

Lei Li

List of Publications by Year in descending order

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33
papers

608
citations

686830

13
h-index

642321

23
g-index

33
all docs

33
docs citations

33
times ranked

323
citing authors

#	ARTICLE	IF	CITATIONS
1	On the mean field limit of the Random Batch Method for interacting particle systems. <i>Science China Mathematics</i> , 2022, 65, 169-202.	0.8	6
2	Numerical stability of GrÃ¼nwaldâ€™Letnikov method for time fractional delay differential equations. <i>BIT Numerical Mathematics</i> , 2022, 62, 995-1027.	1.0	6
3	Superscalability of the random batch Ewald method. <i>Journal of Chemical Physics</i> , 2022, 156, 014114.	1.2	14
4	Random Batch Methods for Classical and Quantum Interacting Particle Systems and Statistical Samplings. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2022, , 153-200.	0.4	5
5	On the Random Batch Method for Second Order Interacting Particle Systems. <i>Multiscale Modeling and Simulation</i> , 2022, 20, 741-768.	0.6	2
6	Convergence of the Random Batch Method for Interacting Particles with Disparate Species and Weights. <i>SIAM Journal on Numerical Analysis</i> , 2021, 59, 746-768.	1.1	21
7	A Random Batch Ewald Method for Particle Systems with Coulomb Interactions. <i>SIAM Journal of Scientific Computing</i> , 2021, 43, B937-B960.	1.3	22
8	Scheduling fixed length quarantines to minimize the total number of fatalities during an epidemic. <i>Journal of Mathematical Biology</i> , 2021, 82, 69.	0.8	6
9	Complete monotonicity-preserving numerical methods for time fractional ODEs. <i>Communications in Mathematical Sciences</i> , 2021, 19, 1301-1336.	0.5	6
10	A consensus-based global optimization method for high dimensional machine learning problems. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2021, 27, S5.	0.7	39
11	Random Batch Methods (RBM) for interacting particle systems. <i>Journal of Computational Physics</i> , 2020, 400, 108877.	1.9	62
12	A Random-Batch Monte Carlo Method for Many-Body Systems with Singular Kernels. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A1486-A1509.	1.3	19
13	A stochastic version of Stein variational gradient descent for efficient sampling. <i>Communications in Applied Mathematics and Computational Science</i> , 2020, 15, 37-63.	0.7	14
14	Large time behaviors of upwind schemes and \mathbb{B} -schemes for Fokker-Planck equations on \mathbb{R}^d by jump processes. <i>Mathematics of Computation</i> , 2020, 89, 2283-2320.	1.1	9
15	Numerical approximation and fast evaluation of the overdamped generalized Langevin equation with fractional noise. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020, 54, 431-463.	0.8	8
16	A Discretization of Caputo Derivatives with Application to Time Fractional SDEs and Gradient Flows. <i>SIAM Journal on Numerical Analysis</i> , 2019, 57, 2095-2120.	1.1	4
17	On the mean field limit for Brownian particles with Coulomb interaction in 3D. <i>Journal of Mathematical Physics</i> , 2019, 60, .	0.5	12
18	Patched peakon weak solutions of the modified Camassaâ€™Holm equation. <i>Physica D: Nonlinear Phenomena</i> , 2019, 390, 15-35.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Cauchy problems for Keller–Segel type time–space fractional diffusion equation. <i>Journal of Differential Equations</i> , 2018, 265, 1044-1096.	1.1	67
20	p-Euler equations and p-Navier–Stokes equations. <i>Journal of Differential Equations</i> , 2018, 264, 4707-4748.	1.1	5
21	A note on one-dimensional time fractional ODEs. <i>Applied Mathematics Letters</i> , 2018, 83, 87-94.	1.5	4
22	Some Compactness Criteria for Weak Solutions of Time Fractional PDEs. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 3963-3995.	0.9	54
23	A Generalized Definition of Caputo Derivatives and Its Application to Fractional ODEs. <i>SIAM Journal on Mathematical Analysis</i> , 2018, 50, 2867-2900.	0.9	68
24	Semigroups of stochastic gradient descent and online principal component analysis: properties and diffusion approximations. <i>Communications in Mathematical Sciences</i> , 2018, 16, 777-789.	0.5	7
25	Fractional Stochastic Differential Equations Satisfying Fluctuation-Dissipation Theorem. <i>Journal of Statistical Physics</i> , 2017, 169, 316-339.	0.5	21
26	A note on deconvolution with completely monotone sequences and discrete fractional calculus. <i>Quarterly of Applied Mathematics</i> , 2017, 76, 189-198.	0.5	8
27	A Locally Gradient-Preserving Reinitialization for Level Set Functions. <i>Journal of Scientific Computing</i> , 2017, 71, 274-302.	1.1	1
28	Continuous and discrete one dimensional autonomous fractional ODEs. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 17-17.	0.5	4
29	Swimming and pumping by helical waves in viscous and viscoelastic fluids. <i>Physics of Fluids</i> , 2015, 27, .	1.6	14
30	The instability of a sedimenting suspension of weakly flexible fibres. <i>Journal of Fluid Mechanics</i> , 2014, 756, 935-964.	1.4	14
31	Analytical solution for laterally loaded long piles based on Fourier–Laplace integral. <i>Applied Mathematical Modelling</i> , 2014, 38, 5198-5216.	2.2	16
32	Swimming and pumping of rigid helical bodies in viscous fluids. <i>Physics of Fluids</i> , 2014, 26, 041901.	1.6	7
33	The sedimentation of flexible filaments. <i>Journal of Fluid Mechanics</i> , 2013, 735, 705-736.	1.4	57