NOT ASSUMED TO BE A CONSTANT?. <i>International Journal of Theoretical and Applied Finance</i> , 2011 , 14, 1279-1297	0.5	6
67	A new analytical approximation for European puts with stochastic volatility. <i>Applied Mathematics Letters</i> , 2010 , 23, 687-692	3.5	6
66	Resonant interaction between a uniform current and an oscillating object. <i>Applied Ocean Research</i> , 1995 , 17, 259-264	3.4	6
65	Numerical simulation of discharged waste heat and contaminants into the South Estuary of the Yangtze River. <i>Mathematical and Computer Modelling</i> , 1993 , 18, 107-123		6
64	Pricing forward-start variance swaps with stochastic volatility. <i>Applied Mathematics and Computation</i> , 2015 , 250, 920-933	2.7	5
63	Pricing Parisian down-and-in options. <i>Applied Mathematics Letters</i> , 2015 , 43, 19-24	3.5	5
62	How should a convertible bond be decomposed?. <i>Decisions in Economics and Finance</i> , 2012 , 35, 113-149	0.7	5
61	A spectral-collocation method for pricing perpetual American puts with stochastic volatility. <i>Applied Mathematics and Computation</i> , 2011 , 217, 9033-9040	2.7	5
60	ON VARIOUS QUANTITATIVE APPROACHES FOR PRICING AMERICAN OPTIONS. <i>New Mathematics and Natural Computation</i> , 2011 , 07, 313-332	0.6	5
59	Pricing perpetual American puts under multi-scale stochastic volatility. <i>Asymptotic Analysis</i> , 2012 , 80, 133-148	0.7	5
58	A flat ship theory on bow and stern flows. <i>ANZIAM Journal</i> , 2003 , 45, 1-15	0.5	5
57	A new numerical approach for solving high-order non-linear ordinary differential equations. <i>Communications in Numerical Methods in Engineering</i> , 2003 , 19, 601-614		5
56	Modelling the confinement of spilled oil with floating booms. <i>Applied Mathematical Modelling</i> , 2001 , 25, 713-729	4.5	5
55	An efficient numerical calculation of wave loads on an array of vertical cylinders. <i>Applied Mathematical Modelling</i> , 1996 , 20, 26-33	4.5	5

54	Solving general field equations in infinite domains with dual reciprocity boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 1993 , 12, 241-250	2.6	5
53	A series-form solution for pricing variance and volatility swaps with stochastic volatility and stochastic interest rate. <i>Computers and Mathematics With Applications</i> , 2018 , 76, 2223-2234	2.7	5
52	Robust Portfolio Optimization with Multi-Factor Stochastic Volatility. <i>Journal of Optimization Theory and Applications</i> , 2020 , 186, 264-298	1.6	4
51	Pricing American-style Parisian up-and-out call options. <i>European Journal of Applied Mathematics</i> , 2018 , 29, 1-29	1	4
50	Pricing American call options under a hard-to-borrow stock model. <i>European Journal of Applied Mathematics</i> , 2018 , 29, 494-514	1	4
49	An integral equation approach for the valuation of American-style down-and-out calls with rebates. <i>Computers and Mathematics With Applications</i> , 2016 , 71, 544-564	2.7	4
48	A comparison study of nonlinear waves generated behind a semicircular trench. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1996 , 452, 1563-1584	2.4	4
47	A three-dimensional numerical model of the response of the Australian North West Shelf to tropical cyclones 1994 , 36, 64-100		4
46	An alternative form used to calibrate the Heston option pricing model. <i>Computers and Mathematics With Applications</i> , 2016 , 71, 1831-1842	2.7	4
45	A Numerical Solution of Optimal Portfolio Selection Problem with General Utility Functions. <i>Computational Economics</i> , 2020 , 55, 957-981	1.4	4
44	On the Convexity Correction Approximation in Pricing Volatility Swaps and VIX Futures. <i>New Mathematics and Natural Computation</i> , 2018 , 14, 383-401	0.6	4
43	Pricing European call options under a hard-to-borrow stock model. <i>Applied Mathematics and Computation</i> , 2019 , 357, 243-257	2.7	3
42	Optimal execution with regime-switching market resilience. <i>Journal of Economic Dynamics and Control</i> , 2019 , 101, 17-40	1.3	3
41	Pricing weather derivatives with the market price of risk extracted from the utility indifference valuation. <i>Computers and Mathematics With Applications</i> , 2020 , 79, 3394-3409	2.7	3
40	A modified Black-Scholes pricing formula for European options with bounded underlying prices. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 1635-1647	2.7	3
39	Connection between trinomial trees and finite difference methods for option pricing with state-dependent switching rates. <i>International Journal of Computer Mathematics</i> , 2018 , 95, 341-360	1.2	3
38	A comparative study of the direct boundary element method and the dual reciprocity boundary element method in solving the Helmholtz equation. <i>ANZIAM Journal</i> , 2007 , 49, 131-150	0.5	3
37	Application of CFD in ship engineering design practice and ship hydrodynamics. <i>Journal of Hydrodynamics</i> , 2006 , 18, 308-315	3.3	3

36	Selective withdrawal from stratified streams 1996 , 38, 26-40		3
35	Stationary Binnie waves near resonance. <i>Quarterly of Applied Mathematics</i> , 1992 , 50, 585-597	0.7	3
34	An Analytic Approach for Pricing American Options with Regime Switching. <i>Journal of Risk and Financial Management</i> , 2021 , 14, 188	2.4	3
33	PRICING EUROPEAN OPTIONS ON REGIME-SWITCHING ASSETS: A COMPARATIVE STUDY OF MONTE CARLO AND FINITE-DIFFERENCE APPROACHES. <i>ANZIAM Journal</i> , 2017 , 59, 183-199	0.5	2
32	A new simple tree approach for the Heston's stochastic volatility model. <i>Computers and Mathematics With Applications</i> , 2019 , 78, 1993-2010	2.7	2
31	A revised option pricing formula with the underlying being banned from short selling. <i>Quantitative Finance</i> , 2020 , 20, 935-948	1.6	2
30	OPTIMAL EXERCISE PRICE OF AMERICAN OPTIONS NEAR EXPIRY. <i>ANZIAM Journal</i> , 2009 , 51, 145-161	0.5	2
29	Resonant transcritical flow over a wavy bed. <i>Wave Motion</i> , 1997 , 25, 295-302	1.8	2
28	Combined refraction and diffraction of short waves using the dual-reciprocity boundary-element method. <i>Applied Ocean Research</i> , 1995 , 17, 315-322	3.4	2
27	Computer-simulated current responses to cyclones on the North West Shelf of Australia. <i>Mathematical and Computer Modelling</i> , 1996 , 24, 93-115		2
26	Optimal portfolio execution problem with stochastic price impact. <i>Automatica</i> , 2020 , 112, 108739	5.7	2
25	Numerically pricing convertible bonds under stochastic volatility or stochastic interest rate with an ADI-based predictor-corrector scheme. <i>Computers and Mathematics With Applications</i> , 2020 , 79, 1393-1419	2.7	2
24	A note on the calculation of default probabilities in structural credit risk modeling with Hawkes jump-diffusion processes. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 381, 113037	2.4	2
23	A new algorithm for calibrating local regime-switching models. <i>IMA Journal of Management Mathematics</i> , 2021 , 32, 237-255	1.4	2
22	A numerical study of the utility-indifference approach for pricing American options. <i>Computers and Mathematics With Applications</i> , 2020 , 80, 894-905	2.7	1
21	Pricing resettable convertible bonds using an integral equation approach. <i>IMA Journal of Management Mathematics</i> , 2020 , 31, 417-443	1.4	1
20	AN APPROPRIATE APPROACH TO PRICING EUROPEAN-STYLE OPTIONS WITH THE ADOMIAN DECOMPOSITION METHOD. <i>ANZIAM Journal</i> , 2018 , 59, 349-369	0.5	1
19	A simple approximation formula for calculating the optimal exercise boundary of American puts. <i>Journal of Applied Mathematics and Computing</i> , 2011 , 37, 611-623	1.8	1

18	On the Efficiency of Oscillating Water Column (OWC) Devices in Converting Ocean Wave Energy to Electricity Under Weakly Nonlinear Waves 2012 ,		1
17	Refraction of interfacial waves over a circular hump. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2009 , 162, 199-213	0.3	1
16	A Numerical Model for Multiphase Flow Based On The GMPPS Formulation, Part II: Dynamics. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2008 , 2, 284-298	4.5	1
15	Continuous time mean-variance-utility portfolio problem and its equilibrium strategy. <i>Optimization</i> ,1-29	1.2	1
14	VARIANCE AND VOLATILITY SWAPS UNDER A TWO-FACTOR STOCHASTIC VOLATILITY MODEL WITH REGIME SWITCHING. <i>International Journal of Theoretical and Applied Finance</i> , 2019 , 22, 1950009	0.5	1
13	A hybrid computational approach for option pricing. <i>International Journal of Financial Engineering</i> , 2018 , 05, 1850021	0.4	1
12	Nonlinear PDE model for European options with transaction costs under Heston stochastic volatility. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 103, 105986	3.7	1
11	Portfolio choice with return predictability and small trading frictions. <i>Economic Modelling</i> , 2022 , 111, 105823	3.4	1
10	On the improvement of a numerical method for solving high-order non-linear ordinary differential equations. <i>Communications in Numerical Methods in Engineering</i> , 2006 , 24, 111-124		0
9	An exact and explicit formula for pricing lookback options with regime switching. <i>Journal of Industrial and Management Optimization</i> , 2021 ,	2	0
8	Revisiting the Merton Problem: from HARA to CARA Utility. <i>Computational Economics</i> ,1	1.4	0
7	An alternative form to calibrate the correlated Stein-Stein option pricing model. <i>Computational and Applied Mathematics</i> , 2019 , 38, 1	2.4	
6	An accurate approximation formula for pricing European options with discrete dividend payments. <i>IMA Journal of Management Mathematics</i> , 2016 , dpw020	1.4	
5	Optimal exercise of American puts with transaction costs under utility maximization. <i>Applied Mathematics and Computation</i> , 2022 , 415, 126684	2.7	
4	An Extension of the LTDRM to Some Highly Nonlinear Diffusion Equations 1995 , 2975-2980		
3	AN ANALYTICAL SOLUTION FOR PARISIAN UP-AND-IN CALLS. <i>ANZIAM Journal</i> , 2016 , 57, 269-279	0.5	
2	A closed-form pricing formula for catastrophe equity options. <i>Probability in the Engineering and Informational Sciences</i> ,1-13	0.6	
1	On the Asymptotic Behavior of the Optimal Exercise Price Near Expiry of an American Put Option under Stochastic Volatility. <i>Journal of Risk and Financial Management</i> , 2022 , 15, 189	2.4	

