

Kevin Leder

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

854
citations

623734

14
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1350
citing authors

#	ARTICLE	IF	CITATIONS
1	Large deviations of cancer recurrence timing. <i>Stochastic Processes and Their Applications</i> , 2022, 147, 1-50.	0.9	1
2	Exact site frequency spectra of neutrally evolving tumors: A transition between power laws reveals a signature of cell viability. <i>Theoretical Population Biology</i> , 2021, 142, 67-90.	1.1	12
3	Mutation timing in a spatial model of evolution. <i>Stochastic Processes and Their Applications</i> , 2020, 130, 6388-6413.	0.9	5
4	Understanding the role of phenotypic switching in cancer drug resistance. <i>Journal of Theoretical Biology</i> , 2020, 490, 110162.	1.7	33
5	Optimizing Chemoradiotherapy to Target Metastatic Disease and Tumor Growth. <i>INFORMS Journal on Computing</i> , 2018, 30, 259-277.	1.7	1
6	A Robust Optimization Approach to Cancer Treatment under Toxicity Uncertainty. <i>Methods in Molecular Biology</i> , 2018, 1711, 297-331.	0.9	0
7	Optimal treatment and stochastic modeling of heterogeneous tumors. <i>Biology Direct</i> , 2016, 11, 40.	4.6	9
8	Optimal radiotherapy dose schedules under parametric uncertainty. <i>Physics in Medicine and Biology</i> , 2016, 61, 338-364.	3.0	16
9	Spatial Moran models, II: cancer initiation in spatially structured tissue. <i>Journal of Mathematical Biology</i> , 2016, 72, 1369-1400.	1.9	30
10	The Impact of Microenvironmental Heterogeneity on the Evolution of Drug Resistance in Cancer Cells. <i>Cancer Informatics</i> , 2015, 14s4, CIN.S19338.	1.9	59
11	Minimizing metastatic risk in radiotherapy fractionation schedules. <i>Physics in Medicine and Biology</i> , 2015, 60, N405-N417.	3.0	4
12	An Evolutionary Approach for Identifying Driver Mutations in Colorectal Cancer. <i>PLoS Computational Biology</i> , 2015, 11, e1004350.	3.2	25
13	Escape times for branching processes with random mutational fitness effects. <i>Stochastic Processes and Their Applications</i> , 2014, 124, 3661-3697.	0.9	9
14	Multifocality and recurrence risk: A quantitative model of field cancerization. <i>Journal of Theoretical Biology</i> , 2014, 355, 170-184.	1.7	32
15	Mathematical Modeling of PDGF-Driven Glioblastoma Reveals Optimized Radiation Dosing Schedules. <i>Cell</i> , 2014, 156, 603-616.	28.9	241
16	Dynamics of cancer recurrence. <i>Annals of Applied Probability</i> , 2013, 23, .	1.3	15
17	Evolutionary Modeling of Combination Treatment Strategies To Overcome Resistance to Tyrosine Kinase Inhibitors in Non-Small Cell Lung Cancer. <i>Molecular Pharmaceutics</i> , 2011, 8, 2069-2079.	4.6	55
18	Intratumor Heterogeneity in Evolutionary Models of Tumor Progression. <i>Genetics</i> , 2011, 188, 461-477.	2.9	118

#	ARTICLE	IF	CITATIONS
19	Analysis of a Splitting Estimator for Rare Event Probabilities in Jackson Networks. <i>Stochastic Systems</i> , 2011, 1, 306-339.	1.1	5
20	Fitness Conferred by BCR-ABL Kinase Domain Mutations Determines the Risk of Pre-Existing Resistance in Chronic Myeloid Leukemia. <i>PLoS ONE</i> , 2011, 6, e27682.	2.5	55
21	Evolutionary dynamics of tumor progression with random fitness values. <i>Theoretical Population Biology</i> , 2010, 78, 54-66.	1.1	51
22	The Therapeutic Implications of Plasticity of the Cancer Stem Cell Phenotype. <i>PLoS ONE</i> , 2010, 5, e14366.	2.5	52
23	Importance Sampling for Weighted-Serve-the-Longest-Queue. <i>Mathematics of Operations Research</i> , 2009, 34, 642-660.	1.3	10
24	Large deviations and importance sampling for a tandem network with slow-down. <i>Queueing Systems</i> , 2007, 57, 71-83.	0.9	16