

# Ryan Zurakowski

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,364  
citations

623574

14  
h-index

526166

27  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1784  
citing authors

#	ARTICLE	IF	CITATIONS
1	HIV-1 persistence in CD4+ T cells with stem cell-like properties. <i>Nature Medicine</i> , 2014, 20, 139-142.	15.2	379
2	Long-Term Antiretroviral Treatment Initiated at Primary HIV-1 Infection Affects the Size, Composition, and Decay Kinetics of the Reservoir of HIV-1-Infected CD4 T Cells. <i>Journal of Virology</i> , 2014, 88, 10056-10065.	1.5	242
3	A model predictive control based scheduling method for HIV therapy. <i>Journal of Theoretical Biology</i> , 2006, 238, 368-382.	0.8	150
4	The Tobit Kalman Filter: An Estimator for Censored Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2016, 24, 365-371.	3.2	79
5	HIV Model Parameter Estimates from Interruption Trial Data including Drug Efficacy and Reservoir Dynamics. <i>PLoS ONE</i> , 2012, 7, e40198.	1.1	71
6	Modelling HIV-1 2-LTR dynamics following raltegravir intensification. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130186.	1.5	39
7	Persistence of an intact HIV reservoir in phenotypically naive T cells. <i>JCI Insight</i> , 2020, 5, .	2.3	33
8	Nonlinear estimators for censored data: A comparison of the EKF, the UKF and the Tobit Kalman filter. , 2015, , .		31
9	Episomal HIV-1 DNA and its relationship to other markers of HIV-1 persistence. <i>Retrovirology</i> , 2018, 15, 15.	0.9	29
10	Model-driven approaches for in vitro combination therapy using ONYX-015 replicating oncolytic adenovirus. <i>Journal of Theoretical Biology</i> , 2007, 245, 1-8.	0.8	24
11	Estimation of saturated data using the Tobit Kalman filter. , 2014, , .		23
12	Optimal Antiviral Switching to Minimize Resistance Risk in HIV Therapy. <i>PLoS ONE</i> , 2011, 6, e27047.	1.1	22
13	Ballistic Roll Estimation using EKF Frequency Tracking and Adaptive Noise Cancellation. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2013, 49, 2546-2553.	2.6	22
14	Nonlinear observer output-feedback MPC treatment scheduling for HIV. <i>BioMedical Engineering OnLine</i> , 2011, 10, 40.	1.3	21
15	Spatial modeling of HIV cryptic viremia and 2-LTR formation during raltegravir intensification. <i>Journal of Theoretical Biology</i> , 2014, 345, 61-69.	0.8	20
16	Controlling the evolution of resistance. <i>Journal of Process Control</i> , 2011, 21, 367-378.	1.7	16
17	Modeling Uncertainty in Single-Copy Assays for HIV. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3381-3382.	1.8	15
18	Naive infection predicts reservoir diversity and is a formidable hurdle to HIV eradication. <i>JCI Insight</i> , 2021, 6, .	2.3	15

#	ARTICLE	IF	CITATIONS
19	A new strategy to decrease risk of resistance emerging during therapy switching in HIV treatment. , 2008, , .		10
20	A generalized multi-strain model of HIV evolution with implications for drug-resistance management. , 2009, , .		10
21	Treatment interruptions to decrease risk of resistance emerging during therapy switching in HIV treatment. , 2007, , .		9
22	Estimation of mobile vehicle range & position using the tobit Kalman filter. , 2014, , .		9
23	An Integrated Spatial Dynamicsâ€”Pharmacokinetic Model Explaining Poor Penetration of Anti-retroviral Drugs in Lymph Nodes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 667.	2.0	8
24	Robust Closed-Loop Minimal Sampling Method for HIV Therapy Switching Strategies. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2227-2234.	2.5	7
25	Prospective HIV clinical trial comparison by expected Kullback-Leibler Divergence. , 2016, 2016, 1295-1300.		7
26	Modeling-error robustness of a viral-load preconditioning strategy for HIV treatment switching. , 2010, 2010, 5155-5160.		6
27	Closed-loop minimal sampling method for determining viral-load minima during switching. , 2010, 2010, 460-461.		6
28	A compartment based model for the formation of 2-LTR circles after raltegravir intensification. , 2012, , .		6
29	Next-Generation Sequencing in a Direct Model of HIV Infection Reveals Important Parallels to and Differences from In Vivo Reservoir Dynamics. <i>Journal of Virology</i> , 2020, 94, .	1.5	6
30	Significant Unresolved Questions and Opportunities for Bioengineering in Understanding and Treating COVID-19 Disease Progression. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 259-284.	1.0	5
31	Kalman filter-based tracking of multiple similar objects from a moving camera platform. , 2012, , .		4
32	Conditions for invasion of synapse-forming HIV variants. , 2013, , .		4
33	Synaptic transmission may provide an evolutionary benefit to HIV through modulation of latency. <i>Journal of Theoretical Biology</i> , 2018, 455, 261-268.	0.8	4
34	Resistance Risk Management in HIV Therapy Switching with Explicit Quiescent T-Cell Modeling. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 10325-10330.	0.4	3
35	Measurement error robustness of a closed-loop minimal sampling method for HIV therapy switching. , 2011, 2011, 116-9.		3
36	Approximate-model closed-loop minimal sampling method for HIV viral-load minima detection. , 2011, , 5418-5419.		3

#	ARTICLE	IF	CITATIONS
37	Order preservation of expected information content using Unscented Transform approximation of multivariate prior distributions in HIV 2-LTR experiment design. , 2016, 2016, 5597-5602.		3
38	Recursive estimation with quantized and censored measurements. , 2016, , .		3
39	Increased inflammation in sanctuary sites may explain viral blips in HIV infection. IET Systems Biology, 2016, 10, 153-166.	0.8	3
40	Treatment scheduling for HIV using robust nonlinear model predictive control. Australian Journal of Electrical and Electronics Engineering, 2005, 2, 49-58.	0.7	2
41	Evaluation of HIV 2-LTR formation models using monotone system theory. , 2014, , .		2
42	HIV 2-LTR experiment design optimization. PLoS ONE, 2018, 13, e0206700.	1.1	2
43	Positive Feedback Through Inflammation Creates Bistable Behavior in HIV Tissue Sanctuaries. , 2019, 2019, 3456-3461.		2
44	Modeling and analysis of gene-therapeutic combination chemotherapy for pancreatic cancer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14217-14222.	0.4	1
45	Resistance evolution in HIV &#x2014; Modeling when to intervene. , 2012, 2012, 4053-4058.		1
46	Analysis of HIV-1 compartmental model parameters using Bayesian MCMC estimation. , 2014, , .		1
47	Using the Tools we Have: Low-efficacy Vaccines and HIV. EBioMedicine, 2015, 2, 1867-1868.	2.7	1
48	Quantitative analysis of viral persistence and transient viral load rebound from HIV clinical data. , 2011, 2011, 3585-8.		0
49	Optimal multi-drug approaches for reduction of the latent pool in HIV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 784-789.	0.4	0
50	Experiment design for early molecular events in HIV infection. , 2017, 2017, 122-127.		0
51	The effect of multiplicity of infection on the temperateness of a bacteriophage: Implications for viral fitness. , 2017, , .		0
52	Implications of measurement assay type in design of HIV experiments. , 2017, 2017, 4106-4111.		0
53	Optimal control modulation of HIV reservoir formation rate by antigen infusion *. , 2019, 2019, 5662-5667.		0