

Igor M Rouzine

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,892
citations

279701

23
h-index

182361

51
g-index

59
all docs

59
docs citations

59
times ranked

2547
citing authors

#	ARTICLE	IF	CITATIONS
1	The evolutionary origin of the universal distribution of mutation fitness effect. PLoS Computational Biology, 2021, 17, e1008822.	1.5	7
2	An evolution-based high-fidelity method of epistasis measurement: Theory and application to influenza. PLoS Pathogens, 2021, 17, e1009669.	2.1	6
3	Experimental and mathematical insights on the interactions between poliovirus and a defective interfering genome. PLoS Pathogens, 2021, 17, e1009277.	2.1	13
4	An Evolutionary Model of Progression to AIDS. Microorganisms, 2020, 8, 1714.	1.6	6
5	Epistasis detectably alters correlations between genomic sites in a narrow parameter window. PLoS ONE, 2019, 14, e0214036.	1.1	10
6	Evolutionary footprint of epistasis. PLoS Computational Biology, 2018, 14, e1006426.	1.5	18
7	Antigenic evolution of viruses in host populations. PLoS Pathogens, 2018, 14, e1007291.	2.1	26
8	Variability in viral pathogenesis: modeling the dynamic of acute and persistent infections. Current Opinion in Virology, 2017, 23, 120-124.	2.6	6
9	RNA Recombination Enhances Adaptability and Is Required for Virus Spread and Virulence. Cell Host and Microbe, 2016, 19, 493-503.	5.1	133
10	Conflicting Selection Pressures Will Constrain Viral Escape from Interfering Particles: Principles for Designing Resistance-Proof Antivirals. PLoS Computational Biology, 2016, 12, e1004799.	1.5	22
11	An Evolutionary Role for HIV Latency in Enhancing Viral Transmission. Cell, 2015, 160, 1002-1012.	13.5	91
12	A Hardwired HIV Latency Program. Cell, 2015, 160, 990-1001.	13.5	213
13	Fifteen Years Later: Hard and Soft Selection Sweeps Confirm a Large Population Number for HIV In Vivo. PLoS Genetics, 2014, 10, e1004179.	1.5	13
14	The Route of HIV Escape from Immune Response Targeting Multiple Sites Is Determined by the Cost-Benefit Tradeoff of Escape Mutations. PLoS Computational Biology, 2014, 10, e1003878.	1.5	24
15	Stochastic variability in HIV affects viral eradication. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13251-13252.	3.3	40
16	The quantitative theory of within-host viral evolution. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P01009.	0.9	12
17	Reply to "Coadaptive Stability of Interfering Particles with HIV-1 When There Is an Evolutionary Conflict". Journal of Virology, 2013, 87, 9960-9962.	1.5	4
18	Design Requirements for Interfering Particles To Maintain Coadaptive Stability with HIV-1. Journal of Virology, 2013, 87, 2081-2093.	1.5	28

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19	Distribution of fixed beneficial mutations and the rate of adaptation in asexual populations. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4950-4955.	3.3	209
20	Estimate of effective recombination rate and average selection coefficient for HIV in chronic infection. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5661-5666.	3.3	99
21	Model with two types of CTL regulation and experiments on CTL dynamics. Journal of Theoretical Biology, 2010, 263, 369-384.	0.8	13
22	Interpreting the effect of vaccination on steady state infection in animals challenged with Simian immunodeficiency virus. Journal of Theoretical Biology, 2010, 263, 385-392.	0.8	6
23	Multi-site adaptation in the presence of infrequent recombination. Theoretical Population Biology, 2010, 77, 189-204.	0.5	36
24	The traveling-wave approach to asexual evolution: Muller's ratchet and speed of adaptation. Theoretical Population Biology, 2008, 73, 24-46.	0.5	149
25	Rapid Adaptive Amplification of Preexisting Variation in an RNA Virus. Journal of Virology, 2008, 82, 4354-4362.	1.5	19
26	The Stochastic Edge in Adaptive Evolution. Genetics, 2008, 179, 603-620.	1.2	68
27	Increasing Sequence Correlation Limits the Efficiency of Recombination in a Multisite Evolution Model. Molecular Biology and Evolution, 2007, 24, 574-586.	3.5	19
28	Highly fit ancestors of a partly sexual haploid population. Theoretical Population Biology, 2007, 71, 239-250.	0.5	27
29	Two types of cytotoxic lymphocyte regulation explain kinetics of immune response to human immunodeficiency virus. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 666-671.	3.3	24
30	Generals die in friendly fire, or modeling immune response to HIV. Journal of Computational and Applied Mathematics, 2005, 184, 258-274.	1.1	14
31	Evolution of Human Immunodeficiency Virus Under Selection and Weak Recombination. Genetics, 2005, 170, 7-18.	1.2	77
32	The solitary wave of asexual evolution. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 587-592.	3.3	222
33	Link between immune response and parasite synchronization in malaria. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3473-3478.	3.3	41
34	Transition between Stochastic Evolution and Deterministic Evolution in the Presence of Selection: General Theory and Application to Virology. Microbiology and Molecular Biology Reviews, 2001, 65, 151-185.	2.9	155
35	Linkage disequilibrium test implies a large effective population number for HIV in vivo. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10758-10763.	3.3	113
36	Search for the Mechanism of Genetic Variation in the pro Gene of Human Immunodeficiency Virus. Journal of Virology, 1999, 73, 8167-8178.	1.5	40

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37	Statistical properties of the low-temperature conductance peak heights for Corbino disks in the quantum Hall regime. <i>Physical Review B</i> , 1997, 55, 4551-4557.	1.1	13
38	Thermoelectric response of an interacting two-dimensional electron gas in a quantizing magnetic field. <i>Physical Review B</i> , 1997, 55, 2344-2359.	1.1	189
39	Nonuniversal behavior of finite quantum Hall systems as a result of weak macroscopic inhomogeneities. <i>Physical Review B</i> , 1996, 53, 1558-1572.	1.1	42
40	Universal Relation between Longitudinal and Transverse Conductivities in Quantum Hall Effect. <i>Physical Review Letters</i> , 1995, 74, 154-157.	2.9	72
41	Density of states of localized phonons in a pinned Wigner crystal. <i>Physical Review Letters</i> , 1994, 72, 1056-1059.	2.9	14
42	Theory of the fractional quantum Hall effect: The two-phase model. <i>Physical Review B</i> , 1994, 50, 2369-2379.	1.1	115
43	Hall transport in nonuniform two-dimensional conductors. <i>Physical Review B</i> , 1993, 47, 15727-15734.	1.1	16
44	Stochastic Coulomb blockade in a double-dot system. <i>Physical Review B</i> , 1992, 45, 13469-13478.	1.1	170
45	Pinning of a two-dimensional Wigner crystal by charged impurities. <i>Physical Review B</i> , 1992, 46, 3999-4008.	1.1	38
46	Metal to insulator crossover in mesoscopic wires. <i>Physica Scripta</i> , 1992, T42, 122-132.	1.2	1
47	Quantum transport and pinning of a one-dimensional Wigner crystal. <i>Physical Review B</i> , 1992, 45, 8454-8463.	1.1	153
48	Fine structure of hopping conductance fluctuations in finite-size semiconductors. <i>Physical Review B</i> , 1991, 43, 11864-11872.	1.1	5
49	Size effect in the longitudinal hopping conduction of a narrow two-dimensional channel. <i>Physical Review B</i> , 1990, 42, 11203-11207.	1.1	21
50	Distribution function of hopping conductance fluctuations of a short GaAs field effect transistor channel. <i>Solid State Communications</i> , 1989, 72, 169-172.	0.9	11