

Ron Milo

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

22,808
citations

26630

56
h-index

24982

109
g-index

126
all docs

126
docs citations

126
times ranked

30024
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of natalizumab treatment on the rate of No Evidence of Disease Activity in young adults with multiple sclerosis in relation to pubertal stage. <i>Journal of the Neurological Sciences</i> , 2022, 432, 120074.	0.6	3
2	Protection following BNT162b2 booster in adolescents substantially exceeds that of a fresh 2-dose vaccine. <i>Nature Communications</i> , 2022, 13, 1971.	12.8	10
3	Estimating disease severity of Omicron and Delta SARS-CoV-2 infections. <i>Nature Reviews Immunology</i> , 2022, 22, 267-269.	22.7	138
4	Humoral and Cellular Immune Responses to SARS-CoV-2 mRNA Vaccination in Patients with Multiple Sclerosis: An Israeli Multi-Center Experience Following 3 Vaccine Doses. <i>Frontiers in Immunology</i> , 2022, 13, 868915.	4.8	32
5	Association between cervical disc disease and lesions of multiple sclerosis. <i>Neuroradiology Journal</i> , 2021, 34, 200-204.	1.2	1
6	The distribution of cellular turnover in the human body. <i>Nature Medicine</i> , 2021, 27, 45-48.	30.7	205
7	The survival and function of IL-10-producing regulatory B cells are negatively controlled by SLAMF5. <i>Nature Communications</i> , 2021, 12, 1893.	12.8	23
8	Approaches and challenges in the diagnosis and management of secondary progressive multiple sclerosis: A Central Eastern European perspective from healthcare professionals. <i>Multiple Sclerosis and Related Disorders</i> , 2021, 50, 102778.	2.0	7
9	Photovoltaic-driven microbial protein production can use land and sunlight more efficiently than conventional crops. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	68
10	The total number and mass of SARS-CoV-2 virions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	187
11	The development and use of the European academy of neurology guideline on palliative care in advanced progressive multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 2021, 429, 118026.	0.6	0
12	The temporal and causal relationship between inflammation and neurodegeneration in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2020, 26, 876-886.	3.0	41
13	Global human-made mass exceeds all living biomass. <i>Nature</i> , 2020, 588, 442-444.	27.8	344
14	Familial Creutzfeldtâ€“Jakob disease homozygous to the E200K mutation: clinical characteristics and disease course. <i>Journal of Neurology</i> , 2020, 267, 2455-2458.	3.6	8
15	EAN Guideline on Palliative Care of People with Severe, Progressive Multiple Sclerosis. <i>Journal of Palliative Medicine</i> , 2020, 23, 1426-1443.	1.1	13
16	Palliative care in multiple sclerosis: European guideline. <i>Multiple Sclerosis Journal</i> , 2020, 26, 1009-1011.	3.0	2
17	Ofatumumab â€“ A Potential Subcutaneous B-cell Therapy for Relapsing Multiple Sclerosis. <i>European Neurological Review</i> , 2020, 15, 27.	0.5	3
18	SARS-CoV-2 (COVID-19) by the numbers. <i>ELife</i> , 2020, 9, .	6.0	826

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19	Revisiting Trade-offs between Rubisco Kinetic Parameters. <i>Biochemistry</i> , 2019, 58, 3365-3376.	2.5	142
20	Immunological Aspects of Approved MS Therapeutics. <i>Frontiers in Immunology</i> , 2019, 10, 1564.	4.8	117
21	Therapies for multiple sclerosis targeting B cells. <i>Croatian Medical Journal</i> , 2019, 60, 87-98.	0.7	44
22	JC virus identified in a patient with persistent and severe West Nile virus disease. <i>Journal of NeuroVirology</i> , 2019, 25, 608-611.	2.1	1
23	The global mass and average rate of rubisco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4738-4743.	7.1	154
24	Towards a quantitative view of the global ubiquity of biofilms. <i>Nature Reviews Microbiology</i> , 2019, 17, 199-200.	28.6	20
25	B Cell-based Therapies for Multiple Sclerosis. <i>RSC Drug Discovery Series</i> , 2019, , 134-169.	0.3	1
26	A model for "sustainable" US beef production. <i>Nature Ecology and Evolution</i> , 2018, 2, 81-85.	7.8	23
27	Mycosis fungoides " A cutaneous lymphoproliferative disorder in a patient treated with fingolimod for multiple sclerosis. <i>Journal of Clinical Neuroscience</i> , 2018, 48, 102-103.	1.5	12
28	The biomass distribution on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6506-6511.	7.1	2,102
29	A retrospective analysis of the development of seizure frequency in patients with seizures during a period of military conflict. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2018, 61, 119-121.	2.0	2
30	Progressive multifocal leukoencephalopathy in a patient with chronic lymphocytic leukemia after immunosuppressive treatment. <i>Neurology and Clinical Neuroscience</i> , 2017, 5, 29-31.	0.4	0
31	Daclizumab for the treatment of adults with relapsing forms of multiple sclerosis. <i>Expert Review of Clinical Pharmacology</i> , 2017, 10, 1037-1047.	3.1	3
32	Design principles of autocatalytic cycles constrain enzyme kinetics and force low substrate saturation at flux branch points. <i>ELife</i> , 2017, 6, .	6.0	70
33	Mutation in West Nile Virus Structural Protein prM during Human Infection. <i>Emerging Infectious Diseases</i> , 2016, 22, 1647-1649.	4.3	4
34	Spotlight on daclizumab: its potential in the treatment of multiple sclerosis. <i>Degenerative Neurological and Neuromuscular Disease</i> , 2016, Volume 6, 95-109.	1.3	2
35	Pyruvate Formate-Lyase Enables Efficient Growth of <i>Escherichia coli</i> on Acetate and Formate. <i>Biochemistry</i> , 2016, 55, 2423-2426.	2.5	57
36	Sugar Synthesis from CO ₂ in <i>Escherichia coli</i> . <i>Cell</i> , 2016, 166, 115-125.	28.9	272

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37	Are We Really Vastly Outnumbered? Revisiting the Ratio of Bacterial to Host Cells in Humans. <i>Cell</i> , 2016, 164, 337-340.	28.9	1,463
38	Global characterization of in vivo enzyme catalytic rates and their correspondence to in vitro <i>in vitro</i> measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3401-3406.	7.1	212
39	SnapShot: Timescales in Cell Biology. <i>Cell</i> , 2016, 164, 1302-1302.e1.	28.9	173
40	Therapeutic strategies targeting B-cells in multiple sclerosis. <i>Autoimmunity Reviews</i> , 2016, 15, 714-718.	5.8	65
41	A Minimalistic Resource Allocation Model to Explain Ubiquitous Increase in Protein Expression with Growth Rate. <i>PLoS ONE</i> , 2016, 11, e0153344.	2.5	18
42	Effectiveness of multiple sclerosis treatment with current immunomodulatory drugs. <i>Expert Opinion on Pharmacotherapy</i> , 2015, 16, 659-673.	1.8	21
43	Reply to Tichenor: Proposed update to beef greenhouse gas footprint is numerically questionable and well within current uncertainty bounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E822-E823.	7.1	0
44	The Moderately Efficient Enzyme: Futile Encounters and Enzyme Floppiness. <i>Biochemistry</i> , 2015, 54, 4969-4977.	2.5	89
45	Role of a Novel Human Leukocyte Antigen-DQA1*01:02;DRB1*15:01 Mixed Isotype Heterodimer in the Pathogenesis of <i>Humanized</i> Multiple Sclerosis-like Disease. <i>Journal of Biological Chemistry</i> , 2015, 290, 15260-15278.	3.4	7
46	Noise in gene expression is coupled to growth rate. <i>Genome Research</i> , 2015, 25, 1893-1902.	5.5	83
47	An In Vivo Metabolic Approach for Deciphering the Product Specificity of Glycerate Kinase Proves that Both <i>E. coli</i> 's Glycerate Kinases Generate 2-Phosphoglycerate. <i>PLoS ONE</i> , 2015, 10, e0122957.	2.5	15
48	The efficacy and safety of daclizumab and its potential role in the treatment of multiple sclerosis. <i>Therapeutic Advances in Neurological Disorders</i> , 2014, 7, 7-21.	3.5	34
49	Noise Genetics: Inferring Protein Function by Correlating Phenotype with Protein Levels and Localization in Individual Human Cells. <i>PLoS Genetics</i> , 2014, 10, e1004176.	3.5	20
50	Pathway Thermodynamics Highlights Kinetic Obstacles in Central Metabolism. <i>PLoS Computational Biology</i> , 2014, 10, e1003483.	3.2	249
51	Visual account of protein investment in cellular functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8488-8493.	7.1	304
52	Revised diagnostic criteria of multiple sclerosis. <i>Autoimmunity Reviews</i> , 2014, 13, 518-524.	5.8	238
53	The quantified cell. <i>Molecular Biology of the Cell</i> , 2014, 25, 3497-3500.	2.1	44
54	Reply to Metson et al.: The importance of phosphorus perturbations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4908-E4908.	7.1	0

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55	Land, irrigation water, greenhouse gas, and reactive nitrogen burdens of meat, eggs, and dairy production in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11996-12001.	7.1	375
56	A note on the kinetics of enzyme action: A decomposition that highlights thermodynamic effects. <i>FEBS Letters</i> , 2013, 587, 2772-2777.	2.8	108
57	Design and analysis of metabolic pathways supporting formatotrophic growth for electricity-dependent cultivation of microbes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 1039-1047.	1.0	150
58	Quantifying Translational Coupling in <i>E. coli</i> Synthetic Operons Using RBS Modulation and Fluorescent Reporters. <i>ACS Synthetic Biology</i> , 2013, 2, 327-336.	3.8	100
59	EcoTime—An intuitive quantitative sustainability indicator utilizing a time metric. <i>Ecological Indicators</i> , 2013, 24, 240-245.	6.3	5
60	What is the total number of protein molecules per cell volume? A call to rethink some published values. <i>BioEssays</i> , 2013, 35, 1050-1055.	2.5	477
61	Consistent Estimation of Gibbs Energy Using Component Contributions. <i>PLoS Computational Biology</i> , 2013, 9, e1003098.	3.2	231
62	Spanning high-dimensional expression space using ribosome-binding site combinatorics. <i>Nucleic Acids Research</i> , 2013, 41, e98-e98.	14.5	165
63	Promoters maintain their relative activity levels under different growth conditions. <i>Molecular Systems Biology</i> , 2013, 9, 701.	7.2	181
64	Glycolytic strategy as a tradeoff between energy yield and protein cost. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10039-10044.	7.1	446
65	Steady-State Metabolite Concentrations Reflect a Balance between Maximizing Enzyme Efficiency and Minimizing Total Metabolite Load. <i>PLoS ONE</i> , 2013, 8, e75370.	2.5	67
66	Prediction of Microbial Growth Rate versus Biomass Yield by a Metabolic Network with Kinetic Parameters. <i>PLoS Computational Biology</i> , 2012, 8, e1002575.	3.2	148
67	An integrated open framework for thermodynamics of reactions that combines accuracy and coverage. <i>Bioinformatics</i> , 2012, 28, 2037-2044.	4.1	108
68	eQuilibrator—the biochemical thermodynamics calculator. <i>Nucleic Acids Research</i> , 2012, 40, D770-D775.	14.5	483
69	Achieving Diversity in the Face of Constraints: Lessons from Metabolism. <i>Science</i> , 2012, 336, 1663-1667.	12.6	61
70	Rethinking glycolysis: on the biochemical logic of metabolic pathways. <i>Nature Chemical Biology</i> , 2012, 8, 509-517.	8.0	211
71	Thermodynamic constraints shape the structure of carbon fixation pathways. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1646-1659.	1.0	126
72	A proof for loop-law constraints in stoichiometric metabolic networks. <i>BMC Systems Biology</i> , 2012, 6, 140.	3.0	21

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73	A survey of carbon fixation pathways through a quantitative lens. <i>Journal of Experimental Botany</i> , 2012, 63, 2325-2342.	4.8	212
74	Efficiency in Evolutionary Trade-Offs. <i>Science</i> , 2012, 336, 1114-1115.	12.6	22
75	Dynamic Proteomics of Human Protein Level and Localization across the Cell Cycle. <i>PLoS ONE</i> , 2012, 7, e48722.	2.5	17
76	Abstract P282: First-ever Ischemic Stroke in the Very Elderly: Trends, Characteristics and Outcome in a National Registry. <i>Circulation</i> , 2012, 125, .	1.6	0
77	Cell-to-cell spread of HIV permits ongoing replication despite antiretroviral therapy. <i>Nature</i> , 2011, 477, 95-98.	27.8	502
78	The Moderately Efficient Enzyme: Evolutionary and Physicochemical Trends Shaping Enzyme Parameters. <i>Biochemistry</i> , 2011, 50, 4402-4410.	2.5	810
79	Reconstructing a puzzle: existence of cyanophages containing both photosystemâ€” and photosystemâ€” gene suites inferred from oceanic metagenomic datasets. <i>Environmental Microbiology</i> , 2011, 13, 24-32.	3.8	46
80	Combination therapy in multiple sclerosis. <i>Journal of Neuroimmunology</i> , 2011, 231, 23-31.	2.3	25
81	The increasing incidence and prevalence of female multiple sclerosisâ€”A critical analysis of potential environmental factors. <i>Autoimmunity Reviews</i> , 2011, 10, 495-502.	5.8	174
82	Tau and 14-3-3 of genetic and sporadic Creutzfeldtâ€”Jakob disease patients in Israel. <i>Journal of Neurology</i> , 2011, 258, 255-262.	3.6	32
83	Robust Control of PEP Formation Rate in the Carbon Fixation Pathway of C4 Plants by a Bi-functional Enzyme. <i>BMC Systems Biology</i> , 2011, 5, 171.	3.0	10
84	Multiple sclerosis and chronic cerebrospinal venous insufficiency: a critical review. <i>Therapeutic Advances in Neurological Disorders</i> , 2011, 4, 231-235.	3.5	5
85	Hydrophobicity and Charge Shape Cellular Metabolite Concentrations. <i>PLoS Computational Biology</i> , 2011, 7, e1002166.	3.2	65
86	Multiple sclerosis: Geoeidemiology, genetics and the environment. <i>Autoimmunity Reviews</i> , 2010, 9, A387-A394.	5.8	521
87	Cross-species analysis traces adaptation of Rubisco toward optimality in a low-dimensional landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3475-3480.	7.1	249
88	BioNumbersâ€”the database of key numbers in molecular and cell biology. <i>Nucleic Acids Research</i> , 2010, 38, D750-D753.	14.5	859
89	Translational Research in Neurology and Neuroscience 2010. <i>Archives of Neurology</i> , 2010, 67, 1307-15.	4.5	11
90	Central Carbon Metabolism as a Minimal Biochemical Walk between Precursors for Biomass and Energy. <i>Molecular Cell</i> , 2010, 39, 809-820.	9.7	208

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91	SnapShot: Key Numbers in Biology. <i>Cell</i> , 2010, 141, 1262-1262.e1.	28.9	206
92	Design and analysis of synthetic carbon fixation pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8889-8894.	7.1	402
93	Protein Dynamics in Individual Human Cells: Experiment and Theory. <i>PLoS ONE</i> , 2009, 4, e4901.	2.5	54
94	Local corticosteroid treatment for carpal tunnel syndrome: A 6-month clinical and electrophysiological follow-up study. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2009, 22, 59-64.	1.1	11
95	A feeling for the numbers in biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21465-21471.	7.1	100
96	What governs the reaction center excitation wavelength of photosystems I and II?. <i>Photosynthesis Research</i> , 2009, 101, 59-67.	2.9	23
97	Weizmann Young PI Forum: The Power of Peer Support. <i>Molecular Cell</i> , 2009, 36, 913-915.	9.7	5
98	HSP90 affects the expression of genetic variation and developmental stability in quantitative traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2963-2968.	7.1	167
99	A paxillin tyrosine phosphorylation switch regulates the assembly and form of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2007, 120, 137-148.	2.0	402
100	Input-output robustness in simple bacterial signaling systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19931-19935.	7.1	170
101	The relationship between evolutionary and physiological variation in hemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16998-17003.	7.1	37
102	Dynamic proteomics in mammalian cells: capabilities and challenges. <i>Molecular BioSystems</i> , 2007, 3, 542.	2.9	1
103	A central role for Necl4 (SynCAM4) in Schwann cell-axon interaction and myelination. <i>Nature Neuroscience</i> , 2007, 10, 861-869.	14.8	178
104	Generation of a fluorescently labeled endogenous protein library in living human cells. <i>Nature Protocols</i> , 2007, 2, 1515-1527.	12.0	62
105	Dynamic proteomics in individual human cells uncovers widespread cell-cycle dependence of nuclear proteins. <i>Nature Methods</i> , 2006, 3, 525-531.	19.0	125
106	Variability and memory of protein levels in human cells. <i>Nature</i> , 2006, 444, 643-646.	27.8	526
107	RECURRING HARMONIC WALKS AND NETWORK MOTIFS IN WESTERN MUSIC. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2006, 09, 121-132.	1.4	5
108	Oscillations and variability in the p53 system. <i>Molecular Systems Biology</i> , 2006, 2, 2006.0033.	7.2	539

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109	Coarse-graining and self-dissimilarity of complex networks. <i>Physical Review E</i> , 2005, 71, 016127.	2.1	92
110	Network motifs in integrated cellular networks of transcription-regulation and protein-protein interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5934-5939.	7.1	479
111	Superfamilies of Evolved and Designed Networks. <i>Science</i> , 2004, 303, 1538-1542.	12.6	1,182
112	Network motifs in the transcriptional regulation network of <i>Escherichia coli</i> . <i>Nature Genetics</i> , 2002, 31, 64-68.	21.4	2,603
113	Glatiramer Acetate or Interferon- β for Multiple Sclerosis?. <i>CNS Drugs</i> , 1999, 11, 289-306.	5.9	11
114	Effect of Propranolol and IFN- β on the Induction of MHC Class II Expression and Cytokine Production by IFN- γ in THP-1 Human Monocytic Cells. <i>Immunopharmacology and Immunotoxicology</i> , 1998, 20, 39-61.	2.4	16
115	Specific inhibition by the synthetic copolymer COP-1 of human T cell lines specific to myelin basic protein. <i>Journal of Neuroimmunology</i> , 1991, 35, 72.	2.3	0
116	Tiapride as Treatment for Certain Patients with Idiopathic Torsion Dystonia. <i>European Neurology</i> , 1991, 31, 356-359.	1.4	5