## Luciano Da F Costa

# 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.

231 5,288 37 64 g-index

247 6,311 3.8 5.84 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
231	Maternal high-fat diet in mice induces cerebrovascular, microglial and long-term behavioural alterations in offspring <i>Communications Biology</i> , <b>2022</b> , 5, 26	6.7	O
230	On hypercomplex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2022</b> , 591, 126714	3.3	
229	Methods for Gene Co-expression Network Visualization and Analysis <b>2022</b> , 143-163		O
228	Coincidence complex networks. <i>Journal of Physics Complexity</i> , <b>2022</b> , 3, 015012	1.8	O
227	Gland context networks: A novel approach for improving prostate cancer identification. <i>Computerized Medical Imaging and Graphics</i> , <b>2021</b> , 94, 101999	7.6	
226	Contrarian effects and echo chamber formation in opinion dynamics. <i>Journal of Physics Complexity</i> , <b>2021</b> , 2, 025010	1.8	
225	How coupled are capillary electrophoresis and mass spectrometry?. Scientometrics, 2021, 126, 3841-385	5 <b>1</b> 3	1
224	Power laws in the Roman Empire: a survival analysis. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 210850	3.3	1
223	Enriching and analyzing small citation networks: A case study on transistor history. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2021</b> , 573, 125901	3.3	O
222	Comparison of Different Spike Train Synchrony Measures Regarding Their Robustness to Erroneous Data From Bicuculline-Induced Epileptiform Activity. <i>Neural Computation</i> , <b>2020</b> , 32, 887-911	2.9	O
221	Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 1090-1101	25.5	25
220	A biochemical network modeling of a whole-cell. Scientific Reports, 2020, 10, 13303	4.9	4
219	Characterization and comparison of large directed networks through the spectra of the magnetic Laplacian. <i>Chaos</i> , <b>2020</b> , 30, 073141	3.3	3
218	Syntonets: toward a harmony-inspired general model of complex networks. <i>European Physical Journal B</i> , <b>2020</b> , 93, 1	1.2	
217	Spacing ratio characterization of the spectra of directed random networks. <i>Physical Review E</i> , <b>2020</b> , 102, 062305	2.4	4
216	Complex systems: Features, similarity and connectivity. <i>Physics Reports</i> , <b>2020</b> , 861, 1-41	27.7	21
215	Problem-solving using complex networks. <i>European Physical Journal B</i> , <b>2019</b> , 92, 1	1.2	O

Morphological Neuron Classification Based on Dendritic Tree Hierarchy. Neuroinformatics, 2019, 17, 147-3, €1 214 Analysis and Synthesis of Morphologically Realistic Neural Networks 2019, 505-528 213 Clustering algorithms: A comparative approach. PLoS ONE, 2019, 14, e0210236 212 149 3.7 Connecting network science and information theory. Physica A: Statistical Mechanics and Its 6 211 3.3 Applications, 2019, 515, 641-648 Representation of texts as complex networks: a mesoscopic approach. Journal of Complex Networks 210 1.7 14 , 2018, 6, 125-144 Characterizing BJTs using the Early voltage in the forward active mode. International Journal of 209 2 Circuit Theory and Applications, 2018, 46, 978-986 A pattern recognition approach to transistor array parameter variance. Physica A: Statistical 208 3.3 Mechanics and Its Applications, 2018, 499, 176-185 Gene regulatory and signaling networks exhibit distinct topological distributions of motifs. Physical 207 2.4 Review E, 2018, 97, 042417 Negative feedback, linearity and parameter invariance in linear electronics. Electrical Engineering, 206 1.5 1 2018, 100, 1159-1181 An image analysis approach to text analytics based on complex networks. Physica A: Statistical 205 3.3 Mechanics and Its Applications, 2018, 510, 110-120 Hyperfiltration in ubiquitin C-terminal hydrolase L1-deleted mice. Clinical Science, 2018, 132, 1453-1470 6.5 204 The dynamics of knowledge acquisition via self-learning in complex networks. Chaos, 2018, 28, 083106 3.3 6 203 Topology and dynamics in complex networks: The role of edge reciprocity. Europhysics Letters, 2018 1.6 202 2 , 122, 26001 How integrated are theoretical and applied physics?. Scientometrics, 2018, 116, 1113-1121 201 4 Rumor propagation with heterogeneous transmission in social networks. Journal of Statistical 18 200 1.9 Mechanics: Theory and Experiment, 2017, 2017, 023401 Analysis of Scanning Electron Microscopy Images To Investigate Adsorption Processes Responsible 199 9.5 11 for Detection of Cancer Biomarkers. ACS Applied Materials & Detection of Cancer Biomarkers. ACS Applied Materials & Detection of Cancer Biomarkers. Patterns of authors contribution in scientific manuscripts. Journal of Informetrics, 2017, 11, 498-510 198 3.1 39 Biological network border detection. Integrative Biology (United Kingdom), 2017, 9, 947-955 197 3.7

196	Knowledge acquisition: A Complex networks approach. <i>Information Sciences</i> , <b>2017</b> , 421, 154-166	7.7	38
195	Effects of threshold on the topology of gene co-expression networks. <i>Molecular BioSystems</i> , <b>2017</b> , 13, 2024-2035		9
194	The aPKC-CBP Pathway Regulates Post-stroke Neurovascular Remodeling and Functional Recovery. <i>Stem Cell Reports</i> , <b>2017</b> , 9, 1735-1744	8	20
193	Mechanosensing is critical for axon growth in the developing brain. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 1597	2- <u>1</u> 5.98	297
192	Texture recognition based on diffusion in networks. <i>Information Sciences</i> , <b>2016</b> , 364-365, 51-71	7.7	14
191	Using complex networks for text classification: Discriminating informative and imaginative documents. <i>Europhysics Letters</i> , <b>2016</b> , 113, 28007	1.6	42
190	Concentric network symmetry. <i>Information Sciences</i> , <b>2016</b> , 333, 61-80	7.7	6
189	A complex network approach to cloud computing. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2016</b> , 2016, 023402	1.9	1
188	Minimal paths between communities induced by geographical networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2016</b> , 2016, 023403	1.9	5
187	Modular transcriptional repertoire and MicroRNA target analyses characterize genomic dysregulation in the thymus of Down syndrome infants. <i>Oncotarget</i> , <b>2016</b> , 7, 7497-533	3.3	15
186	Temporal modulation of collective cell behavior controls vascular network topology. ELife, 2016, 5,	8.9	14
185	A diffusion-based approach to obtaining the borders of urban areas. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2016</b> , 2016, 053205	1.9	2
184	Seeking maximum linearity of transfer functions. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 124701	1.7	2
183	Topic segmentation via community detection in complex networks. <i>Chaos</i> , <b>2016</b> , 26, 063120	3.3	10
182	Using network science and text analytics to produce surveys in a scientific topic. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 487-502	3.1	69
181	Automated high-content morphological analysis of muscle fiber histology. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 63, 28-35	7	11
180	Topological-collaborative approach for disambiguating authors[hames in collaborative networks. <i>Scientometrics</i> , <b>2015</b> , 102, 465-485	3	20
179	A framework for analyzing the relationship between gene expression and morphological, topological, and dynamical patterns in neuronal networks. <i>Journal of Neuroscience Methods</i> , <b>2015</b> , 245, 1-14	3	3

### (2013-2015)

178	Concentric network symmetry grasps authors' styles in word adjacency networks. <i>Europhysics Letters</i> , <b>2015</b> , 110, 68001	1.6	32
177	A framework for evaluating complex networks measurements. <i>Europhysics Letters</i> , <b>2015</b> , 110, 68002	1.6	2
176	Keystone species in seed dispersal networks are mainly determined by dietary specialization. <i>Oikos</i> , <b>2015</b> , 124, 1031-1039	4	79
175	A quantitative approach to painting styles. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2015</b> , 417, 110-129	3.3	3
174	Thermodynamic characterization of networks using graph polynomials. <i>Physical Review E</i> , <b>2015</b> , 92, 032	8 <u>2</u> 1.Q	24
173	Community structure analysis of transcriptional networks reveals distinct molecular pathways for early- and late-onset temporal lobe epilepsy with childhood febrile seizures. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128	13774	11
172	Statistical physics approach to quantifying differences in myelinated nerve fibers. <i>Scientific Reports</i> , <b>2014</b> , 4, 4511	4.9	8
171	An image processing approach to analyze morphological features of microscopic images of muscle fibers. <i>Computerized Medical Imaging and Graphics</i> , <b>2014</b> , 38, 803-14	7.6	4
170	Sensory-related neural activity regulates the structure of vascular networks in the cerebral cortex. <i>Neuron</i> , <b>2014</b> , 83, 1117-30	13.9	83
169	Approximate von Neumann entropy for directed graphs. <i>Physical Review E</i> , <b>2014</b> , 89, 052804	2.4	38
168	A systematic comparison of supervised classifiers. <i>PLoS ONE</i> , <b>2014</b> , 9, e94137	3.7	119
167	Random walks in directed modular networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2014</b> , 2014, P12003	1.9	3
166	Role of centrality for the identification of influential spreaders in complex networks. <i>Physical Review E</i> , <b>2014</b> , 90, 032812	2.4	91
165	Entropy of weighted recurrence plots. <i>Physical Review E</i> , <b>2014</b> , 90, 042919	2.4	36
164	Structure and dynamics of functional networks in child-onset schizophrenia. <i>Clinical Neurophysiology</i> , <b>2014</b> , 125, 1589-95	4.3	9
163	Methods for Gene Coexpression Network Visualization and Analysis <b>2014</b> , 79-94		
162	Shape, connectedness and dynamics in neuronal networks. <i>Journal of Neuroscience Methods</i> , <b>2013</b> , 220, 100-15	3	5
161	A methodology to infer gene networks from spatial patterns of expressionan application to fluorescence in situ hybridization images. <i>Molecular BioSystems</i> , <b>2013</b> , 9, 1926-30		

160	On time-varying collaboration networks. <i>Journal of Informetrics</i> , <b>2013</b> , 7, 371-378	3.1	37
159	The relationship between structure and function in locally observed complex networks. <i>New Journal of Physics</i> , <b>2013</b> , 15, 013048	2.9	5
158	Accessibility in networks: A useful measure for understanding social insect nest architecture. <i>Chaos, Solitons and Fractals,</i> <b>2013</b> , 46, 38-45	9.3	7
157	Quantifying the interdisciplinarity of scientific journals and fields. <i>Journal of Informetrics</i> , <b>2013</b> , 7, 469-4	47371	35
156	Supervised Classification of Basaltic Aggregate Particles Based on Texture Properties. <i>Journal of Computing in Civil Engineering</i> , <b>2013</b> , 27, 177-182	5	
155	Urban Street Networks, a Comparative Analysis of Ten European Cities. <i>Environment and Planning B: Planning and Design</i> , <b>2013</b> , 40, 1071-1086		61
154	Complex network analysis of CA3 transcriptome reveals pathogenic and compensatory pathways in refractory temporal lobe epilepsy. <i>PLoS ONE</i> , <b>2013</b> , 8, e79913	3.7	20
153	Probing the statistical properties of unknown texts: application to the Voynich Manuscript. <i>PLoS ONE</i> , <b>2013</b> , 8, e67310	3.7	38
152	Study of cerebral gene expression densities using Voronoi analysis. <i>Journal of Neuroscience Methods</i> , <b>2012</b> , 203, 212-9	3	2
151	Extractive summarization using complex networks and syntactic dependency. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 1855-1864	3.3	39
150	Mitochondrial network size scaling in budding yeast. <i>Science</i> , <b>2012</b> , 338, 822-4	33.3	114
150 149	Mitochondrial network size scaling in budding yeast. <i>Science</i> , <b>2012</b> , 338, 822-4  Extensive cross-talk and global regulators identified from an analysis of the integrated transcriptional and signaling network in Escherichia coli. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 3028-35	33.3	114
	Extensive cross-talk and global regulators identified from an analysis of the integrated	33.3	ŕ
149	Extensive cross-talk and global regulators identified from an analysis of the integrated transcriptional and signaling network in Escherichia coli. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 3028-35		8
149	Extensive cross-talk and global regulators identified from an analysis of the integrated transcriptional and signaling network in Escherichia coli. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 3028-35  The structure and resilience of financial market networks. <i>Chaos</i> , <b>2012</b> , 22, 013117  Predicting epidemic outbreak from individual features of the spreaders. <i>Journal of Statistical</i>	3.3	8 46
149 148	Extensive cross-talk and global regulators identified from an analysis of the integrated transcriptional and signaling network in Escherichia coli. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 3028-35  The structure and resilience of financial market networks. <i>Chaos</i> , <b>2012</b> , 22, 013117  Predicting epidemic outbreak from individual features of the spreaders. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2012</b> , 2012, P07005  StructureBemantics interplay in complex networks and its effects on the predictability of similarity	3.3	8 46 17
149 148 147	Extensive cross-talk and global regulators identified from an analysis of the integrated transcriptional and signaling network in Escherichia coli. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 3028-35  The structure and resilience of financial market networks. <i>Chaos</i> , <b>2012</b> , 22, 013117  Predicting epidemic outbreak from individual features of the spreaders. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2012</b> , 2012, P07005  StructureBemantics interplay in complex networks and its effects on the predictability of similarity in texts. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 4406-4419  A complex networks approach for data clustering. <i>Physica A: Statistical Mechanics and Its</i>	3·3 1·9 3·3	8 46 17 40

142	Identification of literary movements using complex networks to represent texts. <i>New Journal of Physics</i> , <b>2012</b> , 14, 043029	2.9	33
141	Unveiling the relationship between complex networks metrics and word senses. <i>Europhysics Letters</i> , <b>2012</b> , 98, 18002	1.6	30
140	Evaluating links through spectral decomposition. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2012</b> , 2012, P01015	1.9	
139	Effective number of accessed nodes in complex networks. <i>Physical Review E</i> , <b>2012</b> , 85, 036105	2.4	20
138	STRUCTURE AND DYNAMICS: THE TRANSITION FROM NONEQUILIBRIUM TO EQUILIBRIUM IN INTEGRATE-AND-FIRE DYNAMICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2012</b> , 22, 1250174	2	2
137	Complex networks analysis of language complexity. <i>Europhysics Letters</i> , <b>2012</b> , 100, 58002	1.6	29
136	On the use of topological features and hierarchical characterization for disambiguating names in collaborative networks. <i>Europhysics Letters</i> , <b>2012</b> , 99, 48002	1.6	28
135	A quantitative approach to evolution of music and philosophy. <i>Journal of Statistical Mechanics:</i> Theory and Experiment, <b>2012</b> , 2012, P08010	1.9	4
134	A decaying factor accounts for contained activity in neuronal networks with no need of hierarchical or modular organization. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2012</b> , 2012, P11018	1.9	1
133	Opinion Discrimination Using Complex Network Features. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 154-162	0.3	2
132	Epithelial organisation revealed by a network of cellular contacts. <i>Nature Communications</i> , <b>2011</b> , 2, 526	17.4	33
131	Communication structure of cortical networks. Frontiers in Computational Neuroscience, 2011, 5, 6	3.5	11
130	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. <i>Advances in Physics</i> , <b>2011</b> , 60, 329-412	18.4	422
129	Multiple pathways analysis of brain functional networks from EEG signals: an application to real data. <i>Brain Topography</i> , <b>2011</b> , 23, 344-54	4.3	23
128	An entropy-based approach to automatic image segmentation of satellite images. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 512-518	3.3	41
127	Fast long-range connections in transportation networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 1626-1629	2.3	10
126	Gene expression complex networks: synthesis, identification, and analysis. <i>Journal of Computational Biology</i> , <b>2011</b> , 18, 1353-67	1.7	31
125	Resilience of protein-protein interaction networks as determined by their large-scale topological features. <i>Molecular BioSystems</i> , <b>2011</b> , 7, 1263-9		9

124	Identifying the starting point of a spreading process in complex networks. <i>Physical Review E</i> , <b>2011</b> , 84, 056105	2.4	113
123	On the efficiency of data representation on the modeling and characterization of complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 2172-2180	3.3	1
122	Entropy-Based Approach to Analyze and Classify Mineral Aggregates. <i>Journal of Computing in Civil Engineering</i> , <b>2011</b> , 25, 75-84	5	5
121	Gene expression noise in spatial patterning: hunchback promoter structure affects noise amplitude and distribution in Drosophila segmentation. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1001069	5	52
120	Comparing intermittency and network measurements of words and their dependence on authorship. <i>New Journal of Physics</i> , <b>2011</b> , 13, 123024	2.9	35
119	Automatic network fingerprinting through single-node motifs. <i>PLoS ONE</i> , <b>2011</b> , 6, e15765	3.7	13
118	Structure-Dynamics Interplay in Directed Complex Networks with Border Effects. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 46-56	0.3	2
117	Unveiling the neuromorphological space. Frontiers in Computational Neuroscience, 2010, 4, 150	3.5	29
116	Complexity and anisotropy in host morphology make populations less susceptible to epidemic outbreaks. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 1083-92	4.1	14
115	Generalized connectivity between any two nodes in a complex network. <i>Physical Review E</i> , <b>2010</b> , 81, 030	51.143	6
114	THE EFFECT OF CORTICO-THALAMIC CONNECTIONS ON THE DIVERSITY OF CORTICAL ACTIVATIONS AS MODELED BY THE ISING MODEL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2010</b> , 20, 1321-1334	2	Ο
113	Musical genres: beating to the rhythms of different drums. New Journal of Physics, 2010, 12, 053030	2.9	11
112	Identifying the borders of mathematical knowledge. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2010</b> , 43, 325202	2	9
111	Mechanosensitivity of astrocytes on optimized polyacrylamide gels analyzed by quantitative morphometry. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 194114	1.8	86
110	Estimating complex cortical networks via surface recordings- a critical note. NeuroImage, 2010, 53, 439-	<b>49</b> .9	31
109	Multiscale Curvature Analysis of Asphaltic Aggregate Particles. <i>Journal of Computing in Civil Engineering</i> , <b>2010</b> , 24, 506-513	5	1
108	Comparison of the interactomic networks of different species in terms of accessibility. <i>Molecular BioSystems</i> , <b>2010</b> , 6, 234-40		2
107	Characterizing topological and dynamical properties of complex networks without border effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2010</b> , 389, 1771-1778	3.3	5

### (2008-2009)

106	Signal propagation in cortical networks: a digital signal processing approach. <i>Frontiers in Neuroinformatics</i> , <b>2009</b> , 3, 24	3.9	5	
105	Regulation of radial glial motility by visual experience. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 14066-76	6.6	30	
104	Border detection in complex networks. <i>New Journal of Physics</i> , <b>2009</b> , 11, 063019	2.9	22	
103	Studies of aberrant phyllotaxy1 mutants of maize indicate complex interactions between auxin and cytokinin signaling in the shoot apical meristem. <i>Plant Physiology</i> , <b>2009</b> , 150, 205-16	6.6	92	
102	Connectivity and dynamics of neuronal networks as defined by the shape of individual neurons. <i>New Journal of Physics</i> , <b>2009</b> , 11, 103053	2.9	5	
101	Characterization of subgraph relationships and distribution in complex networks. <i>New Journal of Physics</i> , <b>2009</b> , 11, 013058	2.9	8	
100	The web of connections between tourism companies: Structure and dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2009</b> , 388, 4286-4296	3.3	31	
99	Modeling worldwide highway networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 374, 22-27	2.3	13	
98	A structure-dynamic approach to cortical organization: number of paths and accessibility. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 183, 57-62	3	7	
97	A complex network approach to text summarization. <i>Information Sciences</i> , <b>2009</b> , 179, 584-599	7.7	71	
96	Modularity and robustness of bone networks. <i>Molecular BioSystems</i> , <b>2009</b> , 5, 255-61		18	
95	Protein lethality investigated in terms of long range dynamical interactions. <i>Molecular BioSystems</i> , <b>2009</b> , 5, 385-90		11	
94	Performance Improvement of Tomographic Image Reconstruction Based on DSP Processors. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 3295-3304	5.2	7	
93	Modeling Highway Networks with Path-Geographical Transformations. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 115-126	0.8	2	
92	Detecting and Characterizing the Modular Structure of the Yeast Transcription Network. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 35-46	0.8		
91	Three-dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. <i>Journal of Anatomy</i> , <b>2008</b> , 212, 636-44	2.9	9	
90	Hierarchical spatial organization of geographical networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2008</b> , 41, 224004	2	4	
89	Jararhagin, a snake venom metalloprotease-disintegrin, activates the Rac1 GTPase and stimulates neurite outgrowth in neuroblastoma cells. <i>Toxicon</i> , <b>2008</b> , 52, 380-4	2.8	3	

88	2D Euclidean distance transform algorithms. ACM Computing Surveys, 2008, 40, 1-44	13.4	274
87	ON THE EFFECTS OF GEOGRAPHICAL CONSTRAINTS ON TASK EXECUTION IN COMPLEX NETWORKS. <i>International Journal of Modern Physics C</i> , <b>2008</b> , 19, 847-853	1.1	3
86	Border trees of complex networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224005	2	9
85	Chain motifs: the tails and handles of complex networks. <i>Physical Review E</i> , <b>2008</b> , 77, 026106	2.4	13
84	COMPLEX NETWORKS ANALYSIS OF MANUAL AND MACHINE TRANSLATIONS. <i>International Journal of Modern Physics C</i> , <b>2008</b> , 19, 583-598	1.1	37
83	Complex networks: the key to systems biology. <i>Genetics and Molecular Biology</i> , <b>2008</b> , 31, 591-601	2	53
82	Objective characterization of the course of the parasellar internal carotid artery using mathematical tools. <i>Surgical and Radiologic Anatomy</i> , <b>2008</b> , 30, 519-26	1.4	14
81	Concentric characterization and classification of complex network nodes: Application to an institutional collaboration network. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2008</b> , 387, 6201	-6214	16
80	AGN Simulation and Validation Model. Lecture Notes in Computer Science, 2008, 169-173	0.9	7
79	Texture Discrimination Using Hierarchical Complex Networks <b>2008</b> , 95-102		4
78	Biological shape characterization for automatic image recognition and diagnosis of protozoan parasites of the genus Eimeria. <i>Pattern Recognition</i> , <b>2007</b> , 40, 1899-1910	7.7	44
77	A new method for quantifying three-dimensional interactions between biological structures. <i>Journal of Anatomy</i> , <b>2007</b> , 210, 221-31	2.9	7
76	Predicting the connectivity of primate cortical networks from topological and spatial node		58
	properties. BMC Systems Biology, <b>2007</b> , 1, 16	3.5	
75	Properties. BMC Systems Biology, 2007, 1, 16  Voronoi analysis uncovers relationship between mosaics of normally placed and displaced amacrine	3.5	10
	Properties. BMC Systems Biology, 2007, 1, 16  Voronoi analysis uncovers relationship between mosaics of normally placed and displaced amacrine		10
75	Properties. BMC Systems Biology, 2007, 1, 16  Voronoi analysis uncovers relationship between mosaics of normally placed and displaced amacrine cells in the thraira retina. Neuroinformatics, 2007, 5, 59-78  DIVERSITY OF CORTICAL STATES AT NONEQUILIBRIUM SIMULATED BY THE ANTI-FERROMAGNETIC ISING MODEL UNDER METROPOLIS DYNAMICS. International Journal of	3.2	
75 74	Properties. BMC Systems Biology, 2007, 1, 16  Voronoi analysis uncovers relationship between mosaics of normally placed and displaced amacrine cells in the thraira retina. Neuroinformatics, 2007, 5, 59-78  DIVERSITY OF CORTICAL STATES AT NONEQUILIBRIUM SIMULATED BY THE ANTI-FERROMAGNETIC ISING MODEL UNDER METROPOLIS DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2387-2398	3.2	4

### (2005-2007)

70	Correlations between structure and random walk dynamics in directed complex networks. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 054107	3.4	29
69	Exploring complex networks through random walks. <i>Physical Review E</i> , <b>2007</b> , 75, 016102	2.4	51
68	Correlating thalamocortical connectivity and activity. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 013903	3.4	11
67	Pattern formation in a gene network model with boundary shape dependence. <i>Physical Review E</i> , <b>2006</b> , 73, 031917	2.4	8
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