Heyrim Cho

List of Publications by Year
in descending order

18 papers	329 citations	1040056 9 h-index	940533 16 g-index
21 all docs	21 docs citations	21 times ranked	350 citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical deconvolution of CAR T-cell proliferation and exhaustion from real-time killing assay data. Journal of the Royal Society Interface, 2020, 17, 20190734.	3.4	58
2	A computable evolution equation for the joint response-excitation probability density function of stochastic dynamical systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 759-783.	2.1	53
3	Karhunenâ€"LoÃ¨ve expansion for multi-correlated stochastic processes. Probabilistic Engineering Mechanics, 2013, 34, 157-167.	2.7	44
4	Numerical methods for high-dimensional probability density function equations. Journal of Computational Physics, 2016, 305, 817-837.	3.8	39
5	Modeling the chemotherapy-induced selection of drug-resistant traits during tumor growth. Journal of Theoretical Biology, 2018, 436, 120-134.	1.7	24
6	Modeling the Dynamics of Heterogeneity of Solid Tumors in Response to Chemotherapy. Bulletin of Mathematical Biology, 2017, 79, 2986-3012.	1.9	22
7	Adaptive Discontinuous Galerkin Method for Response-Excitation PDF Equations. SIAM Journal of Scientific Computing, 2013, 35, B890-B911.	2.8	19
8	Modelling acute myeloid leukaemia in a continuum of differentiation states. Letters in Biomathematics, 2018, 5, S69-S98.	0.1	12
9	Modeling continuous levels of resistance to multidrug therapy in cancer. Applied Mathematical Modelling, 2018, 64, 733-751.	4.2	11
10	Statistical analysis and simulation of random shocks in stochastic Burgers equation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140080.	2.1	9
11	Algorithms for Propagating Uncertainty Across Heterogeneous Domains. SIAM Journal of Scientific Computing, 2015, 37, A3030-A3054.	2.8	6
12	Study of dose-dependent combination immunotherapy using engineered T cells and IL-2 in cervical cancer. Journal of Theoretical Biology, 2020, 505, 110403.	1.7	5
13	Bayesian Information-Theoretic Calibration of Radiotherapy Sensitivity Parameters for Informing Effective Scanning Protocols in Cancer. Journal of Clinical Medicine, 2020, 9, 3208.	2.4	5
14	The impact of competition between cancer cells and healthy cells on optimal drug delivery. Mathematical Modelling of Natural Phenomena, 2020, 15, 42.	2.4	5
15	AN ADAPTIVE REDUCED BASIS COLLOCATION METHOD BASED ON PCM ANOVA DECOMPOSITION FOR ANISOTROPIC STOCHASTIC PDES. , 2018, 8, 193-210.		4
16	Numerical Methods for High-Dimensional Kinetic Equations. SEMA SIMAI Springer Series, 2017, , 93-125.	0.7	2
17	Application of adaptive ANOVA and reduced basis methods to the stochastic Stokes-Brinkman problem. Computational Geosciences, 2021, 25, 1191-1213.	2.4	2
18	Comparison of cell state models derived from single-cell RNA sequencing data: graph versus multi-dimensional space. Mathematical Biosciences and Engineering, 2022, 19, 8505-8536.	1.9	2