

Sayan Mukherjee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	28,690 citations	29 h-index	98 g-index
98 ext. papers	38,165 ext. citations	5.9 avg, IF	6.29 L-index

#	Paper	IF	Citations
92	A Grover Search-Based Algorithm for the List Coloring Problem. <i>IEEE Transactions on Quantum Engineering</i> , 2022 , 3, 1-8	2.9	
91	A topological data analytic approach for discovering biophysical signatures in protein dynamics.. <i>PLoS Computational Biology</i> , 2022 , 18, e1010045	5	1
90	Multistability and chaotic scenario in a quantum pair-ion plasma. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2021 , 76, 109-119	1.4	9
89	Neural Sequence Transformation. <i>Computer Graphics Forum</i> , 2021 , 40, 131-140	2.4	
88	Exploring noise-induced chaos and complexity in a red blood cell system. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1517	2.3	1
87	Statistical robustness of Markov chain Monte Carlo accelerators 2021 ,		2
86	A study on dynamics and multiscale complexity of a neuro system. <i>Chaos, Solitons and Fractals</i> , 2021 , 145, 110737	9.3	0
85	Multistability and chaos in a noise-induced blood flow. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1525-1533	2.3	4
84	Measuring and mitigating PCR bias in microbiota datasets. <i>PLoS Computational Biology</i> , 2021 , 17, e1009113	15.13	7
83	Maximum \mathcal{H} -free subgraphs. <i>Electronic Journal of Combinatorics</i> , 2021 , 12, 185-214	0	
82	Dynamical Complexity and Multistability in a Novel Lunar Wake Plasma System. <i>Complexity</i> , 2020 , 2020, 1-11	1.6	7
81	Stochastic dynamics of Michaelis-Menten kinetics based tumor-immune interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 541, 123603	3.3	13
80	Characterizing chaos and multifractality in noise-assisted tumor-immune interplay. <i>Nonlinear Dynamics</i> , 2020 , 101, 675-685	5	11
79	In Search of Chaos and Complexity of a Cognitive Language-Learning System. <i>Complexity</i> , 2020 , 2020, 1-10	1.6	
78	Predicting Clinical Outcomes in Glioblastoma: An Application of Topological and Functional Data Analysis. <i>Journal of the American Statistical Association</i> , 2020 , 115, 1139-1150	2.8	25
77	Signature of complexity in time-frequency domain. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 535, 122433	3.3	5
76	An investigation on Michaelis - Menten kinetics based complex dynamics of tumor - immune interaction. <i>Chaos, Solitons and Fractals</i> , 2019 , 128, 297-305	9.3	17

75	A study on dynamical complexity of noise induced blood flow. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 2769-2777	2.3	6
74	Expected return time to the initial state for biochemical systems with linear cyclic chains: unidirectional and bidirectional reactions. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019 , 44, 1	1	
73	Fast Moment Estimation for Generalized Latent Dirichlet Models. <i>Journal of the American Statistical Association</i> , 2018 , 113, 1528-1540	2.8	0
72	Bayesian Approximate Kernel Regression with Variable Selection. <i>Journal of the American Statistical Association</i> , 2018 , 113, 1710-1721	2.8	16
71	Dispersive graded entropy on computing dynamical complexity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 508, 131-140	3.3	6
70	Complexity in synchronized and non-synchronized states: A comparative analysis and application. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 2219-2234	2.3	6
69	Computing two dimensional Poincaré maps for hyperchaotic dynamics. <i>Applied Mathematics and Computation</i> , 2017 , 301, 140-154	2.7	5
68	Optical complexity in external cavity semiconductor laser. <i>Optics Communications</i> , 2017 , 387, 257-266	2	15
67	Communication scheme using a hyperchaotic semiconductor laser model: Chaos shift key revisited. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	9
66	Complexity in congestive heart failure: A time-frequency approach. <i>Chaos</i> , 2016 , 26, 033105	3.3	20
65	Complexity and synchronization in stochastic chaotic systems. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 159-170	2.3	14
64	Synchronization and secure communication in time delayed semiconductor laser systems. <i>Optik</i> , 2016 , 127, 10930-10947	2.5	11
63	Some Time-Delay Finding Measures and Attractor Reconstruction. <i>Understanding Complex Systems</i> , 2015 , 215-256	0.4	0
62	Can complexity decrease in congestive heart failure?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 439, 93-102	3.3	36
61	The topology of probability distributions on manifolds. <i>Probability Theory and Related Fields</i> , 2015 , 161, 651-686	1.4	29
60	A Cheeger-type inequality on simplicial complexes. <i>Advances in Applied Mathematics</i> , 2014 , 56, 56-77	0.8	22
59	Fractal Means for Distributions of Persistence Diagrams. <i>Discrete and Computational Geometry</i> , 2014 , 52, 44-70	0.6	74
58	Phase synchronization of instrumental music signals. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 1561-1577	2.3	1

57	Statistical analysis of crystallization database links protein physico-chemical features with crystallization mechanisms. <i>PLoS ONE</i> , 2014 , 9, e101123	3.7	15
56	A digital network approach to infer sex behavior in emerging HIV epidemics. <i>PLoS ONE</i> , 2014 , 9, e101416	5.7	4
55	Approximate discrete dynamics of EMG signal. <i>Applied Mathematics and Computation</i> , 2014 , 243, 879-888	2.7	2
54	Core and region-enriched networks of behaviorally regulated genes and the singing genome. <i>Science</i> , 2014 , 346, 1256-780	33.3	81
53	Partial Factor Modeling: Predictor-Dependent Shrinkage for Linear Regression. <i>Journal of the American Statistical Association</i> , 2013 , 108, 999-1008	2.8	8
52	A comparative study of covariance selection models for the inference of gene regulatory networks. <i>Journal of Biomedical Informatics</i> , 2013 , 46, 894-904	10.2	12
51	A high dimensional delay selection for the reconstruction of proper phase space with cross auto-correlation. <i>Neurocomputing</i> , 2013 , 113, 49-57	5.4	13
50	Is one dimensional Poincaré map sufficient to describe the chaotic dynamics of a three dimensional system?. <i>Applied Mathematics and Computation</i> , 2013 , 219, 11056-11064	2.7	6
49	Distinct and overlapping sarcoma subtypes initiated from muscle stem and progenitor cells. <i>Cell Reports</i> , 2013 , 5, 933-40	10.6	44
48	Sustained-input switches for transcription factors and microRNAs are central building blocks of eukaryotic gene circuits. <i>Genome Biology</i> , 2013 , 14, R85	18.3	13
47	Assessing the radiation response of lung cancer with different gene mutations using genetically engineered mice. <i>Frontiers in Oncology</i> , 2013 , 3, 72	5.3	26
46	Genome-wide identification and predictive modeling of tissue-specific alternative polyadenylation. <i>Bioinformatics</i> , 2013 , 29, i108-16	7.2	21
45	Kernel Sliced Inverse Regression: Regularization and Consistency. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-11	0.7	5
44	DNase-seq predicts regions of rotational nucleosome stability across diverse human cell types. <i>Genome Research</i> , 2013 , 23, 1118-29	9.7	21
43	Dissecting high-dimensional phenotypes with bayesian sparse factor analysis of genetic covariance matrices. <i>Genetics</i> , 2013 , 194, 753-67	4	41
42	Cyclin-dependent kinases are regulators and effectors of oscillations driven by a transcription factor network. <i>Molecular Cell</i> , 2012 , 45, 669-79	17.6	46
41	Genetics of gene expression responses to temperature stress in a sea urchin gene network. <i>Molecular Ecology</i> , 2012 , 21, 4547-62	5.7	60
40	New types of nonlinear auto-correlations of bivariate data and their applications. <i>Applied Mathematics and Computation</i> , 2012 , 218, 8951-8967	2.7	9

39	Integrating genetic and gene expression evidence into genome-wide association analysis of gene sets. <i>Genome Research</i> , 2012 , 22, 386-97	9.7	77
38	Genetic effects on mating success and partner choice in a social mammal. <i>American Naturalist</i> , 2012 , 180, 113-29	3.7	18
37	A predictive framework for integrating disparate genomic data types using sample-specific gene set enrichment analysis and multi-task learning. <i>PLoS ONE</i> , 2012 , 7, e44635	3.7	4
36	Discovering genetic variants in Crohn's disease by exploring genomic regions enriched of weak association signals. <i>Digestive and Liver Disease</i> , 2011 , 43, 623-31	3.3	4
35	Probability measures on the space of persistence diagrams. <i>Inverse Problems</i> , 2011 , 27, 124007	2.3	83
34	Estimating variable structure and dependence in multitask learning via gradients. <i>Machine Learning</i> , 2011 , 83, 265-287	4	5
33	RS-SNP: a random-set method for genome-wide association studies. <i>BMC Genomics</i> , 2011 , 12, 166	4.5	1
32	A new technique for the classification of pre-meditative and meditative states 2011 ,		2
31	Localized Sliced Inverse Regression. <i>Journal of Computational and Graphical Statistics</i> , 2010 , 19, 843-860	1.4	8
30	Making Mountains out of Molehills: Moving from Single Gene to Pathway Based Models of Colon Cancer Progression 2010 , 73-87		
29	Evidence-ranked motif identification. <i>Genome Biology</i> , 2010 , 11, R19	18.3	73
28	Learning gradients on manifolds. <i>Bernoulli</i> , 2010 , 16,	1.6	21
27	On the reproducibility of results of pathway analysis in genome-wide expression studies of colorectal cancers. <i>Journal of Biomedical Informatics</i> , 2010 , 43, 397-406	10.2	10
26	Genomic features that predict allelic imbalance in humans suggest patterns of constraint on gene expression variation. <i>Molecular Biology and Evolution</i> , 2009 , 26, 2047-59	8.3	7
25	Comparative study of gene set enrichment methods. <i>BMC Bioinformatics</i> , 2009 , 10, 275	3.6	78
24	Do serum biomarkers really measure breast cancer?. <i>BMC Cancer</i> , 2009 , 9, 164	4.8	33
23	Cross species genomic analysis identifies a mouse model as undifferentiated pleomorphic sarcoma/malignant fibrous histiocytoma. <i>PLoS ONE</i> , 2009 , 4, e8075	3.7	54
22	Modeling cancer progression via pathway dependencies. <i>PLoS Computational Biology</i> , 2008 , 4, e28	5	54

21	Age-specific differences in oncogenic pathway deregulation seen in human breast tumors. <i>PLoS ONE</i> , 2008 , 3, e1373	3.7	65
20	An integrated approach to the prediction of chemotherapeutic response in patients with breast cancer. <i>PLoS ONE</i> , 2008 , 3, e1908	3.7	71
19	Gene expression programs of human smooth muscle cells: tissue-specific differentiation and prognostic significance in breast cancers. <i>PLoS Genetics</i> , 2007 , 3, 1770-84	6	48
18	The Use of Unlabeled Data in Predictive Modeling. <i>Statistical Science</i> , 2007 , 22, 189	2.4	21
17	Decision Fusion of Circulating Markers for Breast Cancer Detection in Premenopausal Women 2007 , ,		2
16	Analysis of sample set enrichment scores: assaying the enrichment of sets of genes for individual samples in genome-wide expression profiles. <i>Bioinformatics</i> , 2006 , 22, e108-16	7.2	54
15	Evidence of influence of genomic DNA sequence on human X chromosome inactivation. <i>PLoS Computational Biology</i> , 2006 , 2, e113	5	72
14	Gene expression changes and molecular pathways mediating activity-dependent plasticity in visual cortex. <i>Nature Neuroscience</i> , 2006 , 9, 660-8	25.5	174
13	Learning theory: stability is sufficient for generalization and necessary and sufficient for consistency of empirical risk minimization. <i>Advances in Computational Mathematics</i> , 2006 , 25, 161-193	1.6	73
12	Gene set enrichment analysis: a knowledge-based approach for interpreting genome-wide expression profiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15545-50	11.5	24578
11	An oncogenic KRAS2 expression signature identified by cross-species gene-expression analysis. <i>Nature Genetics</i> , 2005 , 37, 48-55	36.3	361
10	Risk bounds for mixture density estimation. <i>ESAIM - Probability and Statistics</i> , 2005 , 9, 220-229	0.4	29
9	General conditions for predictivity in learning theory. <i>Nature</i> , 2004 , 428, 419-22	50.4	148
8	Estimating dataset size requirements for classifying DNA microarray data. <i>Journal of Computational Biology</i> , 2003 , 10, 119-42	1.7	191
7	Optimal gene expression analysis by microarrays. <i>Cancer Cell</i> , 2002 , 2, 353-61	24.3	128
6	Choosing Multiple Parameters for Support Vector Machines. <i>Machine Learning</i> , 2002 , 46, 131-159	4	1320
5	Fractal Patterns in Nonlinear Dynamics and Applications		16
4	Learning Subspaces of Different Dimensions. <i>Journal of Computational and Graphical Statistics</i> , 1-35	1.4	

3	Dynamic linear models guide design and analysis of microbiota studies within artificial human guts	2
2	Detecting Epistasis with the Marginal Epistasis Test in Genetic Mapping Studies of Quantitative Traits	1
1	A phylogenetic transform enhances analysis of compositional microbiota data	3