List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mitochondria preserve an autarkic one-carbon cycle to confer growth-independent cancer cell migration and metastasis. Nature Communications, 2022, 13, 2699.	12.8	20
2	Tropical approximation to finish time of activity networks. Physical Review E, 2022, 106, .	2.1	0
3	Trends in Phase II Trials for Cancer Therapies. Cancers, 2021, 13, 178.	3.7	4
4	Zero forcing number of graphs with a power law degree distribution. Physical Review E, 2021, 103, 022301.	2.1	0
5	Transition to multitype mixing in d -dimensional spreading dynamics. Physical Review E, 2021, 103, 022309.	2.1	1
6	Folate metabolism: a re-emerging therapeutic target in haematological cancers. Leukemia, 2021, 35, 1539-1551.	7.2	38
7	Multitype branching and graph product theory of infectious disease outbreaks. Physical Review E, 2021, 103, L030301.	2.1	5
8	Exact solution of infection dynamics with gamma distribution of generation intervals. Physical Review E, 2021, 103, 042306.	2.1	11
9	Immune-regulated IDO1-dependent tryptophan metabolism is source of one-carbon units for pancreatic cancer and stellate cells. Molecular Cell, 2021, 81, 2290-2302.e7.	9.7	54
10	Metformin Is a Pyridoxal-5′-phosphate (PLP)-Competitive Inhibitor of SHMT2. Cancers, 2021, 13, 4009.	3.7	15
11	Inhibition of Folate Metabolism Drives Autophagy-Dependent Differentiation and Reduces Survival of Therapy-Resistant Leukaemic Stem Cells. Blood, 2021, 138, 2543-2543.	1.4	0
12	Formate metabolism in health and disease. Molecular Metabolism, 2020, 33, 23-37.	6.5	112
13	Targeting the Metabolic Response to Statin-Mediated Oxidative Stress Produces a Synergistic Antitumor Response. Cancer Research, 2020, 80, 175-188.	0.9	83
14	The conversion of formate into purines stimulates mTORC1 leading to CAD-dependent activation of pyrimidine synthesis. Cancer & Metabolism, 2020, 8, 20.	5.0	7
15	Metabolite AutoPlotter - an application to process and visualise metabolite data in the web browser. Cancer & Metabolism, 2020, 8, 15.	5.0	22
16	Amino acid dependent formaldehyde metabolism in mammals. Communications Chemistry, 2020, 3, .	4.5	17
17	Identification of putative calorie restriction mimetics using mammalian gene expression profiles. Open Biology, 2020, 10, 200158.	3.6	0
18	Superspreaders and lockdown timing explain the power-law dynamics of COVID-19. Physical Review E, 2020, 102, 040302.	2.1	13

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19	Impact of Formate Supplementation on Body Weight and Plasma Amino Acids. Nutrients, 2020, 12, 2181.	4.1	3
20	Formate induces a metabolic switch in nucleotide and energy metabolism. Cell Death and Disease, 2020, 11, 310.	6.3	31
21	Cell population heterogeneity driven by stochastic partition and growth optimality. Scientific Reports, 2019, 9, 9406.	3.3	12
22	Stratification of cancer and diabetes based on circulating levels of formate and glucose. Cancer & Metabolism, 2019, 7, 3.	5.0	23
23	Increased formate overflow is a hallmark of oxidative cancer. Nature Communications, 2018, 9, 1368.	12.8	90
24	Analysis of cell proliferation and tissue remodelling uncovers a KLF4 activity score associated with poor prognosis in colorectal cancer. British Journal of Cancer, 2018, 119, 855-863.	6.4	11
25	A physical model of cell metabolism. Scientific Reports, 2018, 8, 8349.	3.3	17
26	Limits of aerobic metabolism in cancer cells. Scientific Reports, 2017, 7, 13488.	3.3	60
27	Mammals divert endogenous genotoxic formaldehyde into one-carbon metabolism. Nature, 2017, 548, 549-554.	27.8	246
28	DJ1 at the interface between neuro-degeneration and cancer. Oncotarget, 2017, 8, 9015-9016.	1.8	1
29	Riluzole exerts distinct antitumor effects from a metabotropic glutamate receptor 1-specific inhibitor on breast cancer cells. Oncotarget, 2017, 8, 44639-44653.	1.8	20
30	Clinical Actionability of Comprehensive Genomic Profiling for Management of Rare or Refractory Cancers. Oncologist, 2016, 21, 1315-1325.	3.7	64
31	Cancer metabolism at a glance. Journal of Cell Science, 2016, 129, 3367-3373.	2.0	176
32	Serine one-carbon catabolism with formate overflow. Science Advances, 2016, 2, e1601273.	10.3	128
33	Give it or take it: the flux of oneâ€carbon in cancer cells. FEBS Journal, 2016, 283, 3695-3704.	4.7	34
34	A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	6.6	513
35	Mitochondrial Methylenetetrahydrofolate Dehydrogenase (MTHFD2) Overexpression Is Associated with Tumor Cell Proliferation and Is a Novel Target for Drug Development. Molecular Cancer Research, 2015, 13, 1361-1366.	3.4	67
36	Quantification of folate metabolism using transient metabolic flux analysis. Cancer & Metabolism, 2015, 3, 6.	5.0	20

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37	Pyruvate carboxylation enables growth of SDH-deficient cells by supporting aspartateÂbiosynthesis. Nature Cell Biology, 2015, 17, 1317-1326.	10.3	226
38	Autophagy regulator BECN1 suppresses mammary tumorigenesis driven by WNT1 activation and following parity. Autophagy, 2014, 10, 2036-2052.	9.1	126
39	ERBB2 overexpression suppresses stress-induced autophagy and renders ERBB2-induced mammary tumorigenesis independent of monoallelic <i>Becn1</i> loss. Autophagy, 2014, 10, 662-676.	9.1	36
40	Small molecule compounds targeting the p53 pathway: are we finally making progress?. Apoptosis: an International Journal on Programmed Cell Death, 2014, 19, 1055-1068.	4.9	60
41	Inference of synergy/antagonism between anticancer drugs from the pooled analysis of clinical trials. BMC Medical Research Methodology, 2013, 13, 77.	3.1	8
42	Optimization of personalized therapies for anticancer treatment. BMC Systems Biology, 2013, 7, 31.	3.0	17
43	Overexpression of the Mitochondrial Folate and Clycine–Serine Pathway: A New Determinant of Methotrexate Selectivity in Tumors. Cancer Research, 2013, 73, 478-482.	0.9	69
44	The metabolic demands of cancer cells are coupled to their size and protein synthesis rates. Cancer & Metabolism, 2013, 1, 20.	5.0	142
45	Metabolic States Following Accumulation of Intracellular Aggregates: Implications for Neurodegenerative Diseases. PLoS ONE, 2013, 8, e63822.	2.5	23
46	Metabotropic Glutamate Receptor 1 Expression and Its Polymorphic Variants Associate with Breast Cancer Phenotypes. PLoS ONE, 2013, 8, e69851.	2.5	22
47	Allele-Specific p53 Mutant Reactivation. Cancer Cell, 2012, 21, 614-625.	16.8	281
48	Polymorphic variants in TSC1 and TSC2 and their association with breast cancer phenotypes. Breast Cancer Research and Treatment, 2011, 125, 861-868.	2.5	26
49	A genetic variant in a PP2A regulatory subunit encoded by the <i>PPP2R2B</i> gene associates with altered breast cancer risk and recurrence. International Journal of Cancer, 2011, 128, 2335-2343.	5.1	22
50	Molecular classification of prostate cancer using curated expression signatures. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21276-21281.	7.1	171
51	Molecular Crowding Defines a Common Origin for the Warburg Effect in Proliferating Cells and the Lactate Threshold in Muscle Physiology. PLoS ONE, 2011, 6, e19538.	2.5	53
52	Serine Biosynthesis with One Carbon Catabolism and the Glycine Cleavage System Represents a Novel Pathway for ATP Generation. PLoS ONE, 2011, 6, e25881.	2.5	74
53	Catabolic efficiency of aerobic glycolysis: The Warburg effect revisited. BMC Systems Biology, 2010, 4, 58.	3.0	255
54	Optimal cytoplasmatic density and flux balance model under macromolecular crowding effects. Journal of Theoretical Biology, 2010, 264, 356-359.	1.7	36

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55	Higher order Boolean networks as models of cell state dynamics. Journal of Theoretical Biology, 2010, 264, 945-951.	1.7	5
56	Chemosensitivity Profiles Identify Polymorphisms in the p53 Network Genes 14-3-3ï,, and CD44 That Affect Sarcoma Incidence and Survival. Cancer Research, 2010, 70, 172-180.	0.9	45
57	Finding hypergraph communities: a Bayesian approach and variational solution. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P07006.	2.3	17
58	A polymorphic variant in human MDM4 associates with accelerated age of onset of estrogen receptor negative breast cancer. Carcinogenesis, 2009, 30, 1910-1915.	2.8	35
59	Recent Natural Selection Identifies a Genetic Variant in a Regulatory Subunit of Protein Phosphatase 2A that Associates with Altered Cancer Risk and Survival. Clinical Cancer Research, 2009, 15, 6301-6308.	7.0	23
60	Optimal drug combinations and minimal hitting sets. BMC Systems Biology, 2009, 3, 81.	3.0	41
61	An empirical framework for binary interactome mapping. Nature Methods, 2009, 6, 83-90.	19.0	800
62	The genetics of the p53 pathway, apoptosis and cancer therapy. Nature Reviews Drug Discovery, 2008, 7, 979-987.	46.4	568
63	Impact of the solvent capacity constraint on E. coli metabolism. BMC Systems Biology, 2008, 2, 7.	3.0	106
64	High-Quality Binary Protein Interaction Map of the Yeast Interactome Network. Science, 2008, 322, 104-110.	12.6	1,297
65	Impact of Limited Solvent Capacity on Metabolic Rate, Enzyme Activities, and Metabolite Concentrations of S. cerevisiae Glycolysis. PLoS Computational Biology, 2008, 4, e1000195.	3.2	18
66	SCALE-FREE NETWORKS IN BIOLOGY. Complex Systems and Interdisciplinary Science, 2007, , 1-19.	0.2	6
67	Epstein–Barr virus and virus human protein interaction maps. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7606-7611.	7.1	348
68	Impact of Non-Poissonian Activity Patterns on Spreading Processes. Physical Review Letters, 2007, 98, 158702.	7.8	284
69	Impact of memory on human dynamics. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 747-752.	2.6	99
70	Epidemic outbreaks on structured populations. Journal of Theoretical Biology, 2007, 245, 125-129.	1.7	38
71	Sampling of Networks with Traceroute-Like Probes. Complexus, 2006, 3, 83-96.	0.6	0
72	Spreading dynamics on heterogeneous populations: Multitype network approach. Physical Review E, 2006, 74, 066114.	2.1	45

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73	Spreading dynamics on small-world networks with connectivity fluctuations and correlations. Physical Review E, 2006, 74, 056101.	2.1	31
74	Polynomial Growth in Branching Processes with Diverging Reproductive Number. Physical Review Letters, 2006, 96, 038702.	7.8	98
75	Inhomogeneous evolution of subgraphs and cycles in complex networks. Physical Review E, 2005, 71, 025103.	2.1	21
76	Exact Results for the Barab $ ilde{A}_i$ si Model of Human Dynamics. Physical Review Letters, 2005, 95, 248701.	7.8	123
77	Global protein function prediction from protein-protein interaction networks. Nature Biotechnology, 2003, 21, 697-700.	17.5	611
78	Resilience to damage of graphs with degree correlations. Physical Review E, 2003, 67, 015101.	2.1	184
79	Growing network with local rules: Preferential attachment, clustering hierarchy, and degree correlations. Physical Review E, 2003, 67, 056104.	2.1	430
80	Topology and correlations in structured scale-free networks. Physical Review E, 2003, 67, 046111.	2.1	70
81	Computational complexity arising from degree correlations in networks. Physical Review E, 2003, 67, 027101.	2.1	50
82	Modeling of Protein Interaction Networks. Complexus, 2003, 1, 38-44.	0.6	392
83	Dynamical and Correlation Properties of the Internet. Physical Review Letters, 2001, 87, 258701.	7.8	1,130
84	Self-organization in populations of competing agents. Physical Review E, 2000, 62, R4497-R4500.	2.1	7
85	Universality classes in the random-storage sandpile model. Physical Review E, 2000, 61, 944-947.	2.1	3
86	Nonconservative Abelian sandpile model with the Bak-Tang-Wiesenfeld toppling rule. Physical Review E, 2000, 62, 7797-7801.	2.1	3
87	Dynamics of a Domain Wall in Soft-Magnetic Materials: Barkhausen Effect and Relation with Sandpile Models. Physical Review Letters, 2000, 84, 1316-1319.	7.8	19
88	Bethe lattice representation for sandpiles. Physical Review E, 1999, 59, 6956-6961.	2.1	1
89	Diffusion regimes in Lévy flights with trapping. Physica A: Statistical Mechanics and Its Applications, 1999, 264, 424-431.	2.6	15