Thomas Burger

List of Publications by Year
in descending order

47 papers	1,361 citations	623734 14 h-index	395702 33 g-index
53 all docs	53 docs citations	53 times ranked	2141 citing authors

#	Article	IF	Citations
1	Can Omics Biology Go Subjective because of Artificial Intelligence? A Comment on â€œChallenges and Opportunities for Bayesian Statistics in Proteomicsâ€•by Crook et al.. Journal of Proteome Research, 2022, 21, 1783-1786.	3.7	1
2	An analysis of proteogenomics and how and when transcriptome-informed reduction of protein databases can enhance eukaryotic proteomics. Genome Biology, 2022, 23, .	8.8	11
3	CHICKN: extraction of peptide chromatographic elution profiles from large scale mass spectrometry data by means of Wasserstein compressive hierarchical cluster analysis. BMC Bioinformatics, 2021, 22, 68.	2.6	2
4	ProMetIS, deep phenotyping of mouse models by combined proteomics and metabolomics analysis. Scientific Data, 2021, 8, 311.	5.3	6
5	Comprehensive and comparative exploration of the <i>Atp7bâˆ'/âˆ'</i> mouse plasma proteome. Metallomics, 2020, 12, 249-258.	2.4	5
6	Beyond Targetâ€"Decoy Competition: Stable Validation of Peptide and Protein Identifications in Mass Spectrometry-Based Discovery Proteomics. Analytical Chemistry, 2020, 92, 14898-14906.	6.5	39
7	Five simple yet essential steps to correctly estimate the rate of false differentially abundant proteins in mass spectrometry analyses. Journal of Proteomics, 2019, 207, 103441.	2.4	7
8	Protein-Level Statistical Analysis of Quantitative Label-Free Proteomics Data with ProStaR. Methods in Molecular Biology, 2019, 1959, 225-246.	0.9	11
9	PEPA test: fast and powerful differential analysis from relative quantitative proteomics data using shared peptides. Biostatistics, 2019, 20, 632-647.	1.5	1
10	Gentle Introduction to the Statistical Foundations of False Discovery Rate in Quantitative Proteomics. Journal of Proteome Research, 2018, 17, 12-22.	3.7	65
11	Distinguishing between Spectral Clustering and Cluster Analysis of Mass Spectra. Journal of Proteome Research, 2018, 18, 571-573.	3.7	3
12	DAPAR & ProStaR: software to perform statistical analyses in quantitative discovery proteomics. Bioinformatics, 2017, 33, 135-136.	4.1	245
13	Uses and misuses of the fudge factor in quantitative discovery proteomics. Proteomics, 2016, 16, 1955-1960.	2.2	20
14	Calibration plot for proteomics: A graphical tool to visually check the assumptions underlying FDR control in quantitative experiments. Proteomics, 2016, 16, 29-32.	2.2	66
15	Geometric views on conflicting mass functions: From distances to angles. International Journal of Approximate Reasoning, 2016, 70, 36-50.	3.3	18
16	Accounting for the Multiple Natures of Missing Values in Label-Free Quantitative Proteomics Data Sets to Compare Imputation Strategies. Journal of Proteome Research, 2016, 15, 1116-1125.	3.7	345
17	A Consistency-Specificity Trade-Off to Select Source Behavior in Information Fusion. IEEE Transactions on Cybernetics, 2015, 45, 598-609.	9.5	31
18	A Dempsterâ€"Shafer Theory based combination of handwriting recognition systems with multiple rejection strategies. Pattern Recognition, 2015, 48, 534-544.	8.1	33

#	ARTICLE	IF	CITATIONS
19	Mass-spectrometry-based spatial proteomics data analysis using <tt>pRoloc</tt> and <tt>pRolocdata</tt>. Bioinformatics, 2014, 30, 1322-1324.	4.1	85
20	PerTurbo Manifold Learning Algorithm for Weakly Labeled Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1070-1078.	4.9	13
21	A Foundation for Reliable Spatial Proteomics Data Analysis. Molecular and Cellular Proteomics, 2014, 13, 1937-1952.	3.8	49
22	Deciphering Thylakoid Sub-compartments using a Mass Spectrometry-based Approach. Molecular and Cellular Proteomics, 2014, 13, 2147-2167.	3.8	96
23	SAGA: sparse and geometry-aware non-negative matrix factorization through non-linear local embedding. Machine Learning, 2014, 97, 205-226.	5.4	2
24	Geometric Interpretations of Conflict: A Viewpoint. Lecture Notes in Computer Science, 2014, , 412-421.	1.3	0
25	A non-intrusive context-aware system for ambient assisted living in smart home. Health and Technology, 2013, 3, 129-138.	3.6	5
26	Toward an Axiomatic Definition of Conflict Between Belief Functions. IEEE Transactions on Cybernetics, 2013, 43, 585-596.	9.5	63
27	HOW TO RANDOMLY GENERATE MASS FUNCTIONS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2013, 21, 645-673.	1.9	14
28	A Kernel View on Manifold Sub-sampling Based on Karcher Variance Optimization. Lecture Notes in Computer Science, 2013, , 751-758.	1.3	1
29	Selecting Source Behavior in Information Fusion on the Basis of Consistency and Specificity. Lecture Notes in Computer Science, 2013, , 473-484.	1.3	1
30	Random Generation of Mass Functions: A Short Howto. Advances in Intelligent and Soft Computing, 2012, , 145-152.	0.2	5
31	A Non-intrusive Monitoring System for Ambient Assisted Living Service Delivery. Lecture Notes in Computer Science, 2012, , 148-156.	1.3	4
32	Geodesic Analysis on the Gaussian RKHS Hypersphere. Lecture Notes in Computer Science, 2012, , 299-313.	1.3	5
33	Dempster-Shafer Based Rejection Strategy for Handwritten Word Recognition. , 2011, , .		9
34	A Low-Cost Natural User Interaction Based on a Camera Hand-Gestures Recognizer. Lecture Notes in Computer Science, 2011, , 214-221.	1.3	7
35	Constructing Dynamic Frames of Discernment in Cases of Large Number of Classes. Lecture Notes in Computer Science, 2011, , 275-286.	1.3	3
36	Evidential Combination of Multiple HMM Classifiers for Multi-script Handwritting Recognition. Lecture Notes in Computer Science, 2010, , 445-454.	1.3	7

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37	Dealing with Precise and Imprecise Decisions with a Dempster-Shafer Theory Based Algorithm in the Context of Handwritten Word Recognition. , 2010, , .		0
38	A belief-based sequential fusion approach for fusing manual signs and non-manual signals. Pattern Recognition, 2009, 42, 812-822.	8.1	40
39	Sequential Belief-Based Fusion of Manual and Non-manual Information for Recognizing Isolated Signs. Lecture Notes in Computer Science, 2009, , 134-144.	1.3	5
40	A Generalization of the Pignistic Transform for Partial Bet. Lecture Notes in Computer Science, 2009, , 252-263.	1.3	2
41	A Dempster-Shafer Theory Based Combination of Classifiers for Hand Gesture Recognition. Communications in Computer and Information Science, 2008, , 137-150.	0.5	5
42	Gestural Interfaces for Hearing-Impaired Communication. , 2008, , 219-250.		1
43	Cued Speech Gesture Recognition: A First Prototype Based on Early Reduction. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-19.	2.6	1
44	Image and Video for Hearing Impaired People. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-14.	2.6	3
45	Modeling Hesitation and Conflict: A Belief-Based Approach for Multi-class Problems. , 2006, , .		5
46	Extracting Static Hand Gestures in Dynamic Context. , 2006, , .		0
47	Sketched Stochastic Dictionary Learning for large–scale data and application to high–throughput mass spectrometry. Statistical Analysis and Data Mining, 0, , .	2.8	2