Carlo Maley

List of Publications by Year
in descending order

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		81900	64796
84	10,384	39	79
papers	citations	h-index	g-index

91	91	91	13091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clonal evolution in cancer. Nature, 2012, 481, 306-313.	27.8	2,570
2	Cancer as an evolutionary and ecological process. Nature Reviews Cancer, 2006, 6, 924-935.	28.4	1,470
3	Genetic clonal diversity predicts progression to esophageal adenocarcinoma. Nature Genetics, 2006, 38, 468-473.	21.4	635
4	Pan-cancer analysis of the extent and consequences of intratumor heterogeneity. Nature Medicine, 2016, 22, 105-113.	30.7	629
5	Potential Mechanisms for Cancer Resistance in Elephants and Comparative Cellular Response to DNA Damage in Humans. JAMA - Journal of the American Medical Association, 2015, 314, 1850.	7.4	346
6	Cancer across the tree of life: cooperation and cheating in multicellularity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140219.	4.0	303
7	Classifying the evolutionary and ecological features of neoplasms. Nature Reviews Cancer, 2017, 17, 605-619.	28.4	303
8	Peto's Paradox: evolution's prescription for cancer prevention. Trends in Ecology and Evolution, 2011, 26, 175-182.	8.7	290
9	Life history trade-offs in cancer evolution. Nature Reviews Cancer, 2013, 13, 883-892.	28.4	207
10	Selectively Advantageous Mutations and Hitchhikers in Neoplasms. Cancer Research, 2004, 64, 3414-3427.	0.9	199
11	Genomic Instability in Cancer: Teetering on the Limit of Tolerance. Cancer Research, 2017, 77, 2179-2185.	0.9	182
12	The Combination of Genetic Instability and Clonal Expansion Predicts Progression to Esophageal Adenocarcinoma. Cancer Research, 2004, 64, 7629-7633.	0.9	180
13	A Comprehensive Survey of Clonal Diversity Measures in Barrett's Esophagus as Biomarkers of Progression to Esophageal Adenocarcinoma. Cancer Prevention Research, 2010, 3, 1388-1397.	1.5	140
14	Temporal and Spatial Evolution of Somatic Chromosomal Alterations: A Case-Cohort Study of Barrett's Esophagus. Cancer Prevention Research, 2014, 7, 114-127.	1.5	135
15	Single-cell genotyping demonstrates complex clonal diversity in acute myeloid leukemia. Science Translational Medicine, 2015, 7, 281re2.	12.4	132
16	Fetal microchimerism and maternal health: A review and evolutionary analysis of cooperation and conflict beyond the womb. BioEssays, 2015, 37, 1106-1118.	2.5	113
17	Cancer in Light of Experimental Evolution. Current Biology, 2012, 22, R762-R771.	3.9	103
18	Kombucha: a novel model system for cooperation and conflict in a complex multi-species microbial ecosystem. PeerJ, 2019, 7, e7565.	2.0	89

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19	Understanding cooperation through fitness interdependence. Nature Human Behaviour, 2018, 2, 429-431.	12.0	86
20	Cancer risk across mammals. Nature, 2022, 601, 263-267.	27.8	86
21	SYNTHESIS: Cancer research meets evolutionary biology. Evolutionary Applications, 2009, 2, 62-70.	3.1	83
22	An ecological measure of immune-cancer colocalization as a prognostic factor for breast cancer. Breast Cancer Research, 2015, 17, 131.	5.0	81
23	Exploiting evolutionary steering to induce collateral drug sensitivity in cancer. Nature Communications, 2020, 11, 1923.	12.8	79
24	Spatial structure increases the waiting time for cancer. New Journal of Physics, 2011, 13, 115014.	2.9	77
25	Dynamic clonal equilibrium and predetermined cancer risk in Barrettâ€™s oesophagus. Nature Communications, 2016, 7, 12158.	12.8	75
26	Return to the Sea, Get Huge, Beat Cancer: An Analysis of Cetacean Genomes Including an Assembly for the Humpback Whale (Megaptera novaeangliae). Molecular Biology and Evolution, 2019, 36, 1746-1763.	8.9	75
27	Increasing genomic instability during premalignant neoplastic progression revealed through high resolution array-CGH. Genes Chromosomes and Cancer, 2007, 46, 532-542.	2.8	72
28	Single Nucleotide Polymorphismâ€“Based Genome-Wide Chromosome Copy Change, Loss of Heterozygosity, and Aneuploidy in Barrett's Esophagus Neoplastic Progression. Cancer Prevention Research, 2008, 1, 413-423.	1.5	70
29	Solutions to Peto's paradox revealed by mathematical modelling and cross-species cancer gene analysis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140222.	4.0	69
30	Animal Cell Differentiation Patterns Suppress Somatic Evolution. PLoS Computational Biology, 2007, 3, e250.	3.2	62
31	Petoâ€™s Paradox: how has evolution solved the problem of cancer prevention?. BMC Biology, 2017, 15, 60.	3.8	60
32	NSAIDs Modulate Clonal Evolution in Barrett's Esophagus. PLoS Genetics, 2013, 9, e1003553.	3.5	59
33	Peto's paradox and the promise of comparative oncology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140177.	4.0	58
34	Identifying key questions in the ecology and evolution of cancer. Evolutionary Applications, 2021, 14, 877-892.	3.1	58
35	Prediction of Occult Invasive Disease in Ductal Carcinoma in Situ Using Deep Learning Features. Journal of the American College of Radiology, 2018, 15, 527-534.	1.8	56
36	Lifetime cancer prevalence and life history traits in mammals. Evolution, Medicine and Public Health, 2020, 2020, 187-195.	2.5	56

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37	Solving the Puzzle of Metastasis: The Evolution of Cell Migration in Neoplasms. PLoS ONE, 2011, 6, e17933.	2.5	51
38	Evolution of cancer suppression as revealed by mammalian comparative genomics. Current Opinion in Genetics and Development, 2017, 42, 40-47.	3.3	49
39	Natural Selection in Cancer Biology: From Molecular Snowflakes to Trait Hallmarks. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a029652.	6.2	48
40	Evolution of Barrettâ€™s esophagus through space and time at single-crypt and whole-biopsy levels. Nature Communications, 2018, 9, 794.	12.8	47
41	Natural resistance to cancers: a Darwinian hypothesis to explain Petoâ€™s paradox. BMC Cancer, 2012, 12, 387.	2.6	44
42	Assessment of Esophageal Adenocarcinoma Risk Using Somatic Chromosome Alterations in Longitudinal Samples in Barrett's Esophagus. Cancer Prevention Research, 2015, 8, 845-856.	1.5	44
43	Cancer susceptibility and reproductive trade-offs: a model of the evolution of cancer defences. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140220.	4.0	43
44	Molecular Biology and Evolution of Cancer: From Discovery to Action. Molecular Biology and Evolution, 2020, 37, 320-326.	8.9	43
45	Cancer prevention strategies that address the evolutionary dynamics of neoplastic cells: simulating benign cell boosters and selection for chemosensitivity. Cancer Epidemiology Biomarkers and Prevention, 2004, 13, 1375-84.	2.5	41
46	Deletion at Fragile Sites Is a Common and Early Event in Barrett's Esophagus. Molecular Cancer Research, 2010, 8, 1084-1094.	3.4	40
47	Derivation of genetic biomarkers for cancer risk stratification in Barrettâ€™s oesophagus: a prospective cohort study. Gut, 2016, 65, 1602-1610.	12.1	39
48	Dispersal Evolution in Neoplasms: The Role of Disregulated Metabolism in the Evolution of Cell Motility. Cancer Prevention Research, 2012, 5, 266-275.	1.5	38
49	Modeling the Subclonal Evolution of Cancer Cell Populations. Cancer Research, 2018, 78, 830-839.	0.9	37
50	Preneoplastic lesion growth driven by the death of adjacent normal stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15034-15039.	7.1	36
51	Genomic analysis defines clonal relationships of ductal carcinoma in situ and recurrent invasive breast cancer. Nature Genetics, 2022, 54, 850-860.	21.4	34
52	Elephant Genomes Reveal Accelerated Evolution in Mechanisms Underlying Disease Defenses. Molecular Biology and Evolution, 2021, 38, 3606-3620.	8.9	33
53	Can oncology recapitulate paleontology? Lessons from species extinctions. Nature Reviews Clinical Oncology, 2015, 12, 273-285.	27.6	31
54	The Evolution of Human Cancer Gene Duplications acrossÂMammals. Molecular Biology and Evolution, 2020, 37, 2875-2886.	8.9	31

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55	Cancer initiation and progression within the cancer microenvironment. Clinical and Experimental Metastasis, 2018, 35, 361-367.	3.3	30
56	The Spatiotemporal Evolution of Lymph Node Spread in Early Breast Cancer. Clinical Cancer Research, 2018, 24, 4763-4770.	7.0	30
57	Minimal barriers to invasion during human colorectal tumor growth. Nature Communications, 2020, 11, 1280.	12.8	28
58	Mapping the breast cancer metastatic cascade onto ctDNA using genetic and epigenetic clonal tracking. Nature Communications, 2020, 11, 1446.	12.8	28
59	Comparative Oncology: New Insights into an Ancient Disease. IScience, 2020, 23, 101373.	4.1	23
60	Bulk Genotyping of Biopsies Can Create Spurious Evidence for Hetereogeneity in Mutation Content. PLoS Computational Biology, 2016, 12, e1004413.	3.2	21
61	Improving Cancer Drug Discovery by Studying Cancer across the Tree of Life. Molecular Biology and Evolution, 2020, 37, 11-17.	8.9	20
62	Unmasking the immune microecology of ductal carcinoma in situ with deep learning. Npj Breast Cancer, 2021, 7, 19.	5.2	20
63	Can Occult Invasive Disease in Ductal Carcinoma In Situ Be Predicted Using Computer-extracted Mammographic Features?. Academic Radiology, 2017, 24, 1139-1147.	2.5	18
64	Prediction of Upstaging in Ductal Carcinoma in Situ Based on Mammographic Radiomic Features. Radiology, 2022, 303, 54-62.	7.3	17
65	Life History Trade-Offs in Tumors. Current Pathobiology Reports, 2018, 6, 201-207.	3.4	14
66	Somatic whole genome dynamics of precancer in Barrettâ€™s esophagus reveals features associated with disease progression. Nature Communications, 2022, 13, 2300.	12.8	13
67	Cooperation and cheating as innovation: insights from cellular societies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160421.	4.0	12
68	Contextual organismality: Beyond pattern to process in the emergence of organisms. Evolution; International Journal of Organic Evolution, 2016, 70, 2669-2677.	2.3	10
69	In Silico Investigations of Multi-Drug Adaptive Therapy Protocols. Cancers, 2022, 14, 2699.	3.7	10
70	Upregulation of DNA repair genes and cell extrusion underpin the remarkable radiation resistance of Trichoplax adhaerens. PLoS Biology, 2021, 19, e3001471.	5.6	9
71	Anomaly Detection of Calcifications in Mammography Based on 11,000 Negative Cases. IEEE Transactions on Biomedical Engineering, 2022, 69, 1639-1650.	4.2	9
72	Diet, Microbes, and Cancer Across the Tree of Life: a Systematic Review. Current Nutrition Reports, 2022, 11, 508-525.	4.3	8

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73	Somatic Evolution in Neoplastic Progression and Cancer Prevention. , 2011, , 111-127.		6
74	Cancer Susceptibility as a Cost of Reproduction and Contributor to Life History Evolution. Frontiers in Ecology and Evolution, 2022, 10, .	2.2	6
75	Accurate Identification of Subclones in Tumor Genomes. Molecular Biology and Evolution, 0, , .	8.9	6
76	Is estrogen receptor negative breast cancer risk associated with a fast life history strategy?. Evolution, Medicine and Public Health, 2016, 2016, 17-20.	2.5	5
77	Female Health Across the Tree of Life: Insights at the Intersection of Women's Health, One Health and Planetary Health. , 2022, 1, .		4
78	The evolution of metapopulation dynamics and the number of stem cells in intestinal crypts and other tissue structures in multicellular bodies. Evolutionary Applications, 2020, 13, 1771-1783.	3.1	3
79	When (distant) relatives stay too long: implications for cancer medicine. Genome Biology, 2016, 17, 34.	8.8	2
80	Postpartum depression and motherâ€“offspring conflict over maternal investment. Evolution, Medicine and Public Health, 2021, 9, 11-23.	2.5	2
81	Does placental invasiveness lead to higher rates of malignant transformation in mammals?. Evolution, Medicine and Public Health, 2020, 2020, 215-216.	2.5	1
82	The life history theory of the Lord of the Rings: a randomized controlled trial of using fact versus fiction to teach life history theory. Evolution: Education and Outreach, 2022, 15, 2.	0.8	1
83	Application of simultaneous selective pressures slows adaptation. Evolutionary Applications, 2020, 13, 1615-1625.	3.1	0
84	Barbara Natterson-Horowitz and Kathryn Bowers, Wildhood: The Epic Journey from Adolescence to Adulthood in Humans and Other Animals. Evolution, Medicine and Public Health, 2020, 2020, 158-160.	2.5	0