

# Michael W Berry

## List of Publications by Year in descending order

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76  
papers

5,801  
citations

377584

21  
h-index

124990

64  
g-index

91  
all docs

91  
docs citations

91  
times ranked

4935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mining Multimodal Big Data. Advances in Data Mining and Database Management Book Series, 2018, , 674-702.	0.4	0
2	Navigating the Functional Landscape of Transcription Factors via Non-Negative Tensor Factorization Analysis of MEDLINE Abstracts. Frontiers in Bioengineering and Biotechnology, 2017, 5, 48.	2.0	5
3	The Application of LSA to the Evaluation of Questionnaire Responses. , 2016, , 449-484.		3
4	Identifying influential edges in a directed network: big events, upsets and non-transitivity. Journal of Complex Networks, 2014, 2, 87-109.	1.1	5
5	Classification of T cell movement tracks allows for prediction of cell function. International Journal of Computational Biology and Drug Design, 2014, 7, 113.	0.3	7
6	Nonnegative Tensor Factorization of Biomedical Literature for Analysis of Genomic Data. Studies in Big Data, 2014, , 97-110.	0.8	6
7	A framework of integrating GIS and parallel computing for spatial control problems “a case study of wildfire control. International Journal of Geographical Information Science, 2012, 26, 621-641.	2.2	19
8	The Effects of Tabular-Based Content Extraction on Patent Document Clustering. Algorithms, 2012, 5, 490-505.	1.2	0
9	Knowledge Discovery Using Nonnegative Tensor Factorization with Visual Analytics. , 2012, , 327-342.		0
10	Latent Semantic Indexing of PubMed abstracts for identification of transcription factor candidates from microarray derived gene sets. BMC Bioinformatics, 2011, 12, S19.	1.2	19
11	Functional Cohesion of Gene Sets Determined by Latent Semantic Indexing of PubMed Abstracts. PLoS ONE, 2011, 6, e18851.	1.1	28
12	Discovering gene functional relationships using FAUN (Feature Annotation Using Nonnegative matrix) Tj ETQq0 0 Q rgBT /Overlock 10 T	1.2	12
13	Algorithm 905. ACM Transactions on Mathematical Software, 2010, 37, 1-20.	1.6	56
14	Performance of a Finite-State Machine Implementation of Iterative Cluster Labeling on Desktop and Mobile Computing Platforms. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1604-1616.	4.0	1
15	Gene-set Cohesion Analysis Tool (GCAT): A literature based web tool for calculating functional cohesiveness of gene groups. , 2009, , .		1
16	Document classification using nonnegative matrix factorization and underapproximation. , 2009, , .		16
17	A Parallel Nonnegative Tensor Factorization Algorithm for Mining Global Climate Data. Lecture Notes in Computer Science, 2009, , 405-415.	1.0	22
18	Document classification techniques for automated technology readiness level analysis. Journal of the Association for Information Science and Technology, 2008, 59, 675-680.	2.6	13

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19	Bioinformatic Analysis Reveals cRel as a Regulator of a Subset of Interferon-Stimulated Genes. Journal of Interferon and Cytokine Research, 2008, 28, 541-552.	0.5	21
20	Discussion Tracking in Enron Email Using PARAFAC. , 2008, , 147-163.		56
21	Gene Tree Labeling Using Nonnegative Matrix Factorization on Biomedical Literature. Computational Intelligence and Neuroscience, 2008, 2008, 1-12.	1.1	9
22	Anomaly Detection Using Nonnegative Matrix Factorization. , 2008, , 203-217.		9
23	A Parallel Structured Ecological Model for High End Shared Memory Computers. Lecture Notes in Computer Science, 2008, , 107-118.	1.0	5
24	Scenario Discovery Using Nonnegative Tensor Factorization. Lecture Notes in Computer Science, 2008, , 791-805.	1.0	4
25	Computational Science for Natural Resource Management. Computing in Science and Engineering, 2007, 9, 40-48.	1.2	6
26	Algorithms and applications for approximate nonnegative matrix factorization. Computational Statistics and Data Analysis, 2007, 52, 155-173.	0.7	1,162
27	Out-of-core SVD performance for document indexing. Applied Numerical Mathematics, 2007, 57, 1230-1239.	1.2	8
28	SHEPPACK. , 2006, , .		5
29	Bioregional planning in central Georgia, USA. Futures, 2006, 38, 471-489.	1.4	8
30	Document clustering using nonnegative matrix factorization. Information Processing and Management, 2006, 42, 373-386.	5.4	448
31	On Parallelization of a Spatially-Explicit Structured Ecological Model for Integrated Ecosystem Simulation. International Journal of High Performance Computing Applications, 2006, 20, 571-581.	2.4	11
32	A Parallel Fish Landscape Model for Ecosystem Modeling. Simulation, 2006, 82, 451-465.	1.1	22
33	Lecture Notes in Data Mining. , 2006, , .		26
34	Vehicle impacts on the environment at different spatial scales: observations in west central Georgia, USA. Journal of Terramechanics, 2005, 42, 383-402.	1.4	17
35	A parallel implementation of ALFISH: simulating hydrological compartmentalization effects on fish dynamics in the Florida Everglades. Simulation Modelling Practice and Theory, 2005, 13, 55-76.	2.2	12
36	Email Surveillance Using Non-negative Matrix Factorization. Computational and Mathematical Organization Theory, 2005, 11, 249-264.	1.5	93

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37	Toward Ecosystem Modeling on Computing Grids. <i>Computing in Science and Engineering</i> , 2005, 7, 44-52.	1.2	17
38	Algorithm 844. <i>ACM Transactions on Mathematical Software</i> , 2005, 31, 252-269.	1.6	56
39	Gene clustering by Latent Semantic Indexing of MEDLINE abstracts. <i>Bioinformatics</i> , 2005, 21, 104-115.	1.8	150
40	Planning Transboundary Ecological Risk Assessments at Military Installations. <i>Human and Ecological Risk Assessment (HERA)</i> , 2005, 11, 1193-1215.	1.7	6
41	An SVD-based comparison of nine whole eukaryotic genomes supports a coelomate rather than ecdysozoan lineage. <i>BMC Bioinformatics</i> , 2004, 5, 204.	1.2	31
42	Text Mining using Non-Negative Matrix Factorizations. , 2004, , .		164
43	Knowledge-Enhanced Latent Semantic Indexing. <i>Information Retrieval</i> , 2003, 6, 225-250.	1.6	8
44	Mining longitudinal web queries: Trends and patterns. <i>Journal of the Association for Information Science and Technology</i> , 2003, 54, 743-758.	2.6	160
45	A Comprehensive Whole Genome Bacterial Phylogeny Using Correlated Peptide Motifs Defined in a High Dimensional Vector Space. <i>Journal of Bioinformatics and Computational Biology</i> , 2003, 01, 475-493.	0.3	28
46	Addressing multi-use issues in sustainable forest management with signal-transfer modeling. <i>Forest Ecology and Management</i> , 2002, 165, 295-304.	1.4	8
47	Level search schemes for information filtering and retrieval. <i>Information Processing and Management</i> , 2001, 37, 313-334.	5.4	15
48	Using dendronal signatures for feature extraction and retrieval. <i>International Journal of Imaging Systems and Technology</i> , 2000, 11, 243-253.	2.7	16
49	Solving total least-squares problems in information retrieval. <i>Linear Algebra and Its Applications</i> , 2000, 316, 137-156.	0.4	15
50	Title is missing!. <i>Environmental Modeling and Assessment</i> , 2000, 5, 125-137.	1.2	10
51	Mining consumer product data via latent semantic indexing. <i>Intelligent Data Analysis</i> , 1999, 3, 377-398.	0.4	9
52	The design and implementation of an individual-based predator-prey model for a distributed computing environment. <i>Simulation Modelling Practice and Theory</i> , 1999, 7, 47-70.	0.4	5
53	Matrices, Vector Spaces, and Information Retrieval. <i>SIAM Review</i> , 1999, 41, 335-362.	4.2	527
54	Algorithm 798. <i>ACM Transactions on Mathematical Software</i> , 1999, 25, 353-366.	1.6	23

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55	Parallel individual-based modeling of Everglades deer ecology. IEEE Computational Science and Engineering, 1997, 4, 60-78.	0.6	21
56	Parallelization of the Hoshen-Kopelman Algorithm Using a Finite State Machine. International Journal of High Performance Computing Applications, 1997, 11, 34-48.	1.6	15
57	Parallelization in a spatially explicit individual-based ecological model <sup>1</sup> . Spatial data interpolation. Computers and Geosciences, 1997, 23, 293-304.	2.0	8
58	Large-scale information retrieval with latent semantic indexing. Information Sciences, 1997, 100, 105-137.	4.0	117
59	Lucas: a system for modeling land-use change. IEEE Computational Science and Engineering, 1996, 3, 24-35.	0.6	62
60	Approximating dominant singular triplets of large sparse matrices via modified moments. Numerical Algorithms, 1996, 13, 123-152.	1.1	4
61	Low-rank Orthogonal Decompositions for Information Retrieval Applications. Numerical Linear Algebra With Applications, 1996, 3, 301-327.	0.9	39
62	Low-rank Orthogonal Decompositions for Information Retrieval Applications. , 1996, 3, 301.		7
63	A parallel algorithm for the reduction of a nonsymmetric matrix to block upper-Hessenberg form. Parallel Computing, 1995, 21, 1189-1211.	1.3	29
64	Using latent semantic indexing for multilanguage information retrieval. Computers and the Humanities, 1995, 29, 413-429.	1.4	21
65	Parallel Models of Animal Migration in Northern Yellowstone National Park. International Journal of High Performance Computing Applications, 1995, 9, 237-255.	1.6	8
66	Using Linear Algebra for Intelligent Information Retrieval. SIAM Review, 1995, 37, 573-595.	4.2	1,047
67	PDS: A Performance Database Server. Scientific Programming, 1994, 3, 147-156.	0.5	2
68	Parallel analysis of clusters in landscape ecology. IEEE Computational Science and Engineering, 1994, 1, 24-38.	0.6	16
69	Simulating procurement in the classroom. SIGCSE Bulletin, 1992, 24, 15-19.	0.1	2
70	Large-Scale Sparse Singular Value Computations. The International Journal of Supercomputer Applications, 1992, 6, 13-49.	0.6	297
71	Estimating the largest singular values of large sparse matrices via modified moments. Numerical Algorithms, 1991, 1, 353-373.	1.1	7
72	The use of matrix visualization in algorithmic design. Computing Systems in Engineering: an International Journal, 1990, 1, 63-73.	0.5	1

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73	An overview of parallel algorithms for the singular value and symmetric eigenvalue problems. Journal of Computational and Applied Mathematics, 1989, 27, 191-213.	1.1	31
74	Multiprocessor Schemes for Solving Block Tridiagonal Linear Systems. The International Journal of Supercomputer Applications, 1988, 2, 37-57.	0.6	31
75	Algorithms and experiments for structural mechanics on high-performance architectures. Computer Methods in Applied Mechanics and Engineering, 1987, 64, 487-507.	3.4	15
76	The Use of Text Mining Techniques in Electronic Discovery for Legal Matters. , 0, , 174-190.		1