

Marina Vannucci

List of Publications by Year in descending order

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136
papers

4,104
citations

159585

30
h-index

149698

56
g-index

141
all docs

141
docs citations

141
times ranked

4687
citing authors

#	ARTICLE	IF	CITATIONS
1	Bayesian statistics and modelling. Nature Reviews Methods Primers, 2021, 1, .	21.2	419
2	Gene selection: a Bayesian variable selection approach. Bioinformatics, 2003, 19, 90-97.	4.1	308
3	Bayesian Variable Selection in Clustering High-Dimensional Data. Journal of the American Statistical Association, 2005, 100, 602-617.	3.1	190
4	Model-Based Clustering for Expression Data via a Dirichlet Process Mixture Model. , 2006, , 201-218.		161
5	A fully Bayesian latent variable model for integrative clustering analysis of multi-type omics data. Biostatistics, 2018, 19, 71-86.	1.5	158
6	Decomposing Intra-Subject Variability in Children with Attention-Deficit/Hyperactivity Disorder. Biological Psychiatry, 2008, 64, 607-614.	1.3	133
7	Variable selection in clustering via Dirichlet process mixture models. Biometrika, 2006, 93, 877-893.	2.4	126
8	Bayesian Inference of Multiple Gaussian Graphical Models. Journal of the American Statistical Association, 2015, 110, 159-174.	3.1	124
9	Incorporating biological information into linear models: A Bayesian approach to the selection of pathways and genes. Annals of Applied Statistics, 2011, 5, 1978-2002.	1.1	119
10	Bayesian Variable Selection in Multinomial Probit Models to Identify Molecular Signatures of Disease Stage. Biometrics, 2004, 60, 812-819.	1.4	110
11	A microarray analysis of sex- and gonad-biased gene expression in the zebrafish: Evidence for masculinization of the transcriptome. BMC Genomics, 2009, 10, 579.	2.8	96
12	Wavelet-Based Nonparametric Modeling of Hierarchical Functions in Colon Carcinogenesis. Journal of the American Statistical Association, 2003, 98, 573-583.	3.1	90
13	Bayesian variable selection for the analysis of microarray data with censored outcomes. Bioinformatics, 2006, 22, 2262-2268.	4.1	77
14	A Bayesian graphical modeling approach to microRNA regulatory network inference. Annals of Applied Statistics, 2010, 4, 2024-2048.	1.1	70
15	An integrative Bayesian Dirichlet-multinomial regression model for the analysis of taxonomic abundances in microbiome data. BMC Bioinformatics, 2017, 18, 94.	2.6	57
16	Fertility drugs and the risk of breast cancer: a meta-analysis and review. Breast Cancer Research and Treatment, 2010, 124, 13-26.	2.5	56
17	Variable Selection for Nonparametric Gaussian Process Priors: Models and Computational Strategies. Statistical Science, 2011, 26, 130-149.	2.8	56
18	Variable selection for discriminant analysis with Markov random field priors for the analysis of microarray data. Bioinformatics, 2011, 27, 495-501.	4.1	55

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19	Sparse Statistical Modelling in Gene Expression Genomics. , 2006, , 155-176.		55
20	Bayesian models for functional magnetic resonance imaging data analysis. Wiley Interdisciplinary Reviews: Computational Statistics, 2015, 7, 21-41.	3.9	54
21	NIR and mass spectra classification: Bayesian methods for wavelet-based feature selection. Chemometrics and Intelligent Laboratory Systems, 2005, 77, 139-148.	3.5	50
22	Time-dependence of graph theory metrics in functional connectivity analysis. NeuroImage, 2016, 125, 601-615.	4.2	50
23	A novel wavelet-based thresholding method for the pre-processing of mass spectrometry data that accounts for heterogeneous noise. Proteomics, 2008, 8, 3019-3029.	2.2	47
24	Comparison of algorithms for pre-processing of SELDI-TOF mass spectrometry data. Bioinformatics, 2008, 24, 2129-2136.	4.1	46
25	A systems biology approach reveals common metastatic pathways in osteosarcoma. BMC Systems Biology, 2012, 6, 50.	3.0	45
26	A spatio-temporal nonparametric Bayesian variable selection model of fMRI data for clustering correlated time courses. NeuroImage, 2014, 95, 162-175.	4.2	43
27	A spatiotemporal nonparametric Bayesian model of multi-subject fMRI data. Annals of Applied Statistics, 2016, 10, .	1.1	40
28	Regularized partial least squares with an application to NMR spectroscopy. Statistical Analysis and Data Mining, 2013, 6, 302-314.	2.8	39
29	A Bayesian Approach for Estimating Dynamic Functional Network Connectivity in fMRI Data. Journal of the American Statistical Association, 2018, 113, 134-151.	3.1	39
30	Identification of DNA regulatory motifs using Bayesian variable selection. Bioinformatics, 2004, 20, 2553-2561.	4.1	33
31	Assessing Side-Chain Perturbations of the Protein Backbone: A Knowledge-Based Classification of Residue Ramachandran Space. Journal of Molecular Biology, 2008, 378, 749-758.	4.2	33
32	Spiked Dirichlet process prior for Bayesian multiple hypothesis testing in random effects models. Bayesian Analysis, 2009, 4, 707-732.	3.0	33
33	A Bayesian Hierarchical Model for Classification with Selection of Functional Predictors. Biometrics, 2010, 66, 463-473.	1.4	33
34	Detecting Traffic Anomalies through Aggregate Analysis of Packet Header Data. Lecture Notes in Computer Science, 2004, , 1047-1059.	1.3	33
35	An Integrative Bayesian Modeling Approach to Imaging Genetics. Journal of the American Statistical Association, 2013, 108, 876-891.	3.1	32
36	Joint Bayesian variable and graph selection for regression models with network-structured predictors. Statistics in Medicine, 2016, 35, 1017-1031.	1.6	32

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37	Density Estimation for Protein Conformation Angles Using a Bivariate von Mises Distribution and Bayesian Nonparametrics. <i>Journal of the American Statistical Association</i> , 2009, 104, 586-596.	3.1	31
38	A Chemoprotective Fish Oil- and Pectin-Containing Diet Temporally Alters Gene Expression Profiles in Exfoliated Rat Colonocytes throughout Oncogenesis. <i>Journal of Nutrition</i> , 2011, 141, 1029-1035.	2.9	30
39	Investigating Multiple Candidate Genes and Nutrients in the Folate Metabolism Pathway to Detect Genetic and Nutritional Risk Factors for Lung Cancer. <i>PLoS ONE</i> , 2013, 8, e53475.	2.5	29
40	Temporal and spectral characteristics of dynamic functional connectivity between resting-state networks reveal information beyond static connectivity. <i>PLoS ONE</i> , 2018, 13, e0190220.	2.5	26
41	Biosensor Approach to Psychopathology Classification. <i>PLoS Computational Biology</i> , 2010, 6, e1000966.	3.2	24
42	Epilepsy as a dynamic disease: A Bayesian model for differentiating seizure risk from natural variability. <i>Epilepsia Open</i> , 2018, 3, 236-246.	2.4	24
43	Probabilistic Models for Modulus of Elasticity of Self-Consolidated Concrete: Bayesian Approach. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 295-306.	2.9	23
44	Inferring metabolic networks using the Bayesian adaptive graphical lasso with informative priors. <i>Statistics and Its Interface</i> , 2013, 6, 547-558.	0.3	23
45	Wavelet Packet Methods for the Analysis of Variance of Time Series With Application to Crack Widths on the Brunelleschi Dome. <i>Journal of Computational and Graphical Statistics</i> , 2004, 13, 639-658.	1.7	22
46	Bayesian vector autoregressive model for multi-subject effective connectivity inference using multi-modal neuroimaging data. <i>Human Brain Mapping</i> , 2017, 38, 1311-1332.	3.6	22
47	Investigating the evolution and structure of chemokine receptors. <i>Gene</i> , 2003, 317, 29-37.	2.2	21
48	Bayesian wavelet analysis of autoregressive fractionally integrated moving-average processes. <i>Journal of Statistical Planning and Inference</i> , 2006, 136, 3415-3434.	0.6	20
49	Salient body image concerns of patients with cancer undergoing head and neck reconstruction. <i>Head and Neck</i> , 2016, 38, 1035-1042.	2.0	20
50	Prospective validation study of an epilepsy seizure risk system for outpatient evaluation. <i>Epilepsia</i> , 2020, 61, 29-38.	5.1	20
51	Evidence of state-dependence in the effectiveness of responsive neurostimulation for seizure modulation. <i>Brain Stimulation</i> , 2021, 14, 366-375.	1.6	20
52	Gene Selection in Arthritis Classification with Large-Scale Microarray Expression Profiles. <i>Comparative and Functional Genomics</i> , 2003, 4, 171-181.	2.0	19
53	Characterization of biological pathways associated with a 1.37 Mbp genomic region protective of hypertension in Dahl S rats. <i>Physiological Genomics</i> , 2014, 46, 398-410.	2.3	19
54	A Bayesian mixture model for clustering and selection of feature occurrence rates under mean constraints. <i>Statistical Analysis and Data Mining</i> , 2017, 10, 393-409.	2.8	19

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55	Transforming growth factor- β 2 signaling in hypertensive remodeling of porcine aorta. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H2044-H2053.	3.2	18
56	A Dirichlet process mixture of hidden Markov models for protein structure prediction. <i>Annals of Applied Statistics</i> , 2010, 4, 916-942.	1.1	18
57	Increased Proliferative Cells in the Medullary Thick Ascending Limb of the Loop of Henle in the Dahl Salt-Sensitive Rat. <i>Hypertension</i> , 2013, 61, 208-215.	2.7	18
58	Analysis of Normal-Tumour Tissue Interaction in Tumours: Prediction of Prostate Cancer Features from the Molecular Profile of Adjacent Normal Cells. <i>PLoS ONE</i> , 2011, 6, e16492.	2.5	17
59	Detecting Traffic Anomalies Using Discrete Wavelet Transform. <i>Lecture Notes in Computer Science</i> , 2004, , 951-961.	1.3	16
60	Wavelet Thresholding with Bayesian False Discovery Rate Control. <i>Biometrics</i> , 2005, 61, 25-35.	1.4	16
61	An efficient stochastic search for Bayesian variable selection with high-dimensional correlated predictors. <i>Computational Statistics and Data Analysis</i> , 2011, 55, 2807-2818.	1.2	16
62	Bayesian graphical models for modern biological applications. <i>Statistical Methods and Applications</i> , 2022, 31, 197-225.	1.2	16
63	A Transparent Tool for Seemingly Difficult Calibrations: The Parallel Calibration Method. <i>Analytical Chemistry</i> , 2000, 72, 135-140.	6.5	14
64	Bayesian Model of Protein Primary Sequence for Secondary Structure Prediction. <i>PLoS ONE</i> , 2014, 9, e109832.	2.5	14
65	Bayesian wavelet-based curve classification via discriminant analysis with Markov random tree priors. <i>Statistica Sinica</i> , 2012, 22, 465-488.	0.3	14
66	Bayesian Graphical Network Analyses Reveal Complex Biological Interactions Specific to Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 44, 917-925.	2.6	13
67	Spiked Dirichlet Process Priors for Gaussian Process Models. <i>Journal of Probability and Statistics</i> , 2010, 2010, 1-14.	0.7	12
68	A hierarchical Bayesian model for inference of copy number variants and their association to gene expression. <i>Annals of Applied Statistics</i> , 2014, 8, 148-175.	1.1	12
69	Hierarchical Normalized Completely Random Measures to Cluster Grouped Data. <i>Journal of the American Statistical Association</i> , 2020, 115, 318-333.	3.1	12
70	Models and computational strategies linking physiological response to molecular networks from large-scale data. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3067-3089.	3.4	11
71	Characterizing the regularity of tetrahedral packing motifs in protein tertiary structure. <i>Bioinformatics</i> , 2010, 26, 3059-3066.	4.1	11
72	A Bayesian model of microbiome data for simultaneous identification of covariate associations and prediction of phenotypic outcomes. <i>Annals of Applied Statistics</i> , 2020, 14, .	1.1	11

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73	Transcriptomic analysis reveals inflammatory and metabolic pathways that are regulated by renal perfusion pressure in the outer medulla of Dahl-S rats. <i>Physiological Genomics</i> , 2018, 50, 440-447.	2.3	10
74	Bayesian Negative Binomial Mixture Regression Models for the Analysis of Sequence Count and Methylation Data. <i>Biometrics</i> , 2019, 75, 183-192.	1.4	10
75	A Bayesian Nonparametric Spiked Process Prior for Dynamic Model Selection. <i>Bayesian Analysis</i> , 2019, 14, .	3.0	10
76	Bayesian inference of networks across multiple sample groups and data types. <i>Biostatistics</i> , 2020, 21, 561-576.	1.5	10
77	Hierarchical Normalized Completely Random Measures for Robust Graphical Modeling. <i>Bayesian Analysis</i> , 2019, 14, 1271-1301.	3.0	10
78	Identifying biomarkers from mass spectrometry data with ordinal outcome. <i>Cancer Informatics</i> , 2007, 3, 19-28.	1.9	10
79	Identifying Biomarkers from Mass Spectrometry Data with Ordinal Outcome. <i>Cancer Informatics</i> , 2007, 3, 117693510700300.	1.9	9
80	A Hierarchical Bayesian Model for the Identification of PET Markers Associated to the Prediction of Surgical Outcome after Anterior Temporal Lobe Resection. <i>Frontiers in Neuroscience</i> , 2017, 11, 669.	2.8	9
81	A Bayesian Approach for Learning Gene Networks Underlying Disease Severity in COPD. <i>Statistics in Biosciences</i> , 2018, 10, 59-85.	1.2	9
82	Individual Differences in the Neural and Cognitive Mechanisms of Single Word Reading. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 271.	2.0	9
83	Bayesian modeling of multiple structural connectivity networks during the progression of Alzheimer's disease. <i>Biometrics</i> , 2020, 76, 1120-1132.	1.4	9
84	Latent Network Estimation and Variable Selection for Compositional Data Via Variational EM. <i>Journal of Computational and Graphical Statistics</i> , 2022, 31, 163-175.	1.7	9
85	A Bayesian time-varying effect model for behavioral mHealth data. <i>Annals of Applied Statistics</i> , 2020, 14, 1878-1902.	1.1	9
86	Bayesian Methods for Wavelet Series in Single-Index Models. <i>Journal of Computational and Graphical Statistics</i> , 2005, 14, 770-794.	1.7	8
87	Simultaneous inference for multiple testing and clustering via a Dirichlet process mixture model. <i>Statistical Modelling</i> , 2008, 8, 23-39.	1.1	8
88	Bayesian variable selection for a semi-competing risks model with three hazard functions. <i>Computational Statistics and Data Analysis</i> , 2017, 112, 170-185.	1.2	8
89	NPBayes-fMRI: Non-parametric Bayesian General Linear Models for Single- and Multi-Subject fMRI Data. <i>Statistics in Biosciences</i> , 2019, 11, 3-21.	1.2	8
90	Preventing the Dirac disaster: Wavelet based density estimation. <i>Journal of the Italian Statistical Society</i> , 1997, 6, 145-159.	0.1	7

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91	Gene Expression Profiling of Long-Term Changes in Rat Liver Following Burn Injury. <i>Journal of Surgical Research</i> , 2009, 152, 3-17.e2.	1.6	7
92	A Wavelet-Based Bayesian Approach to Regression Models with Long Memory Errors and Its Application to fMRI Data. <i>Biometrics</i> , 2013, 69, 184-196.	1.4	7
93	Bayesian variable selection in clustering high-dimensional data with substructure. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2008, 13, 407-423.	1.4	6
94	Information theory provides a comprehensive framework for the evaluation of protein structure predictions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 701-711.	2.6	6
95	Near-Native Protein Loop Sampling Using Nonparametric Density Estimation Accommodating Sparsity. <i>PLoS Computational Biology</i> , 2011, 7, e1002234.	3.2	6
96	Bayesian Networks and Informative Priors: Transcriptional Regulatory Network Models. , 0, , 401-424.		6
97	Scalable Bayesian variable selection regression models for count data. , 2020, , 187-219.		5
98	BVAR-Connect: A Variational Bayes Approach to Multi-Subject Vector Autoregressive Models for Inference on Brain Connectivity Networks. <i>Neuroinformatics</i> , 2021, 19, 39-56.	2.8	5
99	A Network Biology Approach Identifies Molecular Cross-Talk between Normal Prostate Epithelial and Prostate Carcinoma Cells. <i>PLoS Computational Biology</i> , 2016, 12, e1004884.	3.2	5
100	Order-Preserving Dimension Reduction Procedure for the Dominance of Two Mean Curves with Application to Tidal Volume Curves. <i>Biometrics</i> , 2008, 64, 931-939.	1.4	4
101	Order test for high-dimensional two-sample means. <i>Journal of Statistical Planning and Inference</i> , 2012, 142, 2719-2725.	0.6	4
102	Non-parametric Sampling Approximation via Voronoi Tessellations. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2016, 45, 717-736.	1.2	4
103	MicroBVS: Dirichlet-tree multinomial regression models with Bayesian variable selection - an R package. <i>BMC Bioinformatics</i> , 2020, 21, 301.	2.6	4
104	Making Sense of Molecular Signatures in The Immune System. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2004, 7, 231-238.	1.1	4
105	Conservation of Unfavorable Sequence Motifs That Contribute to the Chemokine Quaternary State. <i>Biochemistry</i> , 2008, 47, 10637-10648.	2.5	3
106	Spatial mapping of translational diffusion coefficients using diffusion tensor imaging: A mathematical description. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2014, 43, 1-27.	0.5	3
107	A Bayesian Integrative Model for Genetical Genomics with Spatially Informed Variable Selection. <i>Cancer Informatics</i> , 2014, 13s2, CIN.S13784.	1.9	3
108	A Bayesian model for the identification of differentially expressed genes in <i>Daphnia magna</i> exposed to munition pollutants. <i>Biometrics</i> , 2015, 71, 803-811.	1.4	3

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109	A Bayesian nonparametric approach for the analysis of multiple categorical item responses. <i>Journal of Statistical Planning and Inference</i> , 2015, 166, 52-66.	0.6	3
110	KScons: a Bayesian approach for protein residue contact prediction using the knob-socket model of protein tertiary structure. <i>Bioinformatics</i> , 2016, 32, 3774-3781.	4.1	3
111	Stochastic clustering and pattern matching for real-time geosteering. <i>Geophysics</i> , 2019, 84, ID13-ID24.	2.6	3
112	Two-group Poisson-Dirichlet mixtures for multiple testing. <i>Biometrics</i> , 2021, 77, 622-633.	1.4	3
113	Effective connectivity in the default mode network after paediatric traumatic brain injury. <i>European Journal of Neuroscience</i> , 2022, 55, 318-336.	2.6	3
114	Bayesian Inference for Stationary Points in Gaussian Process Regression Models for Event-Related Potentials Analysis. <i>Biometrics</i> , 2023, 79, 629-641.	1.4	3
115	Effective connectivity between resting-state networks in depression. <i>Journal of Affective Disorders</i> , 2022, 307, 79-86.	4.1	3
116	Detecting protein dissimilarities in multiple alignments using Bayesian variable selection. <i>Bioinformatics</i> , 2007, 23, 245-246.	4.1	2
117	A Bayesian approach to identify genes and gene-level SNP aggregates in a genetic analysis of cancer data. <i>Statistics and Its Interface</i> , 2015, 8, 137-151.	0.3	2
118	iBATCGH: Integrative Bayesian Analysis of Transcriptomic and CGH Data. <i>Abel Symposia</i> , 2016, , 105-123.	0.3	2
119	A Bayesian approach for capturing daily heterogeneity in intra-daily durations time series. <i>Studies in Nonlinear Dynamics and Econometrics</i> , 2013, 17, .	0.3	1
120	Bayesian Model Averaging for Genetic Association Studies. , 0, , 208-223.		1
121	Bayesian Models for Integrative Genomics. , 0, , 272-291.		1
122	A Bayesian hierarchical model for maximizing the vascular adhesion of nanoparticles. <i>Computational Mechanics</i> , 2014, 53, 539-547.	4.0	1
123	A Bayesian Nonparametric Approach for Functional Data Classification with Application to Hepatic Tissue Characterization. <i>Cancer Informatics</i> , 2015, 14s5, CIN.S31933.	1.9	1
124	Challenges in the Analysis of Neuroscience Data. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 131-156.	0.2	1
125	Fish oil and pectin may suppress colon carcinogenesis via inhibition of the MAPK and TGF β pathways. <i>FASEB Journal</i> , 2008, 22, 885.8.	0.5	1
126	Correction to: A Bayesian model of microbiome data for simultaneous identification of covariate associations and prediction of phenotypic outcomes. <i>Annals of Applied Statistics</i> , 2022, 16, .	1.1	1

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127	Bayesian continuous-time hidden Markov models with covariate selection for intensive longitudinal data with measurement error.. Psychological Methods, 2023, 28, 880-894.	3.5	1
128	Understanding the general packing rearrangements required for successful template based modeling of protein structure from a CASP experiment. Computational Biology and Chemistry, 2013, 42, 40-48.	2.3	0
129	Functional Enrichment Testing: A Survey of Statistical Methods. , 0, , 423-444.		0
130	A fish oil/pectin diet beneficially altered gene profiles during radiation-enhanced colon carcinogenesis. FASEB Journal, 2008, 22, 885.9.	0.5	0
131	A fish oil/pectin diet suppresses radiation-enhanced colon carcinogenesis via down-regulation of the β -catenin signaling pathway. FASEB Journal, 2009, 23, 897.6.	0.5	0
132	Chemoprotective fish oil/pectin diets temporally alter gene expression profiles in exfoliated colonocytes. FASEB Journal, 2009, 23, 222.2.	0.5	0
133	Dirichlet-Multinomial Regression Models with Bayesian Variable Selection for Microbiome Data. Frontiers in Probability and the Statistical Sciences, 2021, , 249-270.	0.1	0
134	Rejoinder to the discussion of "Bayesian graphical models for modern biological applications". Statistical Methods and Applications, 0, , .	1.2	0
135	Identification of Biomarkers in Classification and Clustering of High-Throughput Data. , 0, , 97-115.		0
136	Identification of DNA Regulatory Motifs and Regulators by Integrating Gene Expression and Sequence Data. , 0, , 333-346.		0