

John Yin

List of Publications by Year in descending order

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67
papers

1,839
citations

257450

24
h-index

330143

37
g-index

67
all docs

67
docs citations

67
times ranked

1920
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Escherichia coli Physiology on Growth of Phage T7 In Vivo and In Silico. Journal of Bacteriology, 2002, 184, 1888-1894.	2.2	146
2	Quantitative Intracellular Kinetics of HIV Type 1. AIDS Research and Human Retroviruses, 1999, 15, 273-283.	1.1	101
3	Intracellular kinetics of a growing virus: A genetically structured simulation for bacteriophage T7. , 1997, 55, 375-389.		94
4	Growth of an RNA virus in single cells reveals a broad fitness distribution. Virology, 2009, 385, 39-46.	2.4	78
5	Kinetics of virus production from single cells. Virology, 2012, 424, 11-17.	2.4	77
6	Dependence of Epistasis on Environment and Mutation Severity as Revealed by <i>in Silico</i> Mutagenesis of Phage T7. Genetics, 2002, 160, 1273-1281.	2.9	66
7	Amplification and Spread of Viruses in a Growing Plaque. Journal of Theoretical Biology, 1999, 200, 365-373.	1.7	65
8	Population dynamics of an RNA virus and its defective interfering particles in passage cultures. Virology Journal, 2010, 7, 257.	3.4	62
9	Kinetic Modeling of Virus Growth in Cells. Microbiology and Molecular Biology Reviews, 2018, 82, .	6.6	49
10	A quantifiable phenotype of viral propagation. Biochemical and Biophysical Research Communications, 1991, 174, 1009-1014.	2.1	46
11	Subsurface oxidation of polyethylene. , 1998, 42, 523-529.		45
12	High-Throughput Single-Cell Kinetics of Virus Infections in the Presence of Defective Interfering Particles. Journal of Virology, 2016, 90, 1599-1612.	3.4	40
13	Multiple-hit inhibition of infection by defective interfering particles. Journal of General Virology, 2009, 90, 888-899.	2.9	40
14	Arrested spread of vesicular stomatitis virus infections in vitro depends on interferon-mediated antiviral activity. Biotechnology and Bioengineering, 2005, 90, 793-804.	3.3	37
15	Tools for Single-Cell Kinetic Analysis of Virus-Host Interactions. PLoS ONE, 2016, 11, e0145081.	2.5	35
16	Dynamics of viral infections: incorporating both the intracellular and extracellular levels. Computers and Chemical Engineering, 2005, 29, 675-686.	3.8	34
17	Image-Guided Modeling of Virus Growth and Spread. Bulletin of Mathematical Biology, 2008, 70, 1730-1748.	1.9	33
18	Model-Based Design of Growth-Attenuated Viruses. PLoS Computational Biology, 2006, 2, e116.	3.2	32

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19	Stochastic Kinetic Modeling of Vesicular Stomatitis Virus Intracellular Growth. <i>Bulletin of Mathematical Biology</i> , 2009, 71, 1671-1692.	1.9	31
20	Kinetic Differences and Synergistic Antiviral Effects Between Type I and Type III Interferon Signaling Indicate Pathway Independence. <i>Journal of Interferon and Cytokine Research</i> , 2015, 35, 734-747.	1.2	31
21	Differential Disruption of Nucleocytoplasmic Trafficking Pathways by Rhinovirus 2A Proteases. <i>Journal of Virology</i> , 2017, 91, .	3.4	30
22	Quantitative Characterization of Defective Virus Emergence by Deep Sequencing. <i>Journal of Virology</i> , 2014, 88, 2623-2632.	3.4	29
23	Characterization of vesicular stomatitis virus populations by tunable resistive pulse sensing. <i>Journal of Virological Methods</i> , 2015, 218, 71-76.	2.1	28
24	Spatial-Temporal Patterns of Viral Amplification and Interference Initiated by a Single Infected Cell. <i>Journal of Virology</i> , 2016, 90, 7552-7566.	3.4	28
25	Patterns of Regulation from mRNA and Protein Time Series. <i>Metabolic Engineering</i> , 2000, 2, 210-217.	7.0	27
26	Energy-efficient growth of phage Q? in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2004, 88, 148-156.	3.3	27
27	Toward Antiviral Strategies That Resist Viral Escape. <i>Antimicrobial Agents and Chemotherapy</i> , 2000, 44, 1097-1099.	3.2	26
28	Infection on a chip: a microscale platform for simple and sensitive cell-based virus assays. <i>Biomedical Microdevices</i> , 2009, 11, 565-570.	2.8	25
29	Robust Growth of Human Immunodeficiency Virus Type 1 (HIV-1). <i>Biophysical Journal</i> , 2005, 89, 2210-2221.	0.5	23
30	Neucode Labels for Multiplexed, Absolute Protein Quantification. <i>Analytical Chemistry</i> , 2016, 88, 3295-3303.	6.5	23
31	Formation of peptides in the dry state. <i>Peptides</i> , 2006, 27, 607-610.	2.4	22
32	Quantifying Viral Propagation in Vitro: Toward a Method for Characterization of Complex Phenotypes. <i>Biotechnology Progress</i> , 2001, 17, 1156-1165.	2.6	21
33	A quantitative infection assay for human type I, II, and III interferon antiviral activities. <i>Virology Journal</i> , 2013, 10, 224.	3.4	21
34	Sterol Carrier Protein 2, a Critical Host Factor for Dengue Virus Infection, Alters the Cholesterol Distribution in Mosquito Aag2 Cells. <i>Journal of Medical Entomology</i> , 2015, 52, 1124-1134.	1.8	21
35	Rapid induction and persistence of paracrine-induced cellular antiviral states arrest viral infection spread in A549 cells. <i>Virology</i> , 2016, 496, 59-66.	2.4	21
36	Visualizing infection spread: Dual-color fluorescent reporting of virus-host interactions. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1200-1209.	3.3	20

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37	Virus-like Particles: Measures and Biological Functions. <i>Viruses</i> , 2022, 14, 383.	3.3	20
38	Propagation of viruses on micropatterned host cells. <i>Biotechnology and Bioengineering</i> , 2003, 81, 719-725.	3.3	19
39	Inhibition of infection spread by co-transmitted defective interfering particles. <i>PLoS ONE</i> , 2017, 12, e0184029.	2.5	19
40	Trimetaphosphate Activates Prebiotic Peptide Synthesis across a Wide Range of Temperature and pH. <i>Origins of Life and Evolution of Biospheres</i> , 2018, 48, 277-287.	1.9	19
41	Chemical engineering and virology: Challenges and opportunities at the interface. <i>AIChE Journal</i> , 2007, 53, 2202-2209.	3.6	18
42	A quantitative comet assay: Imaging and analysis of virus plaques formed with a liquid overlay. <i>Journal of Virological Methods</i> , 2007, 139, 100-102.	2.1	17
43	Imaging the propagation of viruses. , 2000, 52, 438-442.		14
44	Quantitative Analysis of a Parasitic Antiviral Strategy. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 1017-1020.	3.2	14
45	Robust kinetics of an RNA virus: Transcription rates are set by genome levels. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1655-1662.	3.3	14
46	Effects of Trimetaphosphate on Abiotic Formation and Hydrolysis of Peptides. <i>Life</i> , 2017, 7, 50.	2.4	14
47	Dynamics of virus spread in the presence of fluid flow. <i>Integrative Biology (United Kingdom)</i> , 2009, 1, 664.	1.3	12
48	Temperature gradients drive radial fluid flow in petri dishes and multiwell plates. <i>AIChE Journal</i> , 2016, 62, 2227-2233.	3.6	12
49	Implications of decoupling the intracellular and extracellular levels in multi-level models of virus growth. <i>Biotechnology and Bioengineering</i> , 2008, 101, 811-820.	3.3	11
50	Quantitative profiling of innate immune activation by viral infection in single cells. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 782-791.	1.3	11
51	A quantitative comet infection assay for influenza virus. <i>Journal of Virological Methods</i> , 2012, 179, 351-358.	2.1	10
52	Genome rearrangement affects RNA virus adaptability on prostate cancer cells. <i>Frontiers in Genetics</i> , 2015, 6, 121.	2.3	9
53	Computational Fitness Landscape for All Gene-Order Permutations of an RNA Virus. <i>PLoS Computational Biology</i> , 2009, 5, e1000283.	3.2	8
54	Toward Molecular Cooperation by De Novo Peptides. <i>Origins of Life and Evolution of Biospheres</i> , 2021, 51, 71-82.	1.9	7

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55	Patterns of virus growth across the diversity of life. Integrative Biology (United Kingdom), 2021, 13, 44-59.	1.3	7
56	Resolving the Rules of Robustness and Resilience in Biology Across Scales. Integrative and Comparative Biology, 2022, 61, 2163-2179.	2.0	7
57	Whole-virus Vaccine Development by Continuous Culture on a Complementing Host. Nature Biotechnology, 1995, 13, 583-586.	17.5	6
58	Dynamic tradeoffs in the raft-mediated entry of human immunodeficiency virus type 1 into cells. Biotechnology and Bioengineering, 2006, 93, 246-257.	3.3	6
59	Mathematical modeling of the lower urinary tract: A review. Neurourology and Urodynamics, 2022, 41, 1305-1315.	1.5	6
60	Antiserum inhibition of propagating viruses. , 1997, 55, 542-546.		5
61	Spatial patterns of protein expression in focal infections of human cytomegalovirus. Biotechnology and Bioengineering, 2006, 93, 1029-1039.	3.3	5
62	Metal recognition by in-vitro selection. Biotechnology and Bioengineering, 1995, 45, 458-462.	3.3	4
63	SIMULATING THE GROWTH OF VIRUSES. , 2000, , 532-43.		4
64	In silico mutagenesis of RNA splicing in HIV-1. Biotechnology and Bioengineering, 2005, 91, 877-893.	3.3	3
65	Kinetics of Asian and African Zika virus lineages over single cycle and multi cycle growth in culture: Gene expression, cell killing, virus production, and mathematical modeling. Biotechnology and Bioengineering, 2021, 118, 4231-4245.	3.3	2
66	Evolvix BEST Names for semantic reproducibility across code2brain interfaces. Annals of the New York Academy of Sciences, 2017, 1387, 124-144.	3.8	1
67	Subsurface oxidation of polyethylene. Journal of Biomedical Materials Research Part B, 1998, 42, 523-529.	3.1	1