

Frederick R Adler

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

5,892
citations

81839

39
h-index

79644

73
g-index

103
all docs

103
docs citations

103
times ranked

7535
citing authors

#	ARTICLE	IF	CITATIONS
1	The Uncertain Role of Corticosteroids in the Treatment of COVID-19. <i>JAMA Internal Medicine</i> , 2021, 181, 139.	2.6	3
2	Do mechanisms matter? Comparing cancer treatment strategies across mathematical models and outcome objectives. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 6305-6327.	1.0	8
3	SARS-CoV-2 innate effector associations and viral load in early nasopharyngeal infection. <i>Physiological Reports</i> , 2021, 9, e14761.	0.7	15
4	ATM and ATR Activation Through Crosstalk Between DNA Damage Response Pathways. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 38.	0.9	11
5	Will SARS-CoV-2 Become Just Another Seasonal Coronavirus?. <i>Viruses</i> , 2021, 13, 854.	1.5	11
6	Serial single-cell genomics reveals convergent subclonal evolution of resistance as patients with early-stage breast cancer progress on endocrine plus CDK4/6 therapy. <i>Nature Cancer</i> , 2021, 2, 658-671.	5.7	34
7	How Should Cancer Models Be Constructed?. <i>Cancer Control</i> , 2020, 27, 107327482096200.	0.7	17
8	Evaluation of a five-year predicted survival model for cystic fibrosis in later time periods. <i>Scientific Reports</i> , 2020, 10, 6602.	1.6	11
9	Circulating immune cell phenotype dynamics reflect the strength of tumor-immune cell interactions in patients during immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16072-16082.	3.3	60
10	Citizen science in ecology: a place for humans in nature. <i>Annals of the New York Academy of Sciences</i> , 2020, 1469, 52-64.	1.8	44
11	Is mammography screening beneficial: An individual-based stochastic model for breast cancer incidence and mortality. <i>PLoS Computational Biology</i> , 2020, 16, e1008036.	1.5	4
12	Monitoring the world's bird populations with community science data. <i>Biological Conservation</i> , 2020, 248, 108653.	1.9	46
13	Prospective multicenter randomized patient recruitment and sample collection to enable future measurements of sputum biomarkers of inflammation in an observational study of cystic fibrosis. <i>BMC Medical Research Methodology</i> , 2019, 19, 88.	1.4	8
14	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. <i>Ecological Monographs</i> , 2019, 89, e01370.	2.4	290
15	Modeling factors that regulate cell cooperativity in the zebrafish posterior lateral line primordium. <i>Journal of Theoretical Biology</i> , 2018, 444, 93-99.	0.8	3
16	<i>Arabidopsis</i> mRNA decay landscape arises from specialized RNA decay substrates, decapping-mediated feedback, and redundancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1485-E1494.	3.3	102
17	Using opportunistic citizen science data to estimate avian population trends. <i>Biological Conservation</i> , 2018, 221, 151-159.	1.9	107
18	Transmission of rhinovirus in the Utah BIG-LoVE families: Consequences of age and household structure. <i>PLoS ONE</i> , 2018, 13, e0199388.	1.1	11

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19	Microbial Interactions in the Cystic Fibrosis Airway. <i>Journal of Clinical Microbiology</i> , 2018, 56, .	1.8	45
20	Human Rhinovirus Diversity and Evolution: How Strange the Change from Major to Minor. <i>Journal of Virology</i> , 2017, 91, .	1.5	20
21	Sleep Phase Delay in Cystic Fibrosis. <i>Chest</i> , 2017, 152, 386-393.	0.4	21
22	The relationship between species richness and ecosystem variability is shaped by the mechanism of coexistence. <i>Ecology Letters</i> , 2017, 20, 958-968.	3.0	32
23	A Mathematical Model of Cell Cycle Dysregulation Due to Human Papillomavirus Infection. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 1564-1585.	0.9	7
24	Convergence in leaf size versus twig leaf area scaling: do plants optimize leaf area partitioning?. <i>Annals of Botany</i> , 2017, 119, 447-456.	1.4	30
25	A Mathematical Model for the Macrophage Response to Respiratory Viral Infection in Normal and Asthmatic Conditions. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 1979-1998.	0.9	5
26	The Drivers of Acute and Long-term Care <i>Clostridium difficile</i> Infection Rates: A Retrospective Multilevel Cohort Study of 251 Facilities. <i>Clinical Infectious Diseases</i> , 2017, 65, 1282-1288.	2.9	13
27	The Dynamics of Disease Progression in Cystic Fibrosis. <i>PLoS ONE</i> , 2016, 11, e0156752.	1.1	19
28	Importation, Antibiotics, and <i>Clostridium difficile</i> Infection in Veteran Long-Term Care. <i>Annals of Internal Medicine</i> , 2016, 164, 787.	2.0	23
29	Harnessing Intra-Host Strain Competition to Limit Antibiotic Resistance: Mathematical Model Results. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 1828-1846.	0.9	4
30	Southern right whale (<i>Eubalaena australis</i>) calf mortality at Península Valdés, Argentina: Are harmful algal blooms to blame?. <i>Marine Mammal Science</i> , 2016, 32, 423-451.	0.9	42
31	Loose coupling in the bacterial flagellar motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4755-4760.	3.3	14
32	Cross-immunity between strains explains the dynamical pattern of paramyxoviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13396-13400.	3.3	58
33	Community Surveillance of Respiratory Viruses Among Families in the Utah Better Identification of Germs-Longitudinal Viral Epidemiology (BIG-LoVE) Study. <i>Clinical Infectious Diseases</i> , 2015, 61, 1217-1224.	2.9	193
34	Serial infection of diverse host (<i>Mus</i>) genotypes rapidly impedes pathogen fitness and virulence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141568.	1.2	8
35	Mathematical modelling of chronic acetaminophen metabolism and liver injury. <i>Mathematical Medicine and Biology</i> , 2014, 31, 302-317.	0.8	12
36	Urban ecology: advancing science and society. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 574-581.	1.9	60

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37	Predicting future coexistence in a North American ant community. <i>Ecology and Evolution</i> , 2014, 4, 1804-1819.	0.8	16
38	Long-term models of oxidative stress and mitochondrial damage in insulin resistance progression. <i>Journal of Theoretical Biology</i> , 2014, 340, 238-250.	0.8	5
39	Deconvolution of isotope signals from bundles of multiple hairs. <i>Oecologia</i> , 2014, 175, 781-789.	0.9	29
40	Can antibodies against flies alter malaria transmission in birds by changing vector behavior?. <i>Journal of Theoretical Biology</i> , 2014, 358, 93-101.	0.8	2
41	Identification of Pauses during Formation of HIV-1 Virus Like Particles. <i>Biophysical Journal</i> , 2013, 105, 2262-2272.	0.2	27
42	Models of contrasting strategies of rhinovirus immune manipulation. <i>Journal of Theoretical Biology</i> , 2013, 327, 1-10.	0.8	3
43	Kinetics of Coinfection with Influenza A Virus and <i>Streptococcus pneumoniae</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003238.	2.1	184
44	Quantitative Models of the Dose-Response and Time Course of Inhalational Anthrax in Humans. <i>PLoS Pathogens</i> , 2013, 9, e1003555.	2.1	38
45	Sex-specific effects of an avian malaria parasite on an insect vector: support for the resource limitation hypothesis. <i>Ecology</i> , 2012, 93, 2448-2455.	1.5	14
46	Mathematical modelling the age dependence of Epstein-Barr virus associated infectious mononucleosis. <i>Mathematical Medicine and Biology</i> , 2012, 29, 245-261.	0.8	12
47	Reply:. <i>Hepatology</i> , 2012, 56, 2428-2429.	3.6	0
48	A Time Since Recovery Model with Varying Rates of Loss of Immunity. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 2810-2819.	0.9	11
49	Mathematical modeling of liver injury and dysfunction after acetaminophen overdose: Early discrimination between survival and death. <i>Hepatology</i> , 2012, 56, 727-734.	3.6	57
50	Fast food in ant communities: how competing species find resources. <i>Oecologia</i> , 2011, 167, 229-240.	0.9	15
51	Mathematical model of a three-stage innate immune response to a pneumococcal lung infection. <i>Journal of Theoretical Biology</i> , 2011, 276, 106-116.	0.8	104
52	The effects of intraspecific density dependence on species richness and species abundance distributions. <i>Theoretical Ecology</i> , 2011, 4, 153-162.	0.4	2
53	Alternating Host Cell Tropism Shapes the Persistence, Evolution and Coexistence of Epstein-Barr Virus Infections in Human. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 1754-1773.	0.9	8
54	Effect of 1918 PB1-F2 Expression on Influenza A Virus Infection Kinetics. <i>PLoS Computational Biology</i> , 2011, 7, e1001081.	1.5	67

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55	An accurate two-phase approximate solution to an acute viral infection model. <i>Journal of Mathematical Biology</i> , 2010, 60, 711-726.	0.8	75
56	A Continuous-State Coalescent and the Impact of Weak Selection on the Structure of Gene Genealogies. <i>Molecular Biology and Evolution</i> , 2010, 27, 1162-1172.	3.5	51
57	Gene Genealogies Strongly Distorted by Weakly Interfering Mutations in Constant Environments. <i>Genetics</i> , 2010, 184, 529-545.	1.2	62
58	The role of age structure in the persistence of a chronic pathogen in a fluctuating population. <i>Journal of Biological Dynamics</i> , 2009, 3, 224-234.	0.8	3
59	Lung Transplantation for Cystic Fibrosis. <i>Proceedings of the American Thoracic Society</i> , 2009, 6, 619-633.	3.5	65
60	To fight or not to fight: context-dependent interspecific aggression in competing ants. <i>Animal Behaviour</i> , 2009, 77, 297-305.	0.8	80
61	Testing the "rare pit" hypothesis for xylem cavitation resistance in three species of <i>Acer</i> . <i>New Phytologist</i> , 2009, 182, 664-674.	3.5	153
62	How Host Population Dynamics Translate into Time-Lagged Prevalence: An Investigation of Sin Nombre Virus in Deer Mice. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 236-252.	0.9	46
63	The Role of Heterogeneity in the Persistence and Prevalence of Sin Nombre Virus in Deer Mice. <i>American Naturalist</i> , 2008, 172, 855-867.	1.0	18
64	Lung Transplantation and Survival in Children with Cystic Fibrosis. <i>New England Journal of Medicine</i> , 2008, 359, e6.	13.9	4
65	Lung Transplantation and Survival in Children with Cystic Fibrosis. <i>New England Journal of Medicine</i> , 2007, 357, 2143-2152.	13.9	186
66	STOCHASTICITY, COMPLEX SPATIAL STRUCTURE, AND THE FEASIBILITY OF THE SHIFTING BALANCE THEORY. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 448-459.	1.1	0
67	Commentary on Calcagno et al. (2006): Coexistence in a metacommunity: the competition-colonization trade-off is not dead. <i>Ecology Letters</i> , 2006, 9, 907-909.	3.0	3
68	When do localized natural enemies increase species richness?. <i>Ecology Letters</i> , 2005, 8, 438-447.	3.0	89
69	Use of Lung Transplantation Survival Models to Refine Patient Selection in Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 171, 1053-1059.	2.5	127
70	Interaction between the X chromosome and an autosome regulates size sexual dimorphism in Portuguese Water Dogs. <i>Genome Research</i> , 2005, 15, 1820-1824.	2.4	69
71	Water transport in plants obeys Murray's law. <i>Nature</i> , 2003, 421, 939-942.	13.7	365
72	HOW VIRULENT SHOULD A PARASITE BE TO ITS VECTOR?. <i>Ecology</i> , 2003, 84, 2568-2574.	1.5	43

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73	Optimization, Conflict, and Nonoverlapping Foraging Ranges in Ants. <i>American Naturalist</i> , 2003, 162, 529-543.	1.0	68
74	Genetic basis for systems of skeletal quantitative traits: Principal component analysis of the canid skeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9930-9935.	3.3	151
75	Value of Ophthalmologic Examination in Diagnosing Temporal Arteritis. <i>JAMA - Journal of the American Medical Association</i> , 2002, 287, 1528.	3.8	10
76	Time's crooked arrow: optimal foraging and rate-biased time perception. <i>Animal Behaviour</i> , 2002, 64, 589-597.	0.8	14
77	Predictive 5-Year Survivorship Model of Cystic Fibrosis. <i>American Journal of Epidemiology</i> , 2001, 153, 345-352.	1.6	647
78	How to make a Biological Switch. <i>Journal of Theoretical Biology</i> , 2000, 203, 117-133.	0.8	274
79	GENETIC AND PHYLOGENETIC CONSEQUENCES OF ISLAND BIOGEOGRAPHY. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 387-396.	1.1	102
80	IS SPACE NECESSARY? INTERFERENCE COMPETITION AND LIMITS TO BIODIVERSITY. <i>Ecology</i> , 2000, 81, 3226-3232.	1.5	96
81	Is Space Necessary? Interference Competition and Limits to Biodiversity. <i>Ecology</i> , 2000, 81, 3226.	1.5	63
82	The Balance of Terror: An Alternative Mechanism for Competitive Tradeoffs and Its Implications for Invading Species. <i>American Naturalist</i> , 1999, 154, 497-509.	1.0	26
83	Evolution of Virulence: a Unified Framework for Coinfection and Superinfection. <i>Journal of Theoretical Biology</i> , 1998, 195, 293-313.	0.8	174
84	Induced resistance to herbivores and the information content of early season attack. <i>Oecologia</i> , 1996, 107, 379-385.	0.9	43
85	Stumped by Trees? A Generalized Null Model for Patterns of Organismal Diversity. <i>American Naturalist</i> , 1995, 145, 329-342.	1.0	64
86	Mechanisms of pollen deposition by insect pollinators. <i>Evolutionary Ecology</i> , 1995, 9, 304-317.	0.5	40
87	Defended Fortresses or Moving Targets? Another Model of Inducible Defenses Inspired by Military Metaphors. <i>American Naturalist</i> , 1994, 144, 813-832.	1.0	169
88	A General Test for Interaction Modification. <i>Ecology</i> , 1994, 75, 1552-1559.	1.5	39
89	Construction of Multidimensional Clustered Patterns. <i>Ecology</i> , 1994, 75, 1289-1298.	1.5	23
90	Migration Alone Can Produce Persistence of Host-Parasitoid Models. <i>American Naturalist</i> , 1993, 141, 642-650.	1.0	72

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91	Information Collection and Spread by Networks of Patrolling Ants. <i>American Naturalist</i> , 1992, 140, 373-400.	1.0	102
92	The effects of averaging on the basic reproduction ratio. <i>Mathematical Biosciences</i> , 1992, 111, 89-98.	0.9	39
93	The dynamics of simultaneous infections with altered susceptibilities. <i>Theoretical Population Biology</i> , 1991, 40, 369-410.	0.5	29
94	Inducible defenses, phenotypic variability and biotic environments. <i>Trends in Ecology and Evolution</i> , 1990, 5, 407-410.	4.2	118
95	Diffuse coevolution in plant-herbivore communities. <i>Theoretical Population Biology</i> , 1990, 37, 171-191.	0.5	34
96	Water transport in plants obeys Murray's law. , 0, .		1