

Ariel B Lindner

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,574
citations

257450

24
h-index

168389

53
g-index

81
all docs

81
docs citations

81
times ranked

4872
citing authors

#	ARTICLE	IF	CITATIONS
1	Organization of Intracellular Reactions with Rationally Designed RNA Assemblies. <i>Science</i> , 2011, 333, 470-474.	12.6	574
2	Asymmetric segregation of protein aggregates is associated with cellular aging and rejuvenation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3076-3081.	7.1	461
3	Reassembly of shattered chromosomes in <i>Deinococcus radiodurans</i> . <i>Nature</i> , 2006, 443, 569-573.	27.8	398
4	Recombination and Replication in DNA Repair of Heavily Irradiated <i>Deinococcus radiodurans</i> . <i>Cell</i> , 2009, 136, 1044-1055.	28.9	220
5	Direct Visualization of Horizontal Gene Transfer. <i>Science</i> , 2008, 319, 1533-1536.	12.6	189
6	Protein Posttranslational Modifications: Roles in Aging and Age-Related Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-19.	4.0	157
7	Localization of Protein Aggregation in <i>Escherichia coli</i> Is Governed by Diffusion and Nucleoid Macromolecular Crowding Effect. <i>PLoS Computational Biology</i> , 2013, 9, e1003038.	3.2	113
8	The Good, the Bad, and the Ugly of ROS: New Insights on Aging and Aging-Related Diseases from Eukaryotic and Prokaryotic Model Organisms. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-23.	4.0	102
9	Protein aggregation as a paradigm of aging. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 980-996.	2.4	92
10	Dissecting the Genetic Components of Adaptation of <i>Escherichia coli</i> to the Mouse Gut. <i>PLoS Genetics</i> , 2008, 4, e2.	3.5	89
11	Genetic information transfer promotes cooperation in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11103-11108.	7.1	86
12	Systematic Detection of Amino Acid Substitutions in Proteomes Reveals Mechanistic Basis of Ribosome Errors and Selection for Translation Fidelity. <i>Molecular Cell</i> , 2019, 75, 427-441.e5.	9.7	84
13	Microcontact Printing of Living Bacteria Arrays with Cellular Resolution. <i>Nano Letters</i> , 2007, 7, 2068-2072.	9.1	79
14	A synthetic growth switch based on controlled expression of RNA polymerase. <i>Molecular Systems Biology</i> , 2015, 11, 840.	7.2	76
15	Pre- ϵ dispositions and epigenetic inheritance in the <i>Escherichia coli</i> lactose operon bistable switch. <i>Molecular Systems Biology</i> , 2010, 6, 357.	7.2	64
16	Designing and using RNA scaffolds to assemble proteins in vivo. <i>Nature Protocols</i> , 2012, 7, 1797-1807.	12.0	57
17	Contours of citizen science: a vignette study. <i>Royal Society Open Science</i> , 2021, 8, 202108.	2.4	56
18	Quantitative Detection of Protein Arrays. <i>Analytical Chemistry</i> , 2003, 75, 1436-1441.	6.5	54

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19	Mutations in two global regulators lower individual mortality in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2008, 67, 2-14.	2.5	49
20	Conformational changes affect binding and catalysis by ester-hydrolysing antibodies 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1999, 285, 421-430.	4.2	44
21	Direct assessment in bacteria of prionoid propagation and phenotype selection by $\text{Hsp}70$ chaperone. <i>Molecular Microbiology</i> , 2014, 91, 1070-1087.	2.5	41
22	Construction of a multiple fluorescence labelling system for use in co-invasion studies of <i>Listeria monocytogenes</i> . <i>BMC Microbiology</i> , 2006, 6, 86.	3.3	38
23	Silencing of Antibiotic Resistance in <i>E. coli</i> with Engineered Phage Bearing Small Regulatory RNAs. <i>ACS Synthetic Biology</i> , 2014, 3, 1003-1006.	3.8	31
24	Pre-Disposition and Epigenetics Govern Variation in Bacterial Survival upon Stress. <i>PLoS Genetics</i> , 2012, 8, e1003148.	3.5	29
25	Temporal scaling of aging as an adaptive strategy of <i>Escherichia coli</i> . <i>Science Advances</i> , 2019, 5, eaaw2069.	10.3	28
26	Loop-Mediated Isothermal Amplification Detection of SARS-CoV-2 and Myriad Other Applications. <i>Journal of Biomolecular Techniques</i> , 2021, 32, 228-275.	1.5	28
27	Indirect Fitness Benefits Enable the Spread of Host Genes Promoting Costly Transfer of Beneficial Plasmids. <i>PLoS Biology</i> , 2016, 14, e1002478.	5.6	25
28	A microfluidic device for inferring metabolic landscapes in yeast monolayer colonies. <i>ELife</i> , 2019, 8, .	6.0	25
29	Efficient and Selective P-nitrophenyl-ester-hydrolyzing Antibodies Elicited by a P-nitrobenzyl Phosphonate Hapten. <i>FEBS Journal</i> , 1997, 244, 619-626.	0.2	23
30	Mobile genetic elements are involved in bacterial sociality. <i>Mobile Genetic Elements</i> , 2015, 5, 7-11.	1.8	23
31	Expression and characterization of recombinant single-chain Fv and Fv fragments derived from a set of catalytic antibodies. <i>Molecular Immunology</i> , 1997, 34, 891-906.	2.2	22
32	Growing Yeast into Cylindrical Colonies. <i>Biophysical Journal</i> , 2014, 106, 2214-2221.	0.5	22
33	Evidence for an evolutionary antagonism between Mrr and Type III modification systems. <i>Nucleic Acids Research</i> , 2011, 39, 5991-6001.	14.5	21
34	Esterolytic Antibodies as Mechanistic and Structural Models of Hydrolases—A Quantitative Analysis. <i>Journal of Molecular Biology</i> , 2002, 320, 559-572.	4.2	14
35	Two stochastic processes shape diverse senescence patterns in a single-cell organism. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 847-857.	2.3	12
36	Emergence of Variability in Isogenic <i>Escherichia coli</i> Populations Infected by a Filamentous Virus. <i>PLoS ONE</i> , 2010, 5, e11823.	2.5	11

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37	Remote Digital Psychiatry for Mobile Mental Health Assessment and Therapy: MindLogger Platform Development Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e22369.	4.3	10
38	Tracking of cells in a sequence of images using a low-dimension image representation. , 2008, , .		9
39	Nanoscale Probing the Kinetics of Oriented Bacterial Cell Growth Using Atomic Force Microscopy. <i>Small</i> , 2014, 10, 3018-3025.	10.0	9
40	Transmission of internal rotations: correlated, uncorrelated, and localized disrotatory rotations in propeller chains. <i>Journal of Organic Chemistry</i> , 1993, 58, 6662-6670.	3.2	8
41	Ratiometric quorum sensing governs the trade-off between bacterial vertical and horizontal antibiotic resistance propagation. <i>PLoS Biology</i> , 2020, 18, e3000814.	5.6	8
42	Low-cost anti-mycobacterial drug discovery using engineered <i>E. coli</i> . <i>Nature Communications</i> , 2022, 13, .	12.8	8
43	Engineering gene overlaps to sustain genetic constructs in vivo. <i>PLoS Computational Biology</i> , 2021, 17, e1009475.	3.2	7
44	Shape matters: Lifecycle of cooperative patches promotes cooperation in bulky populations. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 788-802.	2.3	6
45	Time-lapse microscopy and image analysis of <i>Escherichia coli</i> cells in mother machines. <i>Methods in Microbiology</i> , 2016, 43, 49-68.	0.8	6
46	<i>In Situ</i> Characterization of Mycobacterial Growth Inhibition by Lytic Enzymes Expressed in Vectorized <i>E. coli</i> . <i>ACS Synthetic Biology</i> , 2014, 3, 932-934.	3.8	5
47	Phage-mediated Delivery of Targeted sRNA Constructs to Knock Down Gene Expression in <i>E. coli</i> . <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	5
48	A survival model for course-course interactions in a Massive Open Online Course platform. <i>PLoS ONE</i> , 2021, 16, e0245718.	2.5	5
49	Empowering grassroots innovation to accelerate biomedical research. <i>PLoS Biology</i> , 2021, 19, e3001349.	5.6	5
50	Artificial modulation of cell width significantly affects the division time of <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2020, 10, 17847.	3.3	4
51	The smell of us – crowdsourcing human body odor evaluation. <i>Human Computation</i> , 2016, 3, 161-179.	1.4	2
52	Catalytic Antibodies as Mechanistic and Structural Models of Hydrolytic Enzymes. , 2005, , 418-453.		1
53	Ten simple rules for open human health research. <i>PLoS Computational Biology</i> , 2020, 16, e1007846.	3.2	1
54	Corona Detective: a simple, scalable, and robust SARS-CoV-2 detection method based on reverse transcription loop-mediated isothermal amplification. <i>Journal of Biomolecular Techniques</i> , 2021, 32, 89-97.	1.5	1

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55	Bacteria can be selected to help beneficial plasmids spread. PLoS Biology, 2021, 19, e3001489.	5.6	1
56	Shape matters in cooperation. , 2016, , .		0
57	Observing Nutrient Gradients, Gene Expression and Growth Variation Using the "Yeast Machine" Microfluidic Device. Bio-protocol, 2020, 10, e3668.	0.4	0