John Yin

List of Publications by Year in descending order

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	Resolving the Rules of Robustness and Resilience in Biology Across Scales. Integrative and Comparative Biology, 2022, 61, 2163-2179.	2.0	7
2	Virus-like Particles: Measures and Biological Functions. Viruses, 2022, 14, 383.	3.3	20
3	Mathematical modeling of the lower urinary tract: A review. Neurourology and Urodynamics, 2022, 41, 1305-1315.	1.5	6
4	Toward Molecular Cooperation by De Novo Peptides. Origins of Life and Evolution of Biospheres, 2021, 51, 71-82.	1.9	7
5	Patterns of virus growth across the diversity of life. Integrative Biology (United Kingdom), 2021, 13, 44-59.	1.3	7
6	Kinetics of Asian and African Zika virus lineages over singleâ€cycle and multiâ€cycle growth in culture: Gene expression, cell killing, virus production, and mathematical modeling. Biotechnology and Bioengineering, 2021, 118, 4231-4245.	3.3	2
7	Kinetic Modeling of Virus Growth in Cells. Microbiology and Molecular Biology Reviews, 2018, 82, .	6.6	49
8	Trimetaphosphate Activates Prebiotic Peptide Synthesis across a Wide Range of Temperature and pH. Origins of Life and Evolution of Biospheres, 2018, 48, 277-287.	1.9	19
9	Differential Disruption of Nucleocytoplasmic Trafficking Pathways by Rhinovirus 2A Proteases. Journal of Virology, 2017, 91, .	3.4	30
10	Evolvix BEST Names for semantic reproducibility across code2brain interfaces. Annals of the New York Academy of Sciences, 2017, 1387, 124-144.	3.8	1
11	Quantitative profiling of innate immune activation by viral infection in single cells. Integrative Biology (United Kingdom), 2017, 9, 782-791.	1.3	11
12	Effects of Trimetaphosphate on Abiotic Formation and Hydrolysis of Peptides. Life, 2017, 7, 50.	2.4	14
13	Inhibition of infection spread by co-transmitted defective interfering particles. PLoS ONE, 2017, 12, e0184029.	2.5	19
14	Temperature gradients drive radial fluid flow in petri dishes and multiwell plates. AICHE Journal, 2016, 62, 2227-2233.	3.6	12
15	Rapid induction and persistence of paracrine-induced cellular antiviral states arrest viral infection spread in A549 cells. Virology, 2016, 496, 59-66.	2.4	21
16	Spatial-Temporal Patterns of Viral Amplification and Interference Initiated by a Single Infected Cell. Journal of Virology, 2016, 90, 7552-7566.	3.4	28
17	Neucode Labels for Multiplexed, Absolute Protein Quantification. Analytical Chemistry, 2016, 88, 3295-3303.	6.5	23
18	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

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19	Tools for Single-Cell Kinetic Analysis of Virus-Host Interactions. PLoS ONE, 2016, 11, e0145081.	2.5	35
20	Genome rearrangement affects RNA virus adaptability on prostate cancer cells. Frontiers in Genetics, 2015, 6, 121.	2.3	9
21	Robust kinetics of an RNA virus: Transcription rates are set by genome levels. Biotechnology and Bioengineering, 2015, 112, 1655-1662.	3.3	14
22	Characterization of vesicular stomatitis virus populations by tunable resistive pulse sensing. Journal of Virological Methods, 2015, 218, 71-76.	2.1	28
23	Kinetic Differences and Synergistic Antiviral Effects Between Type I and Type III Interferon Signaling Indicate Pathway Independence. Journal of Interferon and Cytokine Research, 2015, 35, 734-747.	1.2	31
24	Sterol Carrier Protein 2, a Critical Host Factor for Dengue Virus Infection, Alters the Cholesterol Distribution in Mosquito Aag2 Cells. Journal of Medical Entomology, 2015, 52, 1124-1134.	1.8	21
25	Quantitative Characterization of Defective Virus Emergence by Deep Sequencing. Journal of Virology, 2014, 88, 2623-2632.	3.4	29
26	Visualizing infection spread: Dualâ€color fluorescent reporting of virusâ€“host interactions. Biotechnology and Bioengineering, 2014, 111, 1200-1209.	3.3	20
27	A quantitative infection assay for human type I, II, and III interferon antiviral activities. Virology Journal, 2013, 10, 224.	3.4	21
28	A quantitative comet infection assay for influenza virus. Journal of Virological Methods, 2012, 179, 351-358.	2.1	10
29	Kinetics of virus production from single cells. Virology, 2012, 424, 11-17.	2.4	77
30	Population dynamics of an RNA virus and its defective interfering particles in passage cultures. Virology Journal, 2010, 7, 257.	3.4	62
31	Computational Fitness Landscape for All Gene-Order Permutations of an RNA Virus. PLoS Computational Biology, 2009, 5, e1000283.	3.2	8
32	Growth of an RNA virus in single cells reveals a broad fitness distribution. Virology, 2009, 385, 39-46.	2.4	78
33	Infection on a chip: a microscale platform for simple and sensitive cell-based virus assays. Biomedical Microdevices, 2009, 11, 565-570.	2.8	25
34	Stochastic Kinetic Modeling of Vesicular Stomatitis Virus Intracellular Growth. Bulletin of Mathematical Biology, 2009, 71, 1671-1692.	1.9	31
35	Dynamics of virus spread in the presence of fluid flow. Integrative Biology (United Kingdom), 2009, 1, 664.	1.3	12
36	Multiple-hit inhibition of infection by defective interfering particles. Journal of General Virology, 2009, 90, 888-899.	2.9	40

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37	Image-Guided Modeling of Virus Growth and Spread. Bulletin of Mathematical Biology, 2008, 70, 1730-1748.	1.9	33
38	Implications of decoupling the intracellular and extracellular levels in multiâ€level models of virus growth. Biotechnology and Bioengineering, 2008, 101, 811-820.	3.3	11
39	Chemical engineering and virology: Challenges and opportunities at the interface. AIChE Journal, 2007, 53, 2202-2209.	3.6	18
40	A quantitative comet assay: Imaging and analysis of virus plaques formed with a liquid overlay. Journal of Virological Methods, 2007, 139, 100-102.	2.1	17
41	Formation of peptides in the dry state. Peptides, 2006, 27, 607-610.	2.4	22
42	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
43	Spatial patterns of protein expression in focal infections of human cytomegalovirus. Biotechnology and Bioengineering, 2006, 93, 1029-1039.	3.3	5
44	Model-Based Design of Growth-Attenuated Viruses. PLoS Computational Biology, 2006, 2, e116.	3.2	32
45	Dynamics of viral infections: incorporating both the intracellular and extracellular levels. Computers and Chemical Engineering, 2005, 29, 675-686.	3.8	34
46	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
47	In silico mutagenesis of RNA splicing in HIV-1. Biotechnology and Bioengineering, 2005, 91, 877-893.	3.3	3
48	Robust Growth of Human Immunodeficiency Virus Type 1 (HIV-1). Biophysical Journal, 2005, 89, 2210-2221.	0.5	23
49	Quantitative Analysis of a Parasitic Antiviral Strategy. Antimicrobial Agents and Chemotherapy, 2004, 48, 1017-1020.	3.2	14
50	Energy-efficient growth of phage Q? inEscherichia coli. Biotechnology and Bioengineering, 2004, 88, 148-156.	3.3	27
51	Propagation of viruses on micropatterned host cells. Biotechnology and Bioengineering, 2003, 81, 719-725.	3.3	19
52	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
53	Dependence of Epistasis on Environment and Mutation Severity as Revealed by in Silico Mutagenesis of Phage T7. Genetics, 2002, 160, 1273-1281.	2.9	66
54	Quantifying Viral Propagation in Vitro: Toward a Method for Characterization of Complex Phenotypes. Biotechnology Progress, 2001, 17, 1156-1165.	2.6	21

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55	Imaging the propagation of viruses. , 2000, 52, 438-442.		14
56	Patterns of Regulation from mRNA and Protein Time Series. Metabolic Engineering, 2000, 2, 210-217.	7.0	27
57	Toward Antiviral Strategies That Resist Viral Escape. Antimicrobial Agents and Chemotherapy, 2000, 44, 1097-1099.	3.2	26
58	SIMULATING THE GROWTH OF VIRUSES. , 2000, , 532-43.		4
59	Amplification and Spread of Viruses in a Growing Plaque. Journal of Theoretical Biology, 1999, 200, 365-373.	1.7	65
60	Quantitative Intracellular Kinetics of HIV Type 1. AIDS Research and Human Retroviruses, 1999, 15, 273-283.	1.1	101
61	Subsurface oxidation of polyethylene. , 1998, 42, 523-529.		45
62	Subsurface oxidation of polyethylene. Journal of Biomedical Materials Research Part B, 1998, 42, 523-529.	3.1	1
63	Intracellular kinetics of a growing virus: A genetically structured simulation for bacteriophage T7. , 1997, 55, 375-389.		94
64	Antiserum inhibition of propagating viruses. , 1997, 55, 542-546.		5
65	Metal recognition by in-vitro selection. Biotechnology and Bioengineering, 1995, 45, 458-462.	3.3	4
66	Whole-virus Vaccine Development by Continuous Culture on a Complementing Host. Nature Biotechnology, 1995, 13, 583-586.	17.5	6
67	A quantifiable phenotype of viral propagation. Biochemical and Biophysical Research Communications, 1991, 174, 1009-1014.	2.1	46