Kevin Leder

List of Publications by Year
in descending order

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	Mathematical Modeling of PDGF-Driven Glioblastoma Reveals Optimized Radiation Dosing Schedules. Cell, 2014, 156, 603-616.	28.9	241
2	Intratumor Heterogeneity in Evolutionary Models of Tumor Progression. Genetics, 2011, 188, 461-477.	2.9	118
3	The Impact of Microenvironmental Heterogeneity on the Evolution of Drug Resistance in Cancer Cells. Cancer Informatics, 2015, 14s4, CIN.S19338.	1.9	59
4	Evolutionary Modeling of Combination Treatment Strategies To Overcome Resistance to Tyrosine Kinase Inhibitors in Non-Small Cell Lung Cancer. Molecular Pharmaceutics, 2011, 8, 2069-2079.	4.6	55
5	Fitness Conferred by BCR-ABL Kinase Domain Mutations Determines the Risk of Pre-Existing Resistance in Chronic Myeloid Leukemia. PLoS ONE, 2011, 6, e27682.	2.5	55
6	The Therapeutic Implications of Plasticity of the Cancer Stem Cell Phenotype. PLoS ONE, 2010, 5, e14366.	2.5	52
7	Evolutionary dynamics of tumor progression with random fitness values. Theoretical Population Biology, 2010, 78, 54-66.	1.1	51
8	Understanding the role of phenotypic switching in cancer drug resistance. Journal of Theoretical Biology, 2020, 490, 110162.	1.7	33
9	Multifocality and recurrence risk: A quantitative model of field cancerization. Journal of Theoretical Biology, 2014, 355, 170-184.	1.7	32
10	Spatial Moran models, II: cancer initiation in spatially structured tissue. Journal of Mathematical Biology, 2016, 72, 1369-1400.	1.9	30
11	An Evolutionary Approach for Identifying Driver Mutations in Colorectal Cancer. PLoS Computational Biology, 2015, 11, e1004350.	3.2	25
12	Large deviations and importance sampling for a tandem network with slow-down. Queueing Systems, 2007, 57, 71-83.	0.9	16
13	Optimal radiotherapy dose schedules under parametric uncertainty. Physics in Medicine and Biology, 2016, 61, 338-364.	3.0	16
14	Dynamics of cancer recurrence. Annals of Applied Probability, 2013, 23, .	1.3	15
15	Exact site frequency spectra of neutrally evolving tumors: A transition between power laws reveals a signature of cell viability. Theoretical Population Biology, 2021, 142, 67-90.	1.1	12
16	Importance Sampling for Weighted-Serve-the-Longest-Queue. Mathematics of Operations Research, 2009, 34, 642-660.	1.3	10
17	Escape times for branching processes with random mutational fitness effects. Stochastic Processes and Their Applications, 2014, 124, 3661-3697.	0.9	9
18	Optimal treatment and stochastic modeling of heterogeneous tumors. Biology Direct, 2016, 11, 40.	4.6	9

#	Article	IF	Citations
19	Analysis of a Splitting Estimator for Rare Event Probabilities in Jackson Networks. Stochastic Systems, 2011, 1, 306-339.	1.1	5
20	Mutation timing in a spatial model of evolution. Stochastic Processes and Their Applications, 2020, 130, 6388-6413.	0.9	5
21	Minimizing metastatic risk in radiotherapy fractionation schedules. Physics in Medicine and Biology, 2015, 60, N405-N417.	3.0	4
22	Optimizing Chemoradiotherapy to Target Metastatic Disease and Tumor Growth. INFORMS Journal on Computing, 2018, 30, 259-277.	1.7	1
23	Large deviations of cancer recurrence timing. Stochastic Processes and Their Applications, 2022, 147, 1-50.	0.9	1
24	A Robust Optimization Approach to Cancer Treatment under Toxicity Uncertainty. Methods in Molecular Biology, 2018, 1711, 297-331.	0.9	0