

Jens Timmer

List of Publications by Year in descending order

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246

papers

11,574

citations

22153

59

h-index

38395

95

g-index

262

all docs

262

docs citations

262

times ranked

14341

citing authors

#	ARTICLE	IF	CITATIONS
1	MSPypeline: a python package for streamlined data analysis of mass spectrometry-based proteomics. <i>Bioinformatics Advances</i> , 2022, 2, .	2.4	6
2	Preventing COVID-19 outbreaks through surveillance testing in healthcare facilities: a modelling study. <i>BMC Infectious Diseases</i> , 2022, 22, 105.	2.9	13
3	Optimal Experimental Design Based on Two-Dimensional Likelihood Profiles. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 800856.	3.5	1
4	Efficient simulation of clinical target response surfaces. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2022, 11, 512-523.	2.5	2
5	Disentangling ERBB Signaling in Breast Cancer Subtypesâ€”A Model-Based Analysis. <i>Cancers</i> , 2022, 14, 2379.	3.7	4
6	Dynamic modeling of Nrf2 pathway activation in liver cells after toxicant exposure. <i>Scientific Reports</i> , 2022, 12, 7336.	3.3	7
7	Individualizing deep dynamic models for psychological resilience data. <i>Scientific Reports</i> , 2022, 12, 8061.	3.3	2
8	Liquid-liquid phase separation of light-inducible transcription factors increases transcription activation in mammalian cells and mice. <i>Science Advances</i> , 2021, 7, .	10.3	73
9	PEtabâ€”Interoperable specification of parameter estimation problems in systems biology. <i>PLoS Computational Biology</i> , 2021, 17, e1008646.	3.2	55
10	On structural and practical identifiability. <i>Current Opinion in Systems Biology</i> , 2021, 25, 60-69.	2.6	127
11	Cross-TCR Antagonism Revealed by Optogenetically Tuning the Half-Life of the TCR Ligand Binding. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4920.	4.1	5
12	Cell-to-cell variability in JAK2/STAT5 pathway components and cytoplasmic volumes defines survival threshold in erythroid progenitor cells. <i>Cell Reports</i> , 2021, 36, 109507.	6.4	10
13	Magnitude of Ubiquitination Determines the Fate of Epidermal Growth Factor Receptor Upon Ligand Stimulation. <i>Journal of Molecular Biology</i> , 2021, 433, 167240.	4.2	3
14	Identification of Interleukin1Î² as an Amplifier of Interferon alpha-induced Antiviral Responses. <i>PLoS Pathogens</i> , 2020, 16, e1008461.	4.7	5
15	Optogenetic control of gene expression in plants in the presence of ambient white light. <i>Nature Methods</i> , 2020, 17, 717-725.	19.0	72
16	Covid-19 in Deutschland â€” Erkl�rung, Prognose und Einfluss gesundheitspolitischer Ma�nahmen. <i>Perspektiven Der Wirtschaftspolitik</i> , 2020, 21, 250-262.	0.4	9
17	Disentangling molecular mechanisms regulating sensitization of interferon alpha signal transduction. <i>Molecular Systems Biology</i> , 2020, 16, e8955.	7.2	41
18	Synthetic biology-inspired design of signal-amplifying materials systems. <i>Materials Today</i> , 2019, 22, 25-34.	14.2	21

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19	Deconstructing and Reconstructing Resilience: A Dynamic Network Approach. Perspectives on Psychological Science, 2019, 14, 765-777.	9.0	145
20	Extensions of ℓ_1 regularization increase detection specificity for cell-type specific parameters in dynamic models. BMC Bioinformatics, 2019, 20, 395.	2.6	8
21	Mathematical modeling of drug-induced receptor internalization in the HER2-positive SKBR3 breast cancer cell-line. Scientific Reports, 2019, 9, 12709.	3.3	20
22	Biofunctionalized Materials Featuring Feedforward and Feedback Circuits Exemplified by the Detection of Botulinum Toxin A. Advanced Science, 2019, 6, 1801320.	11.2	11
23	Local Riemannian geometry of model manifolds and its implications for practical parameter identifiability. PLoS ONE, 2019, 14, e0217837.	2.5	9
24	Mapping connections in signaling networks with ambiguous modularity. Npj Systems Biology and Applications, 2019, 5, 19.	3.0	9
25	Biomaterials: Phytochrome-Based Extracellular Matrix with Reversibly Tunable Mechanical Properties (Adv. Mater. 12/2019). Advanced Materials, 2019, 31, 1970083.	21.0	1
26	Recipes for Analysis of Molecular Networks Using the Data2Dynamics Modeling Environment. Methods in Molecular Biology, 2019, 1945, 341-362.	0.9	4
27	Estimating chain lengths for time delays in dynamical systems using profile likelihood. Bioinformatics, 2019, 36, 1848-1854.	4.1	0
28	Functional Proteomics of Breast Cancer Metabolism Identifies GLUL as Responder during Hypoxic Adaptation. Journal of Proteome Research, 2019, 18, 1352-1362.	3.7	9
29	Benchmark problems for dynamic modeling of intracellular processes. Bioinformatics, 2019, 35, 3073-3082.	4.1	61
30	Dynamic Modeling, Parameter Estimation, and Uncertainty Analysis in $\langle i \rangle R \langle /i \rangle$. Journal of Statistical Software, 2019, 88, .	3.7	20
31	Profile likelihood-based analyses of infectious disease models. Statistical Methods in Medical Research, 2018, 27, 1979-1998.	1.5	22
32	A Green-Light-Responsive System for the Control of Transgene Expression in Mammalian and Plant Cells. ACS Synthetic Biology, 2018, 7, 1349-1358.	3.8	60
33	A Dynamic Mathematical Model of Bile Acid Clearance in HepaRG Cells. Toxicological Sciences, 2018, 161, 48-57.	3.1	4
34	Synthetic Biology Makes Polymer Materials Count. Advanced Materials, 2018, 30, e1800472.	21.0	22
35	Resolving the Combinatorial Complexity of Smad Protein Complex Formation and Its Link to Gene Expression. Cell Systems, 2018, 6, 75-89.e11.	6.2	55
36	BRAF V600E Mutations in Nevi and Melanocytic Tumors of Uncertain Malignant Potential. Journal of Investigative Dermatology, 2018, 138, 2489-2491.	0.7	5

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37	Biomaterials: Synthetic Biology Makes Polymer Materials Count (Adv. Mater. 21/2018). Advanced Materials, 2018, 30, 1870150.	21.0	0
38	Characterization of the synthetic biology-inspired implementation of a materials-based positive feedback loop. Data in Brief, 2018, 19, 665-677.	1.0	7
39	Model-based identification of TNF α -induced IKK β -mediated and I κ B α -mediated regulation of NF κ B signal transduction as a tool to quantify the impact of drug-induced liver injury compounds. Npj Systems Biology and Applications, 2018, 4, 23.	3.0	19
40	IL-1 β -induced and p38MAPK-dependent activation of the mitogen-activated protein kinase-activated protein kinase 2 (MK2) in hepatocytes: Signal transduction with robust and concentration-independent signal amplification. Journal of Biological Chemistry, 2017, 292, 6291-6302.	3.4	14
41	Quantification of oxygen metabolic rates in Human brain with dynamic ^{17}O MRI: Profile likelihood analysis. Magnetic Resonance in Medicine, 2017, 78, 1157-1167.	3.0	19
42	Predicting ligand-dependent tumors from multi-dimensional signaling features. Npj Systems Biology and Applications, 2017, 3, 27.	3.0	39
43	Protein abundance of AKT and ERK pathway components governs cell type-specific regulation of proliferation. Molecular Systems Biology, 2017, 13, 904.	7.2	72
44	Model Based Targeting of IL-6-Induced Inflammatory Responses in Cultured Primary Hepatocytes to Improve Application of the JAK Inhibitor Ruxolitinib. Frontiers in Physiology, 2017, 8, 775.	2.8	19
45	Hepatocyte Ploidy Is a Diversity Factor for Liver Homeostasis. Frontiers in Physiology, 2017, 8, 862.	2.8	35
46	Mathematical model of early Reelin-induced Src family kinase-mediated signaling. PLoS ONE, 2017, 12, e0186927.	2.5	10
47	Plant-type phytoene desaturase: Functional evaluation of structural implications. PLoS ONE, 2017, 12, e0187628.	2.5	30
48	ℓ_1 regularization facilitates detection of cell type-specific parameters in dynamical systems. Bioinformatics, 2016, 32, i718-i726.	4.1	26
49	Customized Steady-State Constraints for Parameter Estimation in Non-Linear Ordinary Differential Equation Models. Frontiers in Cell and Developmental Biology, 2016, 4, 41.	3.7	19
50	Testing the Pattern of AKT Activation by Variational Parameter Estimation. IEEE Life Sciences Letters, 2016, 2, 13-16.	1.2	2
51	Enzymatic study on AtCCD4 and AtCCD7 and their potential to form acyclic regulatory metabolites. Journal of Experimental Botany, 2016, 67, 5993-6005.	4.8	79
52	Fast integration-based prediction bands for ordinary differential equation models. Bioinformatics, 2016, 32, 1204-1210.	4.1	21
53	A Thymic Epithelial Stem Cell Pool Persists throughout Ontogeny and Is Modulated by TGF- β 2. Cell Reports, 2016, 17, 448-457.	6.4	12
54	Dealing with prognostic signature instability: a strategy illustrated for cardiovascular events in patients with end-stage renal disease. BMC Medical Genomics, 2016, 9, 43.	1.5	0

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55	Spatial analysis of riparian forest soil macrofauna and its relation to abiotic soil properties. <i>Pedobiologia</i> , 2016, 59, 27-36.	1.2	22
56	Identification of Cell Type-Specific Differences in Erythropoietin Receptor Signaling in Primary Erythroid and Lung Cancer Cells. <i>PLoS Computational Biology</i> , 2016, 12, e1005049.	3.2	41
57	Proximal Soil Sensing – A Contribution for Species Habitat Distribution Modelling of Earthworms in Agricultural Soils?. <i>PLoS ONE</i> , 2016, 11, e0158271.	2.5	4
58	Driving the Model to Its Limit: Profile Likelihood Based Model Reduction. <i>PLoS ONE</i> , 2016, 11, e0162366.	2.5	79
59	Higher-order Lie symmetries in identifiability and predictability analysis of dynamic models. <i>Physical Review E</i> , 2015, 92, 012920.	2.1	38
60	Networks: On the relation of bi- and multivariate measures. <i>Scientific Reports</i> , 2015, 5, 10805.	3.3	14
61	In vitro study to simulate the intracardiac magnetohydrodynamic effect. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 850-857.	3.0	5
62	Assessing parameter identifiability for dynamic causal modeling of fMRI data. <i>Frontiers in Neuroscience</i> , 2015, 9, 43.	2.8	7
63	Representative Sinusoids for Hepatic Four-Scale Pharmacokinetics Simulations. <i>PLoS ONE</i> , 2015, 10, e0133653.	2.5	47
64	Disentangling the Complexity of HGF Signaling by Combining Qualitative and Quantitative Modeling. <i>PLoS Computational Biology</i> , 2015, 11, e1004192.	3.2	15
65	Summary of the DREAM8 Parameter Estimation Challenge: Toward Parameter Identification for Whole-Cell Models. <i>PLoS Computational Biology</i> , 2015, 11, e1004096.	3.2	35
66	<scp>USP</scp> 18 lack in microglia causes destructive interferonopathy of the mouse brain. <i>EMBO Journal</i> , 2015, 34, 1612-1629.	7.8	178
67	Modeling the inflammatory response in the hypothalamus ensuing heat stroke: Iterative cycle of model calibration, identifiability analysis, experimental design and data collection. <i>Mathematical Biosciences</i> , 2015, 260, 35-46.	1.9	4
68	Assessing the strength of directed influences among neural signals: An approach to noisy data. <i>Journal of Neuroscience Methods</i> , 2015, 239, 47-64.	2.5	16
69	Spatial mapping of dynamic cerebral autoregulation by multichannel near-infrared spectroscopy in high-grade carotid artery disease. <i>Journal of Biomedical Optics</i> , 2014, 19, 097005.	2.6	23
70	The virtual liver: state of the art and future perspectives. <i>Archives of Toxicology</i> , 2014, 88, 2071-2075.	4.2	41
71	Statistical evaluation of forecasts. <i>Physical Review E</i> , 2014, 90, 022133.	2.1	2
72	Cause and cure of sloppiness in ordinary differential equation models. <i>Physical Review E</i> , 2014, 90, 023303.	2.1	27

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73	Orthogonal Optogenetic Triple-Gene Control in Mammalian Cells. ACS Synthetic Biology, 2014, 3, 796-801.	3.8	58
74	PI3Kα-p110α-α-subtype signalling mediates survival, proliferation and neurogenesis of cortical progenitor cells via activation of <sc>mTORC</sc>2. Journal of Neurochemistry, 2014, 130, 255-267.	3.9	55
75	Optimized spectral estimation for nonlinear synchronizing systems. Physical Review E, 2014, 89, 032912.	2.1	4
76	Comparison of approaches for parameter identifiability analysis of biological systems. Bioinformatics, 2014, 30, 1440-1448.	4.1	149
77	The ratio of the lateral correlation length and particle radius determines the density profile of spherical molecules near a fluctuating membrane. Soft Matter, 2014, 10, 8475-8481.	2.7	2
78	A comparative analysis of the bistability switch for platelet aggregation by logic ODE based dynamical modeling. Molecular BioSystems, 2014, 10, 2082.	2.9	8
79	A numerically efficient implementation of the expectation maximization algorithm for state space models. Applied Mathematics and Computation, 2014, 241, 222-232.	2.2	18
80	RPPanalyzer Toolbox: An improved R package for analysis of reverse phase protein array data. BioTechniques, 2014, 57, 125-135.	1.8	36
81	Profile likelihood in systems biology. FEBS Journal, 2013, 280, 2564-2571.	4.7	124
82	Signatures of nonlinearity in single cell noise-induced oscillations. Journal of Theoretical Biology, 2013, 335, 222-234.	1.7	45
83	A red/far-red light-responsive bi-stable toggle switch to control gene expression in mammalian cells. Nucleic Acids Research, 2013, 41, e77-e77.	14.5	161
84	Dynamical modelling of prostaglandin signalling in platelets reveals individual receptor contributions and feedback properties. Molecular BioSystems, 2013, 9, 2520.	2.9	11
85	A Boolean view separates platelet activatory and inhibitory signalling as verified by phosphorylation monitoring including threshold behaviour and integrin modulation. Molecular BioSystems, 2013, 9, 1326.	2.9	16
86	Block-bootstrapping for noisy data. Journal of Neuroscience Methods, 2013, 219, 285-291.	2.5	10
87	MeDIP coupled with a promoter tiling array as a platform to investigate global DNA methylation patterns in AML cells. Leukemia Research, 2013, 37, 102-111.	0.8	14
88	Pre-Clustering of the B Cell Antigen Receptor Demonstrated by Mathematically Extended Electron Microscopy. Frontiers in Immunology, 2013, 4, 427.	4.8	20
89	Multi-chromatic control of mammalian gene expression and signaling. Nucleic Acids Research, 2013, 41, e124-e124.	14.5	138
90	Joining forces of Bayesian and frequentist methodology: a study for inference in the presence of non-identifiability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110544.	3.4	94

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91	Lessons Learned from Quantitative Dynamical Modeling in Systems Biology. PLoS ONE, 2013, 8, e74335.	2.5	275
92	A Systems Biology Study on NF κ B Signaling in Primary Mouse Hepatocytes. Frontiers in Physiology, 2012, 3, 466.	2.8	9
93	Heterogeneous kinetics of AKT signaling in individual cells are accounted for by variable protein concentration. Frontiers in Physiology, 2012, 3, 451.	2.8	43
94	Integration of Boolean models exemplified on hepatocyte signal transduction. Briefings in Bioinformatics, 2012, 13, 365-376.	6.5	35
95	Rewiring and dosing of systems modules as a design approach for synthetic mammalian signaling networks. Molecular BioSystems, 2012, 8, 1824.	2.9	13
96	The EPILEPSIAE database: An extensive electroencephalography database of epilepsy patients. Epilepsia, 2012, 53, 1669-1676.	5.1	127
97	Grading of Dynamic Cerebral Autoregulation Without Blood Pressure Recordings: A Simple Doppler-Based Method. Ultrasound in Medicine and Biology, 2012, 38, 1546-1551.	1.5	3
98	Likelihood based observability analysis and confidence intervals for predictions of dynamic models. BMC Systems Biology, 2012, 6, 120.	3.0	104
99	Network modulation during complex syntactic processing. NeuroImage, 2012, 59, 815-823.	4.2	90
100	Caspase-3 feeds back on caspase-8, Bid and XIAP in type I Fas signaling in primary mouse hepatocytes. Apoptosis: an International Journal on Programmed Cell Death, 2012, 17, 503-515.	4.9	72
101	EPILEPSIAE – A European epilepsy database. Computer Methods and Programs in Biomedicine, 2012, 106, 127-138.	4.7	153
102	Inference of Granger causal time-dependent influences in noisy multivariate time series. Journal of Neuroscience Methods, 2012, 203, 173-185.	2.5	57
103	Experimental Design for Parameter Estimation of Gene Regulatory Networks. PLoS ONE, 2012, 7, e40052.	2.5	62
104	Dynamic Mathematical Modeling of IL13-Induced Signaling in Hodgkin and Primary Mediastinal B-Cell Lymphoma Allows Prediction of Therapeutic Targets. Cancer Research, 2011, 71, 693-704.	0.9	82
105	Photoconversion and Nuclear Trafficking Cycles Determine Phytochrome A's Response Profile to Far-Red Light. Cell, 2011, 146, 813-825.	28.9	151
106	Are prodromes preictal events? A prospective PDA-based study. Epilepsy and Behavior, 2011, 21, 184-188.	1.7	22
107	Identification of Preseizure States in Epilepsy: A Data-Driven Approach for Multichannel EEG Recordings. Frontiers in Computational Neuroscience, 2011, 5, 32.	2.1	21
108	Definition and characterization of the systemic T-cell dysregulation in untreated indolent B-cell lymphoma and very early CLL. Blood, 2011, 117, 3836-3846.	1.4	93

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109	Division of labor by dual feedback regulators controls JAK2/STAT5 signaling over broad ligand range. <i>Molecular Systems Biology</i> , 2011, 7, 516.	7.2	110
110	Control of the specificity of T cell-mediated anti-idiotypic immunity by natural regulatory T cells. <i>Cancer Immunology, Immunotherapy</i> , 2011, 60, 49-60.	4.2	17
111	On the estimation of the direction of information flow in networks of dynamical systems. <i>Journal of Neuroscience Methods</i> , 2011, 196, 182-189.	2.5	5
112	Joint EEG/fMRI state space model for the detection of directed interactions in human brains—a simulation study. <i>Physiological Measurement</i> , 2011, 32, 1725-1736.	2.1	17
113	The course of dynamic cerebral autoregulation during cervical internal carotid artery occlusion. <i>Neurological Research</i> , 2011, 33, 921-926.	1.3	5
114	Zebrafish Pou5f1-dependent transcriptional networks in temporal control of early development. <i>Molecular Systems Biology</i> , 2010, 6, 354.	7.2	77
115	Secondary decline of cerebral autoregulation is associated with worse outcome after intracerebral hemorrhage. <i>Intensive Care Medicine</i> , 2010, 36, 264-271.	8.2	80
116	Model-based extension of high-throughput to high-content data. <i>BMC Systems Biology</i> , 2010, 4, 106.	3.0	10
117	Transcription factors E2F, E2F, and SP-1 are involved in cytokine-independent proliferation of murine hepatocytes. <i>Hepatology</i> , 2010, 52, 2127-2136.	7.3	95
118	Joining the benefits: Combining epileptic seizure prediction methods. <i>Epilepsia</i> , 2010, 51, 1598-1606.	5.1	70
119	An Integrative Model for Phytochrome B Mediated Photomorphogenesis: From Protein Dynamics to Physiology. <i>PLoS ONE</i> , 2010, 5, e10721.	2.5	84
120	Covering a Broad Dynamic Range: Information Processing at the Erythropoietin Receptor. <i>Science</i> , 2010, 328, 1404-1408.	12.6	152
121	A common strategy and database to compare the performance of seizure prediction algorithms. <i>Epilepsy and Behavior</i> , 2010, 17, 154-156.	1.7	12
122	Combining functional and anatomical connectivity reveals brain networks for auditory language comprehension. <i>NeuroImage</i> , 2010, 49, 3187-3197.	4.2	246
123	The apparent electrical conductivity as a surrogate variable for predicting earthworm abundances in tilled soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 584-590.	1.9	10
124	Estimation of Gene Induction Enables a Relevance-Based Ranking of Gene Sets. <i>Journal of Computational Biology</i> , 2009, 16, 959-967.	1.6	4
125	EFFECT OF JUMP DISCONTINUITY FOR PHASE-RANDOMIZED SURROGATE DATA TESTING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 403-408.	1.7	5
126	Systems-level interactions between insulin-EGF networks amplify mitogenic signaling. <i>Molecular Systems Biology</i> , 2009, 5, 256.	7.2	205

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127	Theoretical and experimental analysis links isoform-specific ERK signalling to cell fate decisions. <i>Molecular Systems Biology</i> , 2009, 5, 334.	7.2	72
128	Spleen Tyrosine Kinase Is Overexpressed and Represents a Potential Therapeutic Target in Chronic Lymphocytic Leukemia. <i>Cancer Research</i> , 2009, 69, 5424-5432.	0.9	160
129	Signatures of gene expression noise in cellular systems. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 100, 57-66.	2.9	18
130	Parametric Versus Nonparametric Transfer Function Estimation of Cerebral Autoregulation from Spontaneous Blood-Pressure Oscillations. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2009, 9, 72-82.	1.0	7
131	A novel approach for reliable microarray analysis of microdissected tumor cells from formalin-fixed and paraffin-embedded colorectal cancer resection specimens. <i>Journal of Molecular Medicine</i> , 2009, 87, 211-224.	3.9	38
132	Genome-wide analysis of genetic alterations in Barrett's adenocarcinoma using single nucleotide polymorphism arrays. <i>Laboratory Investigation</i> , 2009, 89, 385-397.	3.7	39
133	Systems biology: experimental design. <i>FEBS Journal</i> , 2009, 276, 923-942.	4.7	220
134	Assessing the strength of directed influences among neural signals using renormalized partial directed coherence. <i>Journal of Neuroscience Methods</i> , 2009, 179, 121-130.	2.5	187
135	High functional connectivity of tremor related subthalamic neurons in Parkinson's disease. <i>Clinical Neurophysiology</i> , 2009, 120, 1755-1761.	1.5	21
136	Cerebral dysautoregulation and the risk of ischemic events in occlusive carotid artery disease. <i>Journal of Neurology</i> , 2008, 255, 1182-1189.	3.6	65
137	Cerebellar Autoregulation Dynamics in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1605-1612.	4.3	34
138	On the Detection of Direct Directed Information Flow in fMRI. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008, 2, 965-974.	10.8	19
139	Tremor-correlated neuronal activity in the subthalamic nucleus of Parkinsonian patients. <i>Neuroscience Letters</i> , 2008, 442, 195-199.	2.1	66
140	Application of a multivariate seizure detection and prediction method to non-invasive and intracranial long-term EEG recordings. <i>Clinical Neurophysiology</i> , 2008, 119, 197-211.	1.5	77
141	A Quantitative and Dynamic Model for Plant Stem Cell Regulation. <i>PLoS ONE</i> , 2008, 3, e3553.	2.5	56
142	Cerebral Autoregulation Dynamics in Acute Ischemic Stroke after rtPA Thrombolysis. <i>Cerebrovascular Diseases</i> , 2008, 26, 147-155.	1.7	81
143	Two-Dimensional Patterning by a Trapping/Depletion Mechanism: The Role of TTG1 and GL3 in Arabidopsis Trichome Formation. <i>PLoS Biology</i> , 2008, 6, e141.	5.6	135
144	A spatial approach to soil-ecological experimentation at landscape scale. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 338-343.	1.9	5

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145	A competitive complex formation mechanism underlies trichome patterning on <i>Arabidopsis</i> leaves. <i>Molecular Systems Biology</i> , 2008, 4, 217.	7.2	89
146	3P-178 Computer simulation and theoretical formulation of stimulus/response relationships of intracellular signaling network cascades (The 46th Annual Meeting of the Biophysical Society of Tj ETQq0 0 0 rgBT Q Overlockd 10 Tf 50 69	0.0	0
147	Systems biology of JAK/STAT signalling. <i>Essays in Biochemistry</i> , 2008, 45, 109-120.	4.7	27
148	Spleen Tyrosine Kinase (SYK) Is Overexpressed and Represents a Potential Therapeutic Target in Chronic Lymphocytic Leukemia. <i>Blood</i> , 2008, 112, 543-543.	1.4	0
149	Distinct Patterns of Systemic Immune Dysregulation in Indolent B Cell Lymphoma. <i>Blood</i> , 2008, 112, 3780-3780.	1.4	0
150	PHASE SYNCHRONIZATION AND COHERENCE ANALYSIS: SENSITIVITY AND SPECIFICITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 3551-3556.	1.7	8
151	DETECTING COUPLING DIRECTIONS IN MULTIVARIATE OSCILLATORY SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 3735-3739.	1.7	11
152	Data-Based Mathematical Modeling of Vectorial Transport across Double-Transfected Polarized Cells. <i>Drug Metabolism and Disposition</i> , 2007, 35, 1476-1481.	3.3	22
153	cDNA Microarray Analysis of Adaptive Changes after Renal Ablation in a Sclerosis-Resistant Mouse Strain. <i>Kidney and Blood Pressure Research</i> , 2007, 30, 377-387.	2.0	8
154	Control of Plant Organ Size by KLUH/CYP78A5-Dependent Intercellular Signaling. <i>Developmental Cell</i> , 2007, 13, 843-856.	7.0	334
155	Genome-wide analysis of DNA copy number changes and LOH in CLL using high-density SNP arrays. <i>Blood</i> , 2007, 109, 1202-1210.	1.4	219
156	Seizure prediction: The impact of long prediction horizons. <i>Epilepsy Research</i> , 2007, 73, 213-217.	1.6	46
157	Testing for phase synchronization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 366, 382-390.	2.1	23
158	Dynamic Pathway Modeling: Feasibility Analysis and Optimal Experimental Design. <i>Annals of the New York Academy of Sciences</i> , 2007, 1115, 212-220.	3.8	13
159	WNT and DKK Determine Hair Follicle Spacing Through a Reaction-Diffusion Mechanism. <i>Science</i> , 2006, 314, 1447-1450.	12.6	538
160	Spatio-temporal patientâ€‘individual assessment of synchronization changes for epileptic seizure prediction. <i>Clinical Neurophysiology</i> , 2006, 117, 2399-2413.	1.5	87
161	Modeling of Single Noninactivating Na ⁺ Channels: Evidence for Two Open and Several Fast Inactivated States. <i>Biophysical Journal</i> , 2006, 90, 3511-3522.	0.5	6
162	Analysis of single ion channel data incorporating time-interval omission and sampling. <i>Journal of the Royal Society Interface</i> , 2006, 3, 87-97.	3.4	4

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163	Oscillatory cerebral hemodynamics—the macro- vs. microvascular level. Journal of the Neurological Sciences, 2006, 250, 103-109.	0.6	120
164	Do False Predictions of Seizures Depend on the State of Vigilance? A Report from Two Seizure-Prediction Methods and Proposed Remedies. Epilepsia, 2006, 47, 2058-2070.	5.1	97
165	Sensitivity and specificity of coherence and phase synchronization analysis. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 26-34.	2.1	34
166	Testing for directed influences among neural signals using partial directed coherence. Journal of Neuroscience Methods, 2006, 152, 210-219.	2.5	259
167	Host cell responses induced by hepatitis C virus binding. Hepatology, 2006, 43, 1326-1336.	7.3	20
168	Gene profiling of polycystic kidneys. Nephrology Dialysis Transplantation, 2006, 21, 1816-1824.	0.7	61
169	Partial Phase Synchronization for Multivariate Synchronizing Systems. Physical Review Letters, 2006, 96, 208103.	7.8	107
170	BISTABILITY AND SELF-OSCILLATIONS IN CELL CYCLE CONTROL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1057-1066.	1.7	4
171	Comparison of linear signal processing techniques to infer directed interactions in multivariate neural systems. Signal Processing, 2005, 85, 2137-2160.	3.7	154
172	Gene expression profiling in polycythaemia vera: overexpression of transcription factor NF-E2. British Journal of Haematology, 2005, 129, 138-150.	2.5	101
173	Design principles of a bacterial signalling network. Nature, 2005, 438, 504-507.	27.8	260
174	Computational processing and error reduction strategies for standardized quantitative data in biological networks. FEBS Journal, 2005, 272, 6400-6411.	4.7	66
175	Estimating rate constants from single ion channel currents when the initial distribution is known. European Biophysics Journal, 2005, 34, 306-313.	2.2	4
176	Incomplete Forced Expiration – Estimating Vital Capacity by a Mathematical Method. Respiration, 2004, 71, 353-359.	2.6	2
177	SURROGATE-BASED HYPOTHESIS TEST WITHOUT SURROGATES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 2107-2114.	1.7	9
178	Comparison of three nonlinear seizure prediction methods by means of the seizure prediction characteristic. Physica D: Nonlinear Phenomena, 2004, 194, 357-368.	2.8	254
179	An Open Source Protein Gel Documentation System for Proteome Analyses. Journal of Chemical Information and Computer Sciences, 2004, 44, 168-169.	2.8	3
180	NONLINEAR DYNAMICAL SYSTEM IDENTIFICATION FROM UNCERTAIN AND INDIRECT MEASUREMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1905-1933.	1.7	251

#	ARTICLE	IF	CITATIONS
181	Real-time monitoring of ethene/1-hexene copolymerizations: determination of catalyst activity, copolymer composition and copolymerization parameters. Polymer, 2003, 44, 6179-6186.	3.8	17
182	Expression profiling on chronically rejected transplant kidneys ¹ . Transplantation, 2003, 76, 539-547.	1.0	49
183	Diagnosis of Sleep Apnea by Automatic Analysis of Nasal Pressure and Forced Oscillation Impedance. American Journal of Respiratory and Critical Care Medicine, 2002, 165, 940-944.	5.6	22
184	Effects of attention and precision of exerted force on beta range EEG-EMG synchronization during a maintained motor contraction task. Clinical Neurophysiology, 2002, 113, 124-131.	1.5	188
185	Method-Independent Effect in Testing for Detailed Balance in Ion Channel Gating. Biophysical Journal, 2002, 82, 2275-2276.	0.5	4
186	Quantitative analyses of anaerobic wastewater treatment processes: Identifiability and parameter estimation. Biotechnology and Bioengineering, 2002, 78, 89-103.	3.3	65
187	Corticomuscular coherence in the 6-15 Hz band: is the cortex involved in the generation of physiologic tremor?. Experimental Brain Research, 2002, 142, 32-40.	1.5	113
188	Dynamic annual daylight simulations based on one-hour and one-minute means of irradiance data. Solar Energy, 2002, 72, 385-395.	6.1	68
189	Quantitative analyses of anaerobic wastewater treatment processes: Identifiability and parameter estimation. Biotechnology and Bioengineering, 2002, 78, 89-103.	3.3	1
190	Model Selection in Non-nested Hidden Markov Models for Ion Channel Gating. Journal of Theoretical Biology, 2001, 208, 439-450.	1.7	5
191	Pathological tremors: Deterministic chaos or nonlinear stochastic oscillators?. AIP Conference Proceedings, 2000, , .	0.4	4
192	Estimating parameters in differential equations with application to laser data. AIP Conference Proceedings, 2000, , .	0.4	0
193	Linear and nonlinear time series analysis of the black hole candidate CygnusX-1. Physical Review E, 2000, 61, 1342-1352.	2.1	27
194	The Effects of Non-Identifiability on Testing for Detailed Balance in Aggregated Markov Models for Ion-Channel Gating. Biophysical Journal, 2000, 79, 2918-2924.	0.5	11
195	On identification of Na ⁺ channel gating schemes using moving-average filtered hidden Markov models. European Biophysics Journal, 1999, 28, 605-609.	2.2	22
196	Involvement of cranial muscles and high intermuscular coherence in orthostatic tremor. Annals of Neurology, 1999, 45, 384-388.	5.3	114
197	Detecting multimodality in saccadic reaction time distributions in gap and overlap tasks. Biological Cybernetics, 1998, 78, 293-305.	1.3	14
198	Modeling Volatility Using State Space Models. International Journal of Neural Systems, 1997, 08, 385-398.	5.2	9

#	ARTICLE	IF	CITATIONS
199	Saccadic reaction times: a statistical analysis of multimodal distributions. Vision Research, 1997, 37, 2119-2131.	1.4	93
200	Confidence Regions for Spectral Peak Frequencies. Biometrical Journal, 1997, 39, 849-861.	1.0	13
201	Effects of light and chronotherapy on human circadian rhythms in delayed sleep phase syndrome: Cytokines, cortisol, growth hormone, and the sleep-wake cycle. Biological Psychiatry, 1996, 40, 794-797.	1.3	33
202	Increased sensitivity of the inositol-phospholipid system in neutrophils from patients with acute major depressive episodes. Psychiatry Research, 1996, 65, 45-51.	3.3	22
203	Failure of dimension analysis in a simple five-dimensional system. Physical Review E, 1994, 50, 1770-1780.	2.1	18
204	Cytokine Production during Sleep and Wakefulness and Its Relationship to Cortisol in Healthy Humans. Neuropsychobiology, 1993, 28, 9-16.	1.9	53
205	Nonlinear Analysis of Time Series Data. , 0, , 5-37.		3
206	Computer Intensive Testing for the Influence Between Time Series. , 0, , 411-436.		20
207	Multivariate Signal Analysis by Parametric Models. , 0, , 373-409.		15
208	Granger Causality: Basic Theory and Application to Neuroscience. , 0, , 437-460.		357
209	Handbook of Time Series Analysis: Introduction and Overview. , 0, , 1-4.		3
210	Graphical Modeling of Dynamic Relationships in Multivariate Time Series. , 0, , 335-372.		24
211	Granger Causality on Spatial Manifolds: Applications to Neuroimaging. , 0, , 461-491.		12
212	Local and Cluster Weighted Modeling for Time Series Prediction. , 0, , 39-65.		5
213	Deterministic and Probabilistic Forecasting in Reconstructed State Spaces. , 0, , 67-88.		0
214	Dealing with Randomness in Biosignals. , 0, , 89-130.		3
215	Robust Detail-Preserving Signal Extraction. , 0, , 131-157.		6
216	Synchronization Analysis and Recurrence in Complex Systems. , 0, , 231-264.		4

#	ARTICLE	IF	CITATIONS
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218	Linear Models for Multivariate Time Series. , 0, , 283-308.		4
219	Spatio-Temporal Modeling for Biosurveillance Using a Spatially Constrained State Space Model. , 0, , 309-334.		2
220	Coupled Oscillators Approach in Analysis of Bivariate Data. , 0, , 159-180.		4
221	Nonlinear Dynamical Models from Chaotic Time Series: Methods and Applications. , 0, , 181-211.		1
222	Data-Driven Analysis of Nonstationary Brain Signals. , 0, , 213-230.		0
223	Impact of Computational Models for an Improved Understanding of Ictogenesis: From Single Neurons to Networks of Neurons. , 0, , 25-44.		1
224	A Multivariate Approach to Correlation Analysis Based on Random Matrix Theory. , 0, , 209-226.		7
225	The History of Seizure Prediction. , 0, , 11-24.		0
226	Bivariate and Multivariate Time Series Analysis Techniques and their Potential Impact for Seizure Prediction. , 0, , 189-208.		2
227	Testing a Prediction Algorithm: Assessment of Performance. , 0, , 249-259.		2
228	Time Series Analysis with Cellular Neural Networks. , 0, , 131-148.		1
229	Neuronal Synchronization and the "Ictio-Centric"™ vs the Network Theory for Ictogenesis: Mechanistic and Therapeutic Implications for Clinical Epileptology. , 0, , 109-115.		1
230	Effective and Anatomical Connectivity in a Rat Model of Spontaneous Limbic Seizure. , 0, , 45-59.		0
231	Epilepsy as a Disease of the Dynamics of Neuronal Networks" Models and Predictions. , 0, , 97-107.		1
232	Characterizing the Epileptic Process with Stochastic Qualifiers of Brain Dynamics. , 0, , 175-188.		0
233	Chronic Anterior Thalamic Deep-Brain Stimulation as a Treatment for Intractable Epilepsy. , 0, , 307-316.		2
234	Intrinsic Cortical Mechanisms which Oppose Epileptiform Activity: Implications for Seizure Prediction. , 0, , 149-161.		1

#	ARTICLE	IF	CITATIONS
235	Seizure Prediction in Epilepsy: Does a Combination of Methods Help?. , 0, , 227-236.		1
236	Vagus Nerve and Hippocampal Stimulation for Refractory Epilepsy. , 0, , 283-297.		1
237	Network Models of Epileptiform Activity: Explorations in Seizure Evolution and Alteration. , 0, , 61-81.		1
238	Responsive Neurostimulation for the Treatment of Epileptic Seizures. , 0, , 299-306.		1
239	Is Prediction of the Time of a Seizure Onset the Only Value of Seizure-Prediction Studies?. , 0, , 163-168.		0
240	High-Frequency Pre-Seizure Activity and Seizure Prediction. , 0, , 169-173.		0
241	Considerations on Database Requirements for Seizure Prediction. , 0, , 261-267.		1
242	Beyond Predictionâ€“ Focal Cooling and Optical Activation to Terminate Focal Seizures. , 0, , 269-282.		0
243	Thoughts about Seizure Prediction from the Perspective of a Clinical Neurophysiologist. , 0, , 317-323.		0
244	State of Seizure Prediction: A Report on Informal Discussions with Participants of the Third International Workshop on Seizure Prediction. , 0, , 325-330.		0
245	Recurrent Cortical Network Activity and Modulation of Synaptic Transmission. , 0, , 83-95.		0
246	Cellular Neural Networks and Seizure Prediction: An Overview. , 0, , 117-129.		1