

Mauricio Barahona

List of Publications by Year in descending order

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Version: 2024-02-01

161
papers

8,966
citations

94433

37
h-index

49909

87
g-index

199
all docs

199
docs citations

199
times ranked

11011
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Quantifying the Alignment of Graph and Features in Deep Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 1663-1672. | 11.3 | 10 |
| 2 | Complex interlinkages, key objectives, and nexuses among the Sustainable Development Goals and climate change: a network analysis. <i>Lancet Planetary Health</i> , The, 2022, 6, e422-e430. | 11.4 | 27 |
| 3 | Relative, local and global dimension in complex networks. <i>Nature Communications</i> , 2022, 13, . | 12.8 | 7 |
| 4 | Reflection on modern methods: constructing directed acyclic graphs (DAGs) with domain experts for health services research. <i>International Journal of Epidemiology</i> , 2022, 51, 1339-1348. | 1.9 | 8 |
| 5 | Allosteric Hotspots in the Main Protease of SARS-CoV-2. <i>Journal of Molecular Biology</i> , 2022, 434, 167748. | 4.2 | 10 |
| 6 | Prediction of Protein Allosteric Signalling Pathways and Functional Residues Through Paths of Optimised Propensity. <i>Journal of Molecular Biology</i> , 2022, 434, 167749. | 4.2 | 5 |
| 7 | Stationary Distributions of Continuous-Time Markov Chains: A Review of Theory and Truncation-Based Approximations. <i>SIAM Review</i> , 2021, 63, 3-64. | 9.5 | 15 |
| 8 | Approximations of Countably Infinite Linear Programs over Bounded Measure Spaces. <i>SIAM Journal on Optimization</i> , 2021, 31, 604-625. | 2.0 | 2 |
| 9 | Non-invasive suppression of essential tremor via phase-locked disruption of its temporal coherence. <i>Nature Communications</i> , 2021, 12, 363. | 12.8 | 50 |
| 10 | Graph-Based Topic Extraction from Vector Embeddings of Text Documents: Application to a Corpus of News Articles. <i>Studies in Computational Intelligence</i> , 2021, , 154-166. | 0.9 | 3 |
| 11 | Understanding learner behaviour in online courses with Bayesian modelling and time series characterisation. <i>Scientific Reports</i> , 2021, 11, 2823. | 3.3 | 8 |
| 12 | Learning compositional sequences with multiple time scales through a hierarchical network of spiking neurons. <i>PLoS Computational Biology</i> , 2021, 17, e1008866. | 3.2 | 7 |
| 13 | Systems level profiling of chemotherapy-induced stress resolution in cancer cells reveals druggable trade-offs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 18 |
| 14 | Geometric graphs from data to aid classification tasks with Graph Convolutional Networks. <i>Patterns</i> , 2021, 2, 100237. | 5.9 | 2 |
| 15 | HCGA: Highly comparative graph analysis for network phenotyping. <i>Patterns</i> , 2021, 2, 100227. | 5.9 | 9 |
| 16 | ProteinLens: a web-based application for the analysis of allosteric signalling on atomistic graphs of biomolecules. <i>Nucleic Acids Research</i> , 2021, 49, W551-W558. | 14.5 | 22 |
| 17 | Network memory in the movement of hospital patients carrying antimicrobial-resistant bacteria. <i>Applied Network Science</i> , 2021, 6, . | 1.5 | 9 |
| 18 | Kernel Two-Sample and Independence Tests for Nonstationary Random Processes. <i>Engineering Proceedings</i> , 2021, 5, 31. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Repurposed floxacins targeting RSK4 prevent chemoresistance and metastasis in lung and bladder cancer. <i>Science Translational Medicine</i> , 2021, 13, . | 12.4 | 19 |
| 20 | Informing antimicrobial management in the context of COVID-19: understanding the longitudinal dynamics of C-reactive protein and procalcitonin. <i>BMC Infectious Diseases</i> , 2021, 21, 932. | 2.9 | 15 |
| 21 | Listening to Mental Health Crisis Needs at Scale: Using Natural Language Processing to Understand and Evaluate a Mental Health Crisis Text Messaging Service. <i>Frontiers in Digital Health</i> , 2021, 3, 779091. | 2.8 | 5 |
| 22 | Patterns of healthcare utilisation in children and young people: a retrospective cohort study using routinely collected healthcare data in Northwest London. <i>BMJ Open</i> , 2021, 11, e050847. | 1.9 | 5 |
| 23 | HyperTraPS: Inferring Probabilistic Patterns of Trait Acquisition in Evolutionary and Disease Progression Pathways. <i>Cell Systems</i> , 2020, 10, 39-51.e10. | 6.2 | 14 |
| 24 | Identifying naturally occurring communities of primary care providers in the English National Health Service in London. <i>BMJ Open</i> , 2020, 10, e036504. | 1.9 | 1 |
| 25 | Computation of Single-Cell Metabolite Distributions Using Mixture Models. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 614832. | 3.7 | 13 |
| 26 | Graph-based data clustering via multiscale community detection. <i>Applied Network Science</i> , 2020, 5, . | 1.5 | 34 |
| 27 | Development and Delivery of a Real-time Hospital-onset COVID-19 Surveillance System Using Network Analysis. <i>Clinical Infectious Diseases</i> , 2020, 72, 82-89. | 5.8 | 14 |
| 28 | Learning spatiotemporal signals using a recurrent spiking network that discretizes time. <i>PLoS Computational Biology</i> , 2020, 16, e1007606. | 3.2 | 42 |
| 29 | Cellular memory enhances bacterial chemotactic navigation in rugged environments. <i>Communications Physics</i> , 2020, 3, . | 5.3 | 14 |
| 30 | Opportunities at the Interface of Network Science and Metabolic Modeling. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 591049. | 4.1 | 15 |
| 31 | Scale-dependent measure of network centrality from diffusion dynamics. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 13 |
| 32 | New geographic model of care to manage the post-COVID-19 elective surgery aftershock in England: a retrospective observational study. <i>BMJ Open</i> , 2020, 10, e042392. | 1.9 | 13 |
| 33 | Semi-supervised classification on graphs using explicit diffusion dynamics. , 2020, 2, 19-33. | | 11 |
| 34 | A primary care network analysis: natural communities of general practices in London. <i>British Journal of General Practice</i> , 2020, 70, bjgp20X711113. | 1.4 | 0 |
| 35 | Learning spatiotemporal signals using a recurrent spiking network that discretizes time. , 2020, 16, e1007606. | | 0 |
| 36 | Learning spatiotemporal signals using a recurrent spiking network that discretizes time. , 2020, 16, e1007606. | | 0 |

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|----|--|------|-----------|
| 37 | Learning spatiotemporal signals using a recurrent spiking network that discretizes time. , 2020, 16, e1007606. | | 0 |
| 38 | Learning spatiotemporal signals using a recurrent spiking network that discretizes time. , 2020, 16, e1007606. | | 0 |
| 39 | Learning spatiotemporal signals using a recurrent spiking network that discretizes time. , 2020, 16, e1007606. | | 0 |
| 40 | Learning spatiotemporal signals using a recurrent spiking network that discretizes time. , 2020, 16, e1007606. | | 0 |
| 41 | From free text to clusters of content in health records: an unsupervised graph partitioning approach. Applied Network Science, 2019, 4, 2. | 1.5 | 17 |
| 42 | Bounding the stationary distributions of the chemical master equation via mathematical programming. Journal of Chemical Physics, 2019, 151, 034109. | 3.0 | 18 |
| 43 | Data-driven unsupervised clustering of online learner behaviour. Npj Science of Learning, 2019, 4, 14. | 2.8 | 31 |
| 44 | Precision identification of high-risk phenotypes and progression pathways in severe malaria without requiring longitudinal data. Npj Digital Medicine, 2019, 2, 63. | 10.9 | 7 |
| 45 | Transitions of care across hospital settings in patients with inflammatory bowel disease. World Journal of Gastroenterology, 2019, 25, 2122-2132. | 3.3 | 7 |
| 46 | Multiscale dynamical embeddings of complex networks. Physical Review E, 2019, 99, 062308. | 2.1 | 32 |
| 47 | The Exit Time Finite State Projection Scheme: Bounding Exit Distributions and Occupation Measures of Continuous-Time Markov Chains. SIAM Journal of Scientific Computing, 2019, 41, A748-A769. | 2.8 | 13 |
| 48 | Stochastic modelling reveals mechanisms of metabolic heterogeneity. Communications Biology, 2019, 2, 108. | 4.4 | 44 |
| 49 | Collective Search With Finite Perception: Transient Dynamics and Search Efficiency. Frontiers in Physics, 2019, 6, . | 2.1 | 7 |
| 50 | Edge-based formulation of elastic network models. Physical Review Research, 2019, 1, . | 3.6 | 3 |
| 51 | Abstract 1775: Targeting RSK4 prevents both chemoresistance and metastasis in lung cancer. , 2019, , . | | 2 |
| 52 | Integrated Systems Level Examination of Proteasome Inhibitor Stress Recovery in Myeloma Cells Reveals Druggable Vulnerabilities Linked to Multiple Metabolic Processes. Blood, 2019, 134, 1818-1818. | 1.4 | 0 |
| 53 | Abstract 1775: Targeting RSK4 prevents both chemoresistance and metastasis in lung cancer. , 2019, , . | | 1 |
| 54 | Computational Re-design of Synthetic Genetic Oscillators for Independent Amplitude and Frequency Modulation. Cell Systems, 2018, 6, 508-520.e5. | 6.2 | 30 |

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|----|---|------|-----------|
| 55 | Geometric multiscale community detection: Markov stability and vector partitioning. Journal of Complex Networks, 2018, 6, 157-172. | 1.8 | 8 |
| 56 | Guiding interoperable electronic health records through patient-sharing networks. Npj Digital Medicine, 2018, 1, 65. | 10.9 | 13 |
| 57 | Allostery and cooperativity in multimeric proteins: bond-to-bond propensities in ATCase. Scientific Reports, 2018, 8, 11079. | 3.3 | 13 |
| 58 | Flux-dependent graphs for metabolic networks. Npj Systems Biology and Applications, 2018, 4, 32. | 3.0 | 29 |
| 59 | Stochastic models of gene transcription with upstream drives: exact solution and sample path characterization. Journal of the Royal Society Interface, 2017, 14, 20160833. | 3.4 | 71 |
| 60 | The "who" and "what" of #diabetes on Twitter. Digital Health, 2017, 3, 205520761668884. | 1.8 | 28 |
| 61 | SC3: consensus clustering of single-cell RNA-seq data. Nature Methods, 2017, 14, 483-486. | 19.0 | 1,203 |
| 62 | GlnK Facilitates the Dynamic Regulation of Bacterial Nitrogen Assimilation. Biophysical Journal, 2017, 112, 2219-2230. | 0.5 | 24 |
| 63 | Kinetic Analysis Reveals the Identity of $A\beta^2$ -Metal Complex Responsible for the Initial Aggregation of $A\beta^2$ in the Synapse. ACS Chemical Neuroscience, 2017, 8, 1970-1979. | 3.5 | 22 |
| 64 | Toward Precision Healthcare: Context and Mathematical Challenges. Frontiers in Physiology, 2017, 8, 136. | 2.8 | 28 |
| 65 | Window functions and sigmoidal behaviour of memristive systems. International Journal of Circuit Theory and Applications, 2016, 44, 1685-1696. | 2.0 | 19 |
| 66 | Graph partitions and cluster synchronization in networks of oscillators. Chaos, 2016, 26, 094821. | 2.5 | 110 |
| 67 | Bounding Stationary Averages of Polynomial Diffusions via Semidefinite Programming. SIAM Journal of Scientific Computing, 2016, 38, A3891-A3920. | 2.8 | 20 |
| 68 | Community detection and role identification in directed networks: Understanding the Twitter network of the care.data debate. Security Science and Technology, 2016, , 111-136. | 0.5 | 14 |
| 69 | Prediction of allosteric sites and mediating interactions through bond-to-bond propensities. Nature Communications, 2016, 7, 12477. | 12.8 | 78 |
| 70 | Linear models of activation cascades: analytical solutions and coarse-graining of delayed signal transduction. Journal of the Royal Society Interface, 2016, 13, 20160409. | 3.4 | 17 |
| 71 | Flow-Based Network Analysis of the Caenorhabditis elegans Connectome. PLoS Computational Biology, 2016, 12, e1005055. | 3.2 | 35 |
| 72 | Great cities look small. Journal of the Royal Society Interface, 2015, 12, 20150315. | 3.4 | 20 |

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|----|--|------|-----------|
| 73 | Secondary Metal Binding to Amyloid-Beta Monomer is Insignificant under Synaptic Conditions. <i>Biophysical Journal</i> , 2015, 108, 385a. | 0.5 | 0 |
| 74 | Emergence of Slow-Switching Assemblies in Structured Neuronal Networks. <i>PLoS Computational Biology</i> , 2015, 11, e1004196. | 3.2 | 45 |
| 75 | PDGFR α demarcates the cardiogenic clonogenic Sca1+ stem/progenitor cell in adult murine myocardium. <i>Nature Communications</i> , 2015, 6, 6930. | 12.8 | 130 |
| 76 | Amplification of small molecule-inducible gene expression via tuning of intracellular receptor densities. <i>Nucleic Acids Research</i> , 2015, 43, 1955-1964. | 14.5 | 98 |
| 77 | Dynamics of Cluster Synchronisation in Modular Networks: Implications for Structural and Functional Networks. <i>Understanding Complex Systems</i> , 2015, , 107-130. | 0.6 | 2 |
| 78 | Introduction of a Fluorescent Probe to Amyloid β to Reveal Kinetic Insights into Its Interactions with Copper(II). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1227-1230. | 13.8 | 47 |
| 79 | Random Walks, Markov Processes and the Multiscale Modular Organization of Complex Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2014, 1, 76-90. | 6.4 | 259 |
| 80 | <i>Hhex</i> and <i>Cer1</i> Mediate the Sox17 Pathway for Cardiac Mesoderm Formation in Embryonic Stem Cells. <i>Stem Cells</i> , 2014, 32, 1515-1526. | 3.2 | 24 |
| 81 | Interest communities and flow roles in directed networks: the Twitter network of the UK riots. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140940. | 3.4 | 52 |
| 82 | Structure of complex networks: Quantifying edge-to-edge relations by failure-induced flow redistribution. <i>Network Science</i> , 2014, 2, 66-89. | 1.0 | 41 |
| 83 | Kinetics of the Interconversion Between Two Physiologically Important Copper-Bound Amyloid-Beta Species. <i>Biophysical Journal</i> , 2014, 106, 682a. | 0.5 | 0 |
| 84 | Uncovering allosteric pathways in caspase-1 using Markov transient analysis and multiscale community detection. <i>Molecular BioSystems</i> , 2014, 10, 2247-2258. | 2.9 | 30 |
| 85 | On memristor ideality and reciprocity. <i>Microelectronics Journal</i> , 2014, 45, 1363-1371. | 2.0 | 19 |
| 86 | Revealing cell assemblies at multiple levels of granularity. <i>Journal of Neuroscience Methods</i> , 2014, 236, 92-106. | 2.5 | 30 |
| 87 | Engineering modular and tunable genetic amplifiers for scaling transcriptional signals in cascaded gene networks. <i>Nucleic Acids Research</i> , 2014, 42, 9484-9492. | 14.5 | 109 |
| 88 | Kinetics of Metal Amyloid-Beta Binding and Efficacy of Ligands Targeting Metal Amyloid-Beta Interactions. <i>Biophysical Journal</i> , 2014, 106, 39a. | 0.5 | 0 |
| 89 | P595PDGFR α demarcates the cardiogenic and clonogenic Sca-1+ stem cell. <i>Cardiovascular Research</i> , 2014, 103, S107.4-S107. | 3.8 | 0 |
| 90 | Ideal memristors as reciprocal elements. , 2013, , . | | 2 |

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|-----|--|------|-----------|
| 91 | Tuning the dials of Synthetic Biology. <i>Microbiology (United Kingdom)</i> , 2013, 159, 1236-1253. | 1.8 | 87 |
| 92 | Decentralised minimum-time consensus. <i>Automatica</i> , 2013, 49, 1227-1235. | 5.0 | 104 |
| 93 | A modular cell-based biosensor using engineered genetic logic circuits to detect and integrate multiple environmental signals. <i>Biosensors and Bioelectronics</i> , 2013, 40, 368-376. | 10.1 | 191 |
| 94 | The Stability of a Graph Partition: A Dynamics-Based Framework for Community Detection. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2013, , 221-242. | 0.6 | 34 |
| 95 | Nitrogen and Carbon Status Are Integrated at the Transcriptional Level by the Nitrogen Regulator NtrC <i>In Vivo</i> . <i>MBio</i> , 2013, 4, e00881-13. | 4.1 | 66 |
| 96 | Rewiring cell signalling through chimaeric regulatory protein engineering. <i>Biochemical Society Transactions</i> , 2013, 41, 1195-1200. | 3.4 | 21 |
| 97 | Risk factor-dependent dynamics of atopic dermatitis: modelling multi-scale regulation of epithelium homeostasis. <i>Interface Focus</i> , 2013, 3, 20120090. | 3.0 | 13 |
| 98 | Observability and coarse graining of consensus dynamics through the external equitable partition. <i>Physical Review E</i> , 2013, 88, 042805. | 2.1 | 49 |
| 99 | On periodic reference tracking using batch-mode reinforcement learning with application to gene regulatory network control. , 2013, , . | | 8 |
| 100 | Finding role communities in directed networks using Role-Based Similarity, Markov Stability and the Relaxed Minimum Spanning Tree. , 2013, , . | | 18 |
| 101 | Squeeze-and-breathe evolutionary Monte Carlo optimization with local search acceleration and its application to parameter fitting. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1925-1933. | 3.4 | 9 |
| 102 | Stochastic oscillatory dynamics of generalized repressilators. , 2012, , . | | 2 |
| 103 | Robustness of random graphs based on graph spectra. <i>Chaos</i> , 2012, 22, 043101. | 2.5 | 32 |
| 104 | Encoding dynamics for multiscale community detection: Markov time sweeping for the map equation. <i>Physical Review E</i> , 2012, 86, 026112. | 2.1 | 58 |
| 105 | Engineering and ethical perspectives in synthetic biology. <i>EMBO Reports</i> , 2012, 13, 584-590. | 4.5 | 49 |
| 106 | Device Properties of Bernoulli Memristors. <i>Proceedings of the IEEE</i> , 2012, 100, 1938-1950. | 21.3 | 17 |
| 107 | Sensory experience modifies spontaneous state dynamics in a large-scale barrel cortical model. <i>Journal of Computational Neuroscience</i> , 2012, 33, 323-339. | 1.0 | 13 |
| 108 | Combinatorial stresses kill pathogenic <i>Candida</i> species. <i>Medical Mycology</i> , 2012, 50, 699-709. | 0.7 | 79 |

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| 109 | Quantitative measure of hysteresis for memristors through explicit dynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2210-2229. | 2.1 | 24 |
| 110 | Compound stress response in stomatal closure: a mathematical model of ABA and ethylene interaction in guard cells. BMC Systems Biology, 2012, 6, 146. | 3.0 | 36 |
| 111 | Markov Dynamics as a Zooming Lens for Multiscale Community Detection: Non Clique-Like Communities and the Field-of-View Limit. PLoS ONE, 2012, 7, e32210. | 2.5 | 116 |
| 112 | Flow graphs: Interweaving dynamics and structure. Physical Review E, 2011, 84, 017102. | 2.1 | 64 |
| 113 | Transient dynamics around unstable periodic orbits in the generalized repressilator model. Chaos, 2011, 21, 023104. | 2.5 | 25 |
| 114 | Decentralised minimal-time consensus. , 2011, , . | | 9 |
| 115 | Spectral Measure of Structural Robustness in Complex Networks. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 1244-1252. | 2.9 | 191 |
| 116 | Obtaining certificates for complete synchronisation of coupled oscillators. Physica D: Nonlinear Phenomena, 2011, 240, 795-803. | 2.8 | 6 |
| 117 | Protein multi-scale organization through graph partitioning and robustness analysis: application to the myosin-myosin light chain interaction. Physical Biology, 2011, 8, 055010. | 1.8 | 50 |
| 118 | Robustness of regular ring lattices based on natural connectivity. International Journal of Systems Science, 2011, 42, 1085-1092. | 5.5 | 21 |
| 119 | Solutions of weakly reversible chemical reaction networks are bounded and persistent*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 42-47. | 0.4 | 1 |
| 120 | How is a sensory stimulus represented in ongoing dynamics in the barrel cortex?. BMC Neuroscience, 2010, 11, . | 1.9 | 0 |
| 121 | Natural Connectivity of Complex Networks. Chinese Physics Letters, 2010, 27, 078902. | 3.3 | 108 |
| 122 | Switchable genetic oscillator operating in quasi-stable mode. Journal of the Royal Society Interface, 2010, 7, 1071-1082. | 3.4 | 65 |
| 123 | Stability of graph communities across time scales. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12755-12760. | 7.1 | 358 |
| 124 | Memristors and Bernoulli dynamics. , 2010, , . | | 20 |
| 125 | Crowding-Induced Anisotropic Transport Modulates Reaction Kinetics in Nanoscale Porous Media. Journal of Physical Chemistry B, 2010, 114, 5380-5385. | 2.6 | 18 |
| 126 | The Effect of Spatially Inhomogeneous Extracellular Electric Fields on Neurons. Journal of Neuroscience, 2010, 30, 1925-1936. | 3.6 | 169 |

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|-----|---|------|-----------|
| 127 | An analysis of the Map Seeking Circuit and Monte Carlo extensions. , 2009, , . | | 2 |
| 128 | Interplay between spontaneous and sensory activities in barrel cortex: a computational study. BMC Neuroscience, 2009, 10, . | 1.9 | 0 |
| 129 | Probabilistic risk analysis of groundwater remediation strategies. Water Resources Research, 2009, 45, . | 4.2 | 72 |
| 130 | Synchronization of oscillators in complex networks. Pramana - Journal of Physics, 2008, 70, 1175-1198. | 1.8 | 11 |
| 131 | X-ray diffraction measurement of the monolayer spontaneous curvature of dioleoylphosphatidylglycerol. Chemistry and Physics of Lipids, 2008, 154, 64-67. | 3.2 | 57 |
| 132 | Transcriptome-wide noise controls lineage choice in mammalian progenitor cells. Nature, 2008, 453, 544-547. | 27.8 | 1,007 |
| 133 | A Dominated Coupling From The Past algorithm for the stochastic simulation of networks of biochemical reactions. BMC Systems Biology, 2008, 2, 42. | 3.0 | 5 |
| 134 | Biophysical Regulation of Lipid Biosynthesis in the Plasma Membrane. Biophysical Journal, 2008, 94, 2938-2954. | 0.5 | 23 |
| 135 | Chemistry across scales: from molecules to cells. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2921-2934. | 3.4 | 11 |
| 136 | Full analogue electronic realisation of the Hodgkin-Huxley neuronal dynamics in weak-inversion CMOS. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1200-3. | 0.5 | 5 |
| 137 | Perfect Sampling of the Master Equation for Gene Regulatory Networks. Biophysical Journal, 2007, 93, 401-410. | 0.5 | 21 |
| 138 | Noise characteristics of interlocked repressilators. BMC Systems Biology, 2007, 1, . | 3.0 | 0 |
| 139 | A Dynamical Model of Lipoprotein Metabolism. Bulletin of Mathematical Biology, 2007, 69, 1233-1254. | 1.9 | 21 |
| 140 | Stochastic Kinetics of Viral Capsid Assembly Based on Detailed Protein Structures. Biophysical Journal, 2006, 90, 3029-3042. | 0.5 | 45 |
| 141 | A new bound of the $\ \cdot \ _{[0, T]}$ -induced norm and applications to model reduction. , 2002, , . | | 5 |
| 142 | Self-Assembled, Deterministic Carbon Nanotube Wiring Networks This work was funded by the Office of Naval Research, DARPA, and an NSF-FRG grant.. Angewandte Chemie - International Edition, 2002, 41, 353. | 13.8 | 159 |
| 143 | Synchronization in Small-World Systems. Physical Review Letters, 2002, 89, 054101. | 7.8 | 1,322 |
| 144 | Titration of chaos with added noise. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7107-7112. | 7.1 | 138 |

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| 145 | Dynamics of one-dimensional Josephson-junction arrays. <i>Physica D: Nonlinear Phenomena</i> , 1998, 119, 219-226. | 2.8 | 20 |
| 146 | Superconducting states and depinning transitions of Josephson ladders. <i>Physical Review B</i> , 1998, 57, 1181-1199. | 3.2 | 15 |
| 147 | Pinned states in Josephson arrays: A general stability theorem. <i>Physical Review B</i> , 1998, 58, 5215-5218. | 3.2 | 2 |
| 148 | Row-switched states in two-dimensional underdamped Josephson-junction arrays. <i>Physical Review B</i> , 1998, 57, 10893-10912. | 3.2 | 7 |
| 149 | Resonances of dynamical checkerboard states in Josephson arrays with self-inductance. <i>Physical Review B</i> , 1997, 55, R11989-R11992. | 3.2 | 18 |
| 150 | Intrinsic phase-locked state in two-dimensional Nb Josephson arrays. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 3103-3106. | 1.7 | 5 |
| 151 | Detection of nonlinear dynamics in short, noisy time series. <i>Nature</i> , 1996, 381, 215-217. | 27.8 | 259 |
| 152 | Ba ₂ (RE)Cu ₃ O _{7-δ} (RE=La, Pr, Nd, Sm, Gd): Crystal growth, structure and magnetic properties. <i>Solid State Ionics</i> , 1989, 32-33, 1154-1159. | 2.7 | 3 |
| 153 | Superconducting energy gap and phonon spectra in MBa ₂ Cu ₃ O _{7-δ} type materials. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 153-155, 663-664. | 1.2 | 2 |
| 154 | REBa ₂ Cu ₃ O _{7-δ} (RE = Pr, Nd, Sm, Gd): Crystal growth, structure and magnetism. <i>Solid State Ionics</i> , 1988, 26, 167. | 2.7 | 0 |
| 155 | Infrared and Raman spectra of the new superconducting cuprate perovskites MBa ₂ Cu ₃ O ₇ , M =Nd, Dy, Er, Tm. <i>Solid State Communications</i> , 1988, 65, 71-75. | 1.9 | 95 |
| 156 | Ba ₂ PrCu ₃ O ₇ : Crystal growth, structure and magnetic properties. <i>Solid State Communications</i> , 1988, 67, 369-372. | 1.9 | 29 |
| 157 | Ba ₂ Pr _{0.34} Pr _{0.73} Cu _{0.73} Cu _{2.32} O ₇ : Crystal growth, structure and magnetic properties. <i>Physica C: Superconductivity and Its Applications</i> , 1988, 153-155, 423-424. | 1.2 | 5 |
| 158 | The rare-earth H.T.S.C. family Ba ₂ (RE)Cu ₃ O ₇ ; structural, electrical and magnetic studies (RE=Y,Nd,Sm,Eu,Gd,Dy,Ho,Er,Tm). <i>Materials Research Bulletin</i> , 1988, 23, 313-321. | 5.2 | 27 |
| 159 | Superconducting energy gap in MBa ₂ Cu ₃ O _{7-δ} -type materials. <i>Physical Review B</i> , 1988, 37, 652-655. | 3.2 | 43 |
| 160 | Finite horizon model reduction and the appearance of dissipation in Hamiltonian systems. , 0, , . | | 8 |
| 161 | A biomimetic CMOS synapse. , 0, , . | | 3 |