

# Robert Lee Grossman

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

4,571  
citations

236925

25  
h-index

182427

51  
g-index

66  
all docs

66  
docs citations

66  
times ranked

8030  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward a Shared Vision for Cancer Genomic Data. <i>New England Journal of Medicine</i> , 2016, 375, 1109-1112.	27.0	1,242
2	A cis-regulatory map of the <i>Drosophila</i> genome. <i>Nature</i> , 2011, 471, 527-531.	27.8	477
3	The Case for Cloud Computing. <i>IT Professional</i> , 2009, 11, 23-27.	1.5	353
4	UDT: UDP-based data transfer for high-speed wide area networks. <i>Computer Networks</i> , 2007, 51, 1777-1799.	5.1	319
5	The NCI Genomic Data Commons as an engine for precision medicine. <i>Blood</i> , 2017, 130, 453-459.	1.4	226
6	A Nondegenerate Code of Deleterious Variants in Mendelian Loci Contributes to Complex Disease Risk. <i>Cell</i> , 2013, 155, 70-80.	28.9	209
7	Compute and storage clouds using wide area high performance networks. <i>Future Generation Computer Systems</i> , 2009, 25, 179-183.	7.5	142
8	CUX1 is a haploinsufficient tumor suppressor gene on chromosome 7 frequently inactivated in acute myeloid leukemia. <i>Blood</i> , 2013, 121, 975-983.	1.4	130
9	Data mining standards initiatives. <i>Communications of the ACM</i> , 2002, 45, 59-61.	4.5	129
10	The impact of site-specific digital histology signatures on deep learning model accuracy and bias. <i>Nature Communications</i> , 2021, 12, 4423.	12.8	111
11	Sector and Sphere: the design and implementation of a high-performance data cloud. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 2429-2445.	3.4	103
12	Discovering novel pharmacogenomic biomarkers by imputing drug response in cancer patients from large genomics studies. <i>Genome Research</i> , 2017, 27, 1743-1751.	5.5	101
13	GA4GH: International policies and standards for data sharing across genomic research and healthcare. <i>Cell Genomics</i> , 2021, 1, 100029.	6.5	94
14	Bionimbus: a cloud for managing, analyzing and sharing large genomics datasets. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014, 21, 969-975.	4.4	66
15	Uniform genomic data analysis in the NCI Genomic Data Commons. <i>Nature Communications</i> , 2021, 12, 1226.	12.8	61
16	Inverting the model of genomics data sharing with the NHGRI Genomic Data Science Analysis, Visualization, and Informatics Lab-space. <i>Cell Genomics</i> , 2022, 2, 100085.	6.5	59
17	A Case for Data Commons: Toward Data Science as a Service. <i>Computing in Science and Engineering</i> , 2016, 18, 10-20.	1.2	58
18	Data integration in a bandwidth-rich world. <i>Communications of the ACM</i> , 2003, 46, 50-57.	4.5	52

#	ARTICLE	IF	CITATIONS
19	The NCI Genomic Data Commons. <i>Nature Genetics</i> , 2021, 53, 257-262.	21.4	52
20	Data Lakes, Clouds, and Commons: A Review of Platforms for Analyzing and Sharing Genomic Data. <i>Trends in Genetics</i> , 2019, 35, 223-234.	6.7	44
21	A framework for evaluating the analytic maturity of an organization. <i>International Journal of Information Management</i> , 2018, 38, 45-51.	17.5	36
22	Collaborating to Compete: Blood Profiling Atlas in Cancer (BloodPAC) Consortium. <i>Clinical Pharmacology and Therapeutics</i> , 2017, 101, 589-592.	4.7	32
23	Developing Cancer Informatics Applications and Tools Using the NCI Genomic Data Commons API. <i>Cancer Research</i> , 2017, 77, e15-e18.	0.9	32
24	Diverse patterns of genomic targeting by transcriptional regulators in <i>Drosophila melanogaster</i> . <i>Genome Research</i> , 2014, 24, 1224-1235.	5.5	31
25	An overview of the Open Science Data Cloud. , 2010, , .		29
26	Genome Sequences of the Primary Endosymbiont <i>Candidatus Portiera aleyrodidarum</i> in the Whitefly <i>Bemisia tabaci</i> B and Q Biotypes. <i>Journal of Bacteriology</i> , 2012, 194, 6678-6679.	2.2	29
27	Cancer expression quantitative trait loci (eQTLs) can be determined from heterogeneous tumor gene expression data by modeling variation in tumor purity. <i>Genome Biology</i> , 2018, 19, 130.	8.8	27
28	Simple Available Bandwidth Utilization Library for High-Speed Wide Area Networks. <i>Journal of Supercomputing</i> , 2005, 34, 231-242.	3.6	26
29	Comparison of the Genome Sequences of <i>Candidatus Portiera aleyrodidarum</i> Primary Endosymbionts of the Whitefly <i>Bemisia tabaci</i> B and Q Biotypes. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1757-1759.	3.1	25
30	5-Hydroxymethylcytosine Profiles in Circulating Cell-Free DNA Associate with Disease Burden in Children with Neuroblastoma. <i>Clinical Cancer Research</i> , 2020, 26, 1309-1317.	7.0	22
31	Minimum Technical Data Elements for Liquid Biopsy Data Submitted to Public Databases. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 730-734.	4.7	22
32	Experimental studies using photonic data services at IGrid 2002. <i>Future Generation Computer Systems</i> , 2003, 19, 945-955.	7.5	19
33	TeraScope: distributed visual data mining of terascale data sets over photonic networks. <i>Future Generation Computer Systems</i> , 2003, 19, 935-943.	7.5	17
34	Sector: A high performance wide area community data storage and sharing system. <i>Future Generation Computer Systems</i> , 2010, 26, 720-728.	7.5	17
35	Deploying Analytics with the Portable Format for Analytics (PFA). , 2016, , .		17
36	Progress Toward Cancer Data Ecosystems. <i>Cancer Journal (Sudbury, Mass)</i> , 2018, 24, 126-130.	2.0	16

#	ARTICLE	IF	CITATIONS
37	Differential algebra structures on families of trees. <i>Advances in Applied Mathematics</i> , 2005, 35, 97-119.	0.7	13
38	Assigning Unique Keys to Chemical Compounds for Data Integration: Some Interesting Counter Examples. <i>Lecture Notes in Computer Science</i> , 2005, , 145-157.	1.3	13
39	BloodPAC Data Commons for Liquid Biopsy Data. <i>JCO Clinical Cancer Informatics</i> , 2021, 5, 479-486.	2.1	12
40	Data Harmonization for a Molecularly Driven Health System. <i>Cell</i> , 2018, 174, 1045-1048.	28.9	11
41	What is analytic infrastructure and why should you care?. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , 2009, 11, 5-9.	4.0	11
42	The Veterans Affairs Precision Oncology Data Repository, a Clinical, Genomic, and Imaging Research Database. <i>Patterns</i> , 2020, 1, 100083.	5.9	10
43	Teraflows over Gigabit WANs with UDT. <i>Future Generation Computer Systems</i> , 2005, 21, 501-513.	7.5	9
44	Distributing the Sloan Digital Sky Survey Using UDT and Sector. , 2006, , .		9
45	Data webs for earth science data. <i>Parallel Computing</i> , 2003, 29, 1363-1379.	2.1	8
46	Data mining middleware for wide-area high-performance networks. <i>Future Generation Computer Systems</i> , 2006, 22, 940-948.	7.5	7
47	Experimental studies of data transport and data access of earth-science data over networks with high bandwidth delay products. <i>Computer Networks</i> , 2004, 46, 411-421.	5.1	5
48	The Biomedical Research Hub: a federated platform for patient research data. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 619-625.	4.4	5
49	HeartBioPortal2.0: new developments and updates for genetic ancestry and cardiometabolic quantitative traits in diverse human populations. <i>Database: the Journal of Biological Databases and Curation</i> , 2020, 2020, .	3.0	5
50	Hopf Algebras of Heap Ordered Trees and Permutations. <i>Communications in Algebra</i> , 2009, 37, 453-459.	0.6	4
51	Detecting Spatial Patterns of Disease in Large Collections of Electronic Medical Records Using Neighbor-Based Bootstrapping. <i>Big Data</i> , 2017, 5, 213-224.	3.4	4
52	Flynet: a genomic resource for <i>Drosophila melanogaster</i> transcriptional regulatory networks. <i>Bioinformatics</i> , 2009, 25, 3001-3004.	4.1	3
53	Harmonization of clinical data across Gen3 data commons.. <i>Journal of Clinical Oncology</i> , 2019, 37, e18094-e18094.	1.6	3
54	Alert Management Systems: A Quick Introduction. , 2005, , 281-291.		2

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55	Linked Entity Attribute Pair (LEAP): A Harmonization Framework for Data Pooling. JCO Clinical Cancer Informatics, 2020, 4, 691-699.	2.1	2
56	Free-living wrist and hip accelerometry forecast cognitive decline among older adults without dementia over 1- or 5-years in two distinct observational cohorts. , 2022, 8, .		2
57	Discovering geometric patterns in genomic data. , 2012, , .		1
58	Using Term Lists and Inverted Files to Improve Search Speed for Metabolic Pathway Databases. Lecture Notes in Computer Science, 2006, , 168-184.	1.3	0
59	Evaluation of Hyperbolic Attention in Histopathology Images. , 2020, , .		0