Robert Lee Grossman

List of Publications by Year
in descending order

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	The Biomedical Research Hub: a federated platform for patient research data. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 619-625.	4.4	5
2	Inverting the model of genomics data sharing with the NHGRI Genomic Data Science Analysis, Visualization, and Informatics Lab-space. Cell Genomics, 2022, 2, 100085.	6.5	59
3	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
4	Uniform genomic data analysis in the NCI Genomic Data Commons. Nature Communications, 2021, 12, 1226.	12.8	61
5	The NCI Genomic Data Commons. Nature Genetics, 2021, 53, 257-262.	21.4	52
6	BloodPAC Data Commons for Liquid Biopsy Data. JCO Clinical Cancer Informatics, 2021, 5, 479-486.	2.1	12
7	The impact of site-specific digital histology signatures on deep learning model accuracy and bias. Nature Communications, 2021, 12, 4423.	12.8	111
8	GA4GH: International policies and standards for data sharing across genomic research and healthcare. Cell Genomics, 2021, 1, 100029.	6.5	94
9	5-Hydroxymethylcytosine Profiles in Circulating Cell-Free DNA Associate with Disease Burden in Children with Neuroblastoma. Clinical Cancer Research, 2020, 26, 1309-1317.	7.0	22
10	The Veterans Affairs Precision Oncology Data Repository, a Clinical, Genomic, and Imaging Research Database. Patterns, 2020, 1, 100083.	5.9	10
11	Linked Entity Attribute Pair (LEAP): A Harmonization Framework for Data Pooling. JCO Clinical Cancer Informatics, 2020, 4, 691-699.	2.1	2
12	Minimum Technical Data Elements for Liquid Biopsy Data Submitted to Public Databases. Clinical Pharmacology and Therapeutics, 2020, 107, 730-734.	4.7	22
13	HeartBioPortal2.0: new developments and updates for genetic ancestry and cardiometabolic quantitative traits in diverse human populations. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	3.0	5
14	Evaluation of Hyperbolic Attention in Histopathology Images. , 2020, , .		0
15	Data Lakes, Clouds, and Commons: A Review of Platforms for Analyzing and Sharing Genomic Data. Trends in Genetics, 2019, 35, 223-234.	6.7	44
16	Harmonization of clinical data across Gen3 data commons.. Journal of Clinical Oncology, 2019, 37, e18094-e18094.	1.6	3
17	A framework for evaluating the analytic maturity of an organization. International Journal of Information Management, 2018, 38, 45-51.	17.5	36
18	Cancer expression quantitative trait loci (eQTLs) can be determined from heterogeneous tumor gene expression data by modeling variation in tumor purity. Genome Biology, 2018, 19, 130.	8.8	27

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19	Data Harmonization for a Molecularly Driven Health System. Cell, 2018, 174, 1045-1048.	28.9	11
20	Progress Toward Cancer Data Ecosystems. Cancer Journal (Sudbury, Mass), 2018, 24, 126-130.	2.0	16
21	Collaborating to Compete: Blood Profiling Atlas in Cancer (BloodPAC) Consortium. Clinical Pharmacology and Therapeutics, 2017, 101, 589-592.	4.7	32
22	The NCI Genomic Data Commons as an engine for precision medicine. Blood, 2017, 130, 453-459.	1.4	226
23	Developing Cancer Informatics Applications and Tools Using the NCI Genomic Data Commons API. Cancer Research, 2017, 77, e15-e18.	0.9	32
24	Discovering novel pharmacogenomic biomarkers by imputing drug response in cancer patients from large genomics studies. Genome Research, 2017, 27, 1743-1751.	5.5	101
25	Detecting Spatial Patterns of Disease in Large Collections of Electronic Medical Records Using Neighbor-Based Bootstrapping. Big Data, 2017, 5, 213-224.	3.4	4
26	A Case for Data Commons: Toward Data Science as a Service. Computing in Science and Engineering, 2016, 18, 10-20.	1.2	58
27	Toward a Shared Vision for Cancer Genomic Data. New England Journal of Medicine, 2016, 375, 1109-1112.	27.0	1,242
28	Deploying Analytics with the Portable Format for Analytics (PFA). , 2016, , .		17
29	Bionimbus: a cloud for managing, analyzing and sharing large genomics datasets. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 969-975.	4.4	66
30	Diverse patterns of genomic targeting by transcriptional regulators in <i>Drosophila melanogaster</i>. Genome Research, 2014, 24, 1224-1235.	5.5	31
31	A Nondegenerate Code of Deleterious Variants in Mendelian Loci Contributes to Complex Disease Risk. Cell, 2013, 155, 70-80.	28.9	209
32	Comparison of the Genome Sequences of â€œCandidatus Portiera aleyrodidarumâ€•Primary Endosymbionts of the Whitefly Bemisia tabaci B and Q Biotypes. Applied and Environmental Microbiology, 2013, 79, 1757-1759.	3.1	25
33	CUX1 is a haploinsufficient tumor suppressor gene on chromosome 7 frequently inactivated in acute myeloid leukemia. Blood, 2013, 121, 975-983.	1.4	130
34	Genome Sequences of the Primary Endosymbiont â€œCandidatus Portiera aleyrodidarumâ€•in the Whitefly Bemisia tabaci B and Q Biotypes. Journal of Bacteriology, 2012, 194, 6678-6679.	2.2	29
35	Discovering geometric patterns in genomic data. , 2012, , .		1
36	A cis-regulatory map of the Drosophila genome. Nature, 2011, 471, 527-531.	27.8	477

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37	Sector: A high performance wide area community data storage and sharing system. Future Generation Computer Systems, 2010, 26, 720-728.	7.5	17
38	An overview of the Open Science Data Cloud. , 2010, , .		29
39	Flynet: a genomic resource for <i>Drosophila melanogaster</i> transcriptional regulatory networks. Bioinformatics, 2009, 25, 3001-3004.	4.1	3
40	Compute and storage clouds using wide area high performance networks. Future Generation Computer Systems, 2009, 25, 179-183.	7.5	142
41	The Case for Cloud Computing. IT Professional, 2009, 11, 23-27.	1.5	353
42	Hopf Algebras of Heap Ordered Trees and Permutations. Communications in Algebra, 2009, 37, 453-459.	0.6	4
43	Sector and Sphere: the design and implementation of a high-performance data cloud. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 2429-2445.	3.4	103
44	What is analytic infrastructure and why should you care?. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2009, 11, 5-9.	4.0	11
45	UDT: UDP-based data transfer for high-speed wide area networks. Computer Networks, 2007, 51, 1777-1799.	5.1	319
46	Distributing the Sloan Digital Sky Survey Using UDT and Sector. , 2006, , .		9
47	Data mining middleware for wide-area high-performance networks. Future Generation Computer Systems, 2006, 22, 940-948.	7.5	7
48	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
49	Alert Management Systems: A Quick Introduction. , 2005, , 281-291.		2
50	Teraflows over Gigabit WANs with UDT. Future Generation Computer Systems, 2005, 21, 501-513.	7.5	9
51	Differential algebra structures on families of trees. Advances in Applied Mathematics, 2005, 35, 97-119.	0.7	13
52	Simple Available Bandwidth Utilization Library for High-Speed Wide Area Networks. Journal of Supercomputing, 2005, 34, 231-242.	3.6	26
53	Assigning Unique Keys to Chemical Compounds for Data Integration: Some Interesting Counter Examples. Lecture Notes in Computer Science, 2005, , 145-157.	1.3	13
54	Experimental studies of data transport and data access of earth-science data over networks with high bandwidth delay products. Computer Networks, 2004, 46, 411-421.	5.1	5

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55	Data webs for earth science data. Parallel Computing, 2003, 29, 1363-1379.	2.1	8
56	TeraScope: distributed visual data mining of terascale data sets over photonic networks. Future Generation Computer Systems, 2003, 19, 935-943.	7.5	17
57	Experimental studies using photonic data services at IGrid 2002. Future Generation Computer Systems, 2003, 19, 945-955.	7.5	19
58	Data integration in a bandwidth-rich world. Communications of the ACM, 2003, 46, 50-57.	4.5	52
59	Data mining standards initiatives. Communications of the ACM, 2002, 45, 59-61.	4.5	129