

Peter Van Loo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7320348/peter-van-loo-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

24,629
citations

58
h-index

137
g-index

137
ext. papers

31,829
ext. citations

24.1
avg, IF

6.05
L-index

#	Paper	IF	Citations
116	Genomic Classification and Prognosis in Acute Myeloid Leukemia. <i>New England Journal of Medicine</i> , 2016 , 374, 2209-2221	59.2	1999
115	Mutational processes molding the genomes of 21 breast cancers. <i>Cell</i> , 2012 , 149, 979-93	56.2	1279
114	The landscape of cancer genes and mutational processes in breast cancer. <i>Nature</i> , 2012 , 486, 400-4	50.4	1264
113	Landscape of somatic mutations in 560 breast cancer whole-genome sequences. <i>Nature</i> , 2016 , 534, 47-54	50.4	1193
112	Clinical and biological implications of driver mutations in myelodysplastic syndromes. <i>Blood</i> , 2013 , 122, 3616-27; quiz 3699	2.2	1169
111	Tracking the Evolution of Non-Small-Cell Lung Cancer. <i>New England Journal of Medicine</i> , 2017 , 376, 2109-2121	50.4	1156
110	Tumor evolution. High burden and pervasive positive selection of somatic mutations in normal human skin. <i>Science</i> , 2015 , 348, 880-6	33.3	983
109	The life history of 21 breast cancers. <i>Cell</i> , 2012 , 149, 994-1007	56.2	979
108	The evolutionary history of lethal metastatic prostate cancer. <i>Nature</i> , 2015 , 520, 353-357	50.4	857
107	Phylogenetic ctDNA analysis depicts early-stage lung cancer evolution. <i>Nature</i> , 2017 , 545, 446-451	50.4	796
106	Spatial and temporal diversity in genomic instability processes defines lung cancer evolution. <i>Science</i> , 2014 , 346, 251-6	33.3	752
105	Allele-specific copy number analysis of tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16910-5	11.5	699
104	Gene prioritization through genomic data fusion. <i>Nature Biotechnology</i> , 2006 , 24, 537-44	44.5	685
103	Universal Patterns of Selection in Cancer and Somatic Tissues. <i>Cell</i> , 2017 , 171, 1029-1041.e21	56.2	576
102	Heterogeneity of genomic evolution and mutational profiles in multiple myeloma. <i>Nature Communications</i> , 2014 , 5, 2997	17.4	564
101	Mutational signatures associated with tobacco smoking in human cancer. <i>Science</i> , 2016 , 354, 618-622	33.3	562
100	Allele-Specific HLA Loss and Immune Escape in Lung Cancer Evolution. <i>Cell</i> , 2017 , 171, 1259-1271.e11	56.2	541

99	Subclonal diversification of primary breast cancer revealed by multiregion sequencing. <i>Nature Medicine</i> , 2015 , 21, 751-9	50.5	521
98	Distinct H3F3A and H3F3B driver mutations define chondroblastoma and giant cell tumor of bone. <i>Nature Genetics</i> , 2013 , 45, 1479-82	36.3	482
97	Neoantigen-directed immune escape in lung cancer evolution. <i>Nature</i> , 2019 , 567, 479-485	50.4	358
96	Genomic Evolution of Breast Cancer Metastasis and Relapse. <i>Cancer Cell</i> , 2017 , 32, 169-184.e7	24.3	346
95	The evolutionary history of 2,658 cancers. <i>Nature</i> , 2020 , 578, 122-128	50.4	307
94	Analysis of the genetic phylogeny of multifocal prostate cancer identifies multiple independent clonal expansions in neoplastic and morphologically normal prostate tissue. <i>Nature Genetics</i> , 2015 , 47, 367-372	36.3	292
93	Deterministic Evolutionary Trajectories Influence Primary Tumor Growth: TRACERx Renal. <i>Cell</i> , 2018 , 173, 595-610.e11	56.2	268
92	Combined hereditary and somatic mutations of replication error repair genes result in rapid onset of ultra-hypermutated cancers. <i>Nature Genetics</i> , 2015 , 47, 257-62	36.3	253
91	Mobile DNA in cancer. Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes. <i>Science</i> , 2014 , 345, 1251343	33.3	250
90	Tracking the origins and drivers of subclonal metastatic expansion in prostate cancer. <i>Nature Communications</i> , 2015 , 6, 6605	17.4	245
89	RAG-mediated recombination is the predominant driver of oncogenic rearrangement in ETV6-RUNX1 acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2014 , 46, 116-25	36.3	244
88	ORegAnno: an open-access community-driven resource for regulatory annotation. <i>Nucleic Acids Research</i> , 2008 , 36, D107-13	20.1	199
87	Recurrent PTPRB and PLCG1 mutations in angiosarcoma. <i>Nature Genetics</i> , 2014 , 46, 376-379	36.3	196
86	Constitutional and somatic rearrangement of chromosome 21 in acute lymphoblastic leukaemia. <i>Nature</i> , 2014 , 508, 98-102	50.4	192
85	Whole exome sequencing of adenoid cystic carcinoma. <i>Journal of Clinical Investigation</i> , 2013 , 123, 2965-8	35.9	188
84	ENDEAVOUR update: a web resource for gene prioritization in multiple species. <i>Nucleic Acids Research</i> , 2008 , 36, W377-84	20.1	182
83	Genomic Characterization of Primary Invasive Lobular Breast Cancer. <i>Journal of Clinical Oncology</i> , 2016 , 34, 1872-81	2.2	175
82	Copynumber: Efficient algorithms for single- and multi-track copy number segmentation. <i>BMC Genomics</i> , 2012 , 13, 591	4.5	175

81	Optimized filtering reduces the error rate in detecting genomic variants by short-read sequencing. <i>Nature Biotechnology</i> , 2011 , 30, 61-8	44.5	163
80	Mutational signatures of ionizing radiation in second malignancies. <i>Nature Communications</i> , 2016 , 7, 12605	17.4	152
79	Meta-analysis of tumor- and T cell-intrinsic mechanisms of sensitization to checkpoint inhibition. <i>Cell</i> , 2021 , 184, 596-614.e14	56.2	144
78	Frequent mutation of the major cartilage collagen gene COL2A1 in chondrosarcoma. <i>Nature Genetics</i> , 2013 , 45, 923-6	36.3	138
77	Recurrent mutation of IGF signalling genes and distinct patterns of genomic rearrangement in osteosarcoma. <i>Nature Communications</i> , 2017 , 8, 15936	17.4	125
76	Single-cell paired-end genome sequencing reveals structural variation per cell cycle. <i>Nucleic Acids Research</i> , 2013 , 41, 6119-38	20.1	125
75	Integrated molecular profiles of invasive breast tumors and ductal carcinoma in situ (DCIS) reveal differential vascular and interleukin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2802-7	11.5	125
74	Polysomy 17 in breast cancer: clinicopathologic significance and impact on HER-2 testing. <i>Journal of Clinical Oncology</i> , 2008 , 26, 4869-74	2.2	124
73	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. <i>Nature Genetics</i> , 2020 , 52, 306-319	36.3	122
72	Cleavage of NIK by the API2-MALT1 fusion oncoprotein leads to noncanonical NF-kappaB activation. <i>Science</i> , 2011 , 331, 468-72	33.3	122
71	TOUCAN 2: the all-inclusive open source workbench for regulatory sequence analysis. <i>Nucleic Acids Research</i> , 2005 , 33, W393-6	20.1	122
70	Sequencing of prostate cancers identifies new cancer genes, routes of progression and drug targets. <i>Nature Genetics</i> , 2018 , 50, 682-692	36.3	112
69	Single cell analysis of cancer genomes. <i>Current Opinion in Genetics and Development</i> , 2014 , 24, 82-91	4.9	99
68	Diagnostic value of H3F3A mutations in giant cell tumour of bone compared to osteoclast-rich mimics. <i>Journal of Pathology: Clinical Research</i> , 2015 , 1, 113-23	5.3	98
67	Integrated study of copy number states and genotype calls using high-density SNP arrays. <i>Nucleic Acids Research</i> , 2009 , 37, 5365-77	20.1	93
66	Computational detection of cis -regulatory modules. <i>Bioinformatics</i> , 2003 , 19 Suppl 2, ii5-14	7.2	83
65	Evidence for co-evolution between human microRNAs and Alu-repeats. <i>PLoS ONE</i> , 2009 , 4, e4456	3.7	77
64	Haploinsufficiency of TAB2 causes congenital heart defects in humans. <i>American Journal of Human Genetics</i> , 2010 , 86, 839-49	11	75

63	LRP1B deletion in high-grade serous ovarian cancers is associated with acquired chemotherapy resistance to liposomal doxorubicin. <i>Cancer Research</i> , 2012 , 72, 4060-73	10.1	73
62	Recurrent rearrangements of FOS and FOSB define osteoblastoma. <i>Nature Communications</i> , 2018 , 9, 2150	17.4	69
61	Pervasive chromosomal instability and karyotype order in tumour evolution. <i>Nature</i> , 2020 , 587, 126-132	50.4	67
60	Interplay between whole-genome doubling and the accumulation of deleterious alterations in cancer evolution. <i>Nature Genetics</i> , 2020 , 52, 283-293	36.3	63
59	ascatNgs: Identifying Somatically Acquired Copy-Number Alterations from Whole-Genome Sequencing Data. <i>Current Protocols in Bioinformatics</i> , 2016 , 56, 15.9.1-15.9.17	24.2	60
58	Principles of Reconstructing the Subclonal Architecture of Cancers. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017 , 7,	5.4	58
57	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021 , 184, 2239-2254.e39	56.2	57
56	T-cell/histiocyte-rich large B-cell lymphoma shows transcriptional features suggestive of a tolerogenic host immune response. <i>Haematologica</i> , 2010 , 95, 440-8	6.6	48
55	Computational methods for the detection of cis-regulatory modules. <i>Briefings in Bioinformatics</i> , 2009 , 10, 509-24	13.4	48
54	Tracing the origin of disseminated tumor cells in breast cancer using single-cell sequencing. <i>Genome Biology</i> , 2016 , 17, 250	18.3	48
53	On the identification of low allele frequency mosaic mutations in the brains of Alzheimer's disease patients. <i>Alzheimers and Dementia</i> , 2015 , 11, 1265-76	1.2	47
52	Characterization of Nigerian breast cancer reveals prevalent homologous recombination deficiency and aggressive molecular features. <i>Nature Communications</i> , 2018 , 9, 4181	17.4	45
51	Differential and limited expression of mutant alleles in multiple myeloma. <i>Blood</i> , 2014 , 124, 3110-7	2.2	42
50	Timing somatic events in the evolution of cancer. <i>Genome Biology</i> , 2018 , 19, 95	18.3	41
49	Pan-cancer analysis of homozygous deletions in primary tumours uncovers rare tumour suppressors. <i>Nature Communications</i> , 2017 , 8, 1221	17.4	40
48	A genetic algorithm for the detection of new cis-regulatory modules in sets of coregulated genes. <i>Bioinformatics</i> , 2004 , 20, 1974-6	7.2	38
47	Neutral tumor evolution?. <i>Nature Genetics</i> , 2018 , 50, 1630-1633	36.3	38
46	Undifferentiated Sarcomas Develop through Distinct Evolutionary Pathways. <i>Cancer Cell</i> , 2019 , 35, 441-453.e8	45.8	35

45	A community effort to create standards for evaluating tumor subclonal reconstruction. <i>Nature Biotechnology</i> , 2020 , 38, 97-107	44.5	35
44	Translating insights into tumor evolution to clinical practice: promises and challenges. <i>Genome Medicine</i> , 2019 , 11, 20	14.4	34
43	The genetic heterogeneity and mutational burden of engineered melanomas in zebrafish models. <i>Genome Biology</i> , 2013 , 14, R113	18.3	33
42	Breast tumours maintain a reservoir of subclonal diversity during expansion. <i>Nature</i> , 2021 , 592, 302-308	50.4	33
41	Direct Transcriptional Consequences of Somatic Mutation in Breast Cancer. <i>Cell Reports</i> , 2016 , 16, 2032-2046	46.6	30
40	Next-generation sequencing of disseminated tumor cells. <i>Frontiers in Oncology</i> , 2013 , 3, 320	5.3	29
39	ModuleMiner - improved computational detection of cis-regulatory modules: are there different modes of gene regulation in embryonic development and adult tissues?. <i>Genome Biology</i> , 2008 , 9, R66	18.3	29
38	The evolutionary history of 2,658 cancers		28
37	The Genomic Landscape of Pancreatic and Periampullary Adenocarcinoma. <i>Cancer Research</i> , 2016 , 76, 5092-102	10.1	27
36	How Subclonal Modeling Is Changing the Metastatic Paradigm. <i>Clinical Cancer Research</i> , 2017 , 23, 630-635	15.9	26
35	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes		25
34	A practical guide to cancer subclonal reconstruction from DNA sequencing. <i>Nature Methods</i> , 2021 , 18, 144-155	21.6	25
33	Mitotic recombination of chromosome arm 17q as a cause of loss of heterozygosity of NF1 in neurofibromatosis type 1-associated glomus tumors. <i>Genes Chromosomes and Cancer</i> , 2012 , 51, 429-37	5	23
32	Collaboratively charting the gene-to-phenotype network of human congenital heart defects. <i>Genome Medicine</i> , 2010 , 2, 16	14.4	23
31	The 5p12 breast cancer susceptibility locus affects MRPS30 expression in estrogen-receptor positive tumors. <i>Molecular Oncology</i> , 2014 , 8, 273-84	7.9	21
30	Appraising the relevance of DNA copy number loss and gain in prostate cancer using whole genome DNA sequence data. <i>PLoS Genetics</i> , 2017 , 13, e1007001	6	20
29	Representative Sequencing: Unbiased Sampling of Solid Tumor Tissue. <i>Cell Reports</i> , 2020 , 31, 107550	10.6	19
28	Promises and challenges of adoptive T-cell therapies for solid tumours. <i>British Journal of Cancer</i> , 2021 , 124, 1759-1776	8.7	19

27	Canine Mammary Tumours Are Affected by Frequent Copy Number Aberrations, including Amplification of MYC and Loss of PTEN. <i>PLoS ONE</i> , 2015 , 10, e0126371	3.7	18
26	Copy number variations alter methylation and parallel IGF2 overexpression in adrenal tumors. <i>Endocrine-Related Cancer</i> , 2015 , 22, 953-67	5.7	16
25	EGFR gene variants are associated with specific somatic aberrations in glioma. <i>PLoS ONE</i> , 2012 , 7, e47929	3.7	10
24	Ethanol exposure increases mutation rate through error-prone polymerases. <i>Nature Communications</i> , 2020 , 11, 3664	17.4	9
23	An integrative analysis of the age-associated multi-omic landscape across cancers. <i>Nature Communications</i> , 2021 , 12, 2345	17.4	9
22	Universal patterns of selection in cancer and somatic tissues		7
21	Aberrant integration of Hepatitis B virus DNA promotes major restructuring of human hepatocellular carcinoma genome architecture. <i>Nature Communications</i> , 2021 , 12, 6910	17.4	6
20	Comparative expressed sequence hybridization studies of t(11;18)(q21;q21)-positive and -negative gastric MALT lymphomas reveal both unique and overlapping gene programs. <i>Modern Pathology</i> , 2010 , 23, 458-69	9.8	5
19	Drivers underpinning the malignant transformation of giant cell tumour of bone. <i>Journal of Pathology</i> , 2020 , 252, 433-440	9.4	5
18	Chemotherapy induces canalization of cell state in childhood B-cell precursor acute lymphoblastic leukemia. <i>Nature Cancer</i> , 2021 , 2, 835-852	15.4	5
17	Using DNA sequencing data to quantify T cell fraction and therapy response. <i>Nature</i> , 2021 , 597, 555-560	50.4	5
16	DNA copy number motifs are strong and independent predictors of survival in breast cancer. <i>Communications Biology</i> , 2020 , 3, 153	6.7	4
15	Rapid parallel acquisition of somatic mutations after NPM1 in acute myeloid leukaemia evolution. <i>British Journal of Haematology</i> , 2017 , 176, 825-829	4.5	3
14	Recurrent breakpoints in 14q32.13/TCL1A region in mature B-cell neoplasms with villous lymphocytes. <i>Leukemia and Lymphoma</i> , 2012 , 53, 2449-55	1.9	3
13	Creating Standards for Evaluating Tumour Subclonal Reconstruction		3
12	Signatures of copy number alterations in human cancer		3
11	SNES makes sense? Single-cell exome sequencing evolves. <i>Genome Biology</i> , 2015 , 16, 86	18.3	2
10	Tumor cell total mRNA expression shapes the molecular and clinical phenotype of cancer		2

9	Biallelic mutations in cancer genomes reveal local mutational determinants		2
8	MEDICC2: whole-genome doubling aware copy-number phylogenies for cancer evolution		2
7	Biallelic mutations in cancer genomes reveal local mutational determinants.. <i>Nature Genetics</i> , 2022 , 54, 128-133	36.3	1
6	Whole-genome analysis of Nigerian patients with breast cancer reveals ethnic-driven somatic evolution and distinct genomic subtypes. <i>Nature Communications</i> , 2021 , 12, 6946	17.4	1
5	Drivers underpinning the malignant transformation of giant cell tumour of bone		1
4	An Integrative Analysis of the Age-Associated Genomic, Transcriptomic and Epigenetic Landscape across Cancers		1
3	A pan-cancer landscape of somatic mutations in non-unique regions of the human genome. <i>Nature Biotechnology</i> , 2021 ,	44.5	1
2	E3 ubiquitin ligase HECTD2 mediates melanoma progression and immune evasion. <i>Oncogene</i> , 2021 , 40, 5567-5578	9.2	0
1	DeCiFering the subclonal composition of tumors. <i>Cell Systems</i> , 2021 , 12, 955-957	10.6	