

Albert-Lszl Barabsi

List of Publications by Citations

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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.

187
papers

102,619
citations

99
h-index

198
g-index

198
ext. papers

120,362
ext. citations

16.4
avg, IF

8.81
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 187 | Emergence of scaling in random networks. <i>Science</i> , 1999 , 286, 509-12 | 33.3 | 22075 |
| 186 | Statistical mechanics of complex networks. <i>Reviews of Modern Physics</i> , 2002 , 74, 47-97 | 40.5 | 13246 |
| 185 | Error and attack tolerance of complex networks. <i>Nature</i> , 2000 , 406, 378-82 | 50.4 | 5753 |
| 184 | Network biology: understanding the cell's functional organization. <i>Nature Reviews Genetics</i> , 2004 , 5, 101-13 | 30.1 | 5439 |
| 183 | Understanding individual human mobility patterns. <i>Nature</i> , 2008 , 453, 779-82 | 50.4 | 3903 |
| 182 | Network medicine: a network-based approach to human disease. <i>Nature Reviews Genetics</i> , 2011 , 12, 56-68 | 30.1 | 2899 |
| 181 | Diameter of the World-Wide Web. <i>Nature</i> , 1999 , 401, 130-131 | 50.4 | 2869 |
| 180 | The human disease network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8685-90 | 11.5 | 2380 |
| 179 | Limits of predictability in human mobility. <i>Science</i> , 2010 , 327, 1018-21 | 33.3 | 2015 |
| 178 | Controllability of complex networks. <i>Nature</i> , 2011 , 473, 167-73 | 50.4 | 2001 |
| 177 | Social science. Computational social science. <i>Science</i> , 2009 , 323, 721-3 | 33.3 | 1961 |
| 176 | The origin of bursts and heavy tails in human dynamics. <i>Nature</i> , 2005 , 435, 207-11 | 50.4 | 1527 |
| 175 | Mean-field theory for scale-free random networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 272, 173-187 | 3.3 | 1501 |
| 174 | Drug-target network. <i>Nature Biotechnology</i> , 2007 , 25, 1119-26 | 44.5 | 1328 |
| 173 | Hierarchical organization in complex networks. <i>Physical Review E</i> , 2003 , 67, 026112 | 2.4 | 1273 |
| 172 | Scale-free networks: a decade and beyond. <i>Science</i> , 2009 , 325, 412-3 | 33.3 | 1243 |
| 171 | Interactome networks and human disease. <i>Cell</i> , 2011 , 144, 986-98 | 56.2 | 1187 |

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| 170 | Quantifying social group evolution. <i>Nature</i> , 2007 , 446, 664-7 | 50.4 | 1117 |
| 169 | High-quality binary protein interaction map of the yeast interactome network. <i>Science</i> , 2008 , 322, 104-103,3 | 33.3 | 1100 |
| 168 | A proteome-scale map of the human interactome network. <i>Cell</i> , 2014 , 159, 1212-1226 | 56.2 | 898 |
| 167 | Topology of evolving networks: local events and universality. <i>Physical Review Letters</i> , 2000 , 85, 5234-7 | 7.4 | 842 |
| 166 | Scale-free characteristics of random networks: the topology of the world-wide web. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 281, 69-77 | 3.3 | 819 |
| 165 | Disease networks. Uncovering disease-disease relationships through the incomplete interactome. <i>Science</i> , 2015 , 347, 1257601 | 33.3 | 767 |
| 164 | A universal model for mobility and migration patterns. <i>Nature</i> , 2012 , 484, 96-100 | 50.4 | 760 |
| 163 | Modelling the scaling properties of human mobility. <i>Nature Physics</i> , 2010 , 6, 818-823 | 16.2 | 729 |
| 162 | Evidence for network evolution in an Arabidopsis interactome map. <i>Science</i> , 2011 , 333, 601-7 | 33.3 | 689 |
| 161 | An empirical framework for binary interactome mapping. <i>Nature Methods</i> , 2009 , 6, 83-90 | 21.6 | 674 |
| 160 | A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. <i>Cell</i> , 2006 , 125, 801-14 | 56.2 | 637 |
| 159 | Universal resilience patterns in complex networks. <i>Nature</i> , 2016 , 530, 307-12 | 50.4 | 520 |
| 158 | Functional and topological characterization of protein interaction networks. <i>Proteomics</i> , 2004 , 4, 928-424.8 | 4.8 | 468 |
| 157 | Bose-Einstein condensation in complex networks. <i>Physical Review Letters</i> , 2001 , 86, 5632-5 | 7.4 | 445 |
| 156 | Modeling the Internet's large-scale topology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 13382-6 | 11.5 | 440 |
| 155 | Quantifying long-term scientific impact. <i>Science</i> , 2013 , 342, 127-32 | 33.3 | 439 |
| 154 | Dynamic scaling of ion-sputtered surfaces. <i>Physical Review Letters</i> , 1995 , 74, 4746-4749 | 7.4 | 432 |
| 153 | Modeling bursts and heavy tails in human dynamics. <i>Physical Review E</i> , 2006 , 73, 036127 | 2.4 | 412 |

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| 152 | Morphology of ion-sputtered surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 197, 185-227 | 1.2 | 412 |
| 151 | A dynamic network approach for the study of human phenotypes. <i>PLoS Computational Biology</i> , 2009 , 5, e1000353 | 5 | 400 |
| 150 | Human disease classification in the postgenomic era: a complex systems approach to human pathobiology. <i>Molecular Systems Biology</i> , 2007 , 3, 124 | 12.2 | 397 |
| 149 | Network medicine--from obesity to the "diseasome". <i>New England Journal of Medicine</i> , 2007 , 357, 404-7 | 59.2 | 391 |
| 148 | Science of science. <i>Science</i> , 2018 , 359, | 33.3 | 373 |
| 147 | Uncovering individual and collective human dynamics from mobile phone records. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224015 | 2 | 373 |
| 146 | Systems biology. Life's complexity pyramid. <i>Science</i> , 2002 , 298, 763-4 | 33.3 | 370 |
| 145 | Halting viruses in scale-free networks. <i>Physical Review E</i> , 2002 , 65, 055103 | 2.4 | 366 |
| 144 | Human mobility, social ties, and link prediction 2011 , | | 363 |
| 143 | Understanding the spreading patterns of mobile phone viruses. <i>Science</i> , 2009 , 324, 1071-6 | 33.3 | 353 |
| 142 | Widespread macromolecular interaction perturbations in human genetic disorders. <i>Cell</i> , 2015 , 161, 647-660 | 33.3 | 343 |
| 141 | Human symptoms-disease network. <i>Nature Communications</i> , 2014 , 5, 4212 | 17.4 | 340 |
| 140 | Deterministic scale-free networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 559-564 | 3.3 | 308 |
| 139 | Observability of complex systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2460-5 | 11.5 | 307 |
| 138 | Spectra of "real-world" graphs: beyond the semicircle law. <i>Physical Review E</i> , 2001 , 64, 026704 | 2.4 | 305 |
| 137 | Dislocation-Free Island Formation in Heteroepitaxial Growth: A Study at Equilibrium. <i>Physical Review Letters</i> , 1997 , 79, 3708-3711 | 7.4 | 303 |
| 136 | Interpreting cancer genomes using systematic host network perturbations by tumour virus proteins. <i>Nature</i> , 2012 , 487, 491-5 | 50.4 | 294 |
| 135 | Control principles of complex systems. <i>Reviews of Modern Physics</i> , 2016 , 88, | 40.5 | 292 |

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| 134 | Multifractality of self-affine fractals. <i>Physical Review A</i> , 1991 , 44, 2730-2733 | 2.6 | 282 |
| 133 | Quantifying the evolution of individual scientific impact. <i>Science</i> , 2016 , 354, | 33.3 | 258 |
| 132 | Human dynamics: Darwin and Einstein correspondence patterns. <i>Nature</i> , 2005 , 437, 1251 | 50.4 | 258 |
| 131 | Analysis of a large-scale weighted network of one-to-one human communication. <i>New Journal of Physics</i> , 2007 , 9, 179-179 | 2.9 | 249 |
| 130 | Two degrees of separation in complex food webs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12913-6 | 11.5 | 244 |
| 129 | Impact of non-Poissonian activity patterns on spreading processes. <i>Physical Review Letters</i> , 2007 , 98, 158702 | 7.4 | 242 |
| 128 | Network-based in silico drug efficacy screening. <i>Nature Communications</i> , 2016 , 7, 10331 | 17.4 | 240 |
| 127 | Self-assembled island formation in heteroepitaxial growth. <i>Applied Physics Letters</i> , 1997 , 70, 2565-2567 | 3.4 | 237 |
| 126 | Avalanches and power-law behaviour in lung inflation. <i>Nature</i> , 1994 , 368, 615-8 | 50.4 | 237 |
| 125 | Target control of complex networks. <i>Nature Communications</i> , 2014 , 5, 5415 | 17.4 | 232 |
| 124 | The exposome and health: Where chemistry meets biology. <i>Science</i> , 2020 , 367, 392-396 | 33.3 | 231 |
| 123 | Flavor network and the principles of food pairing. <i>Scientific Reports</i> , 2011 , 1, 196 | 4.9 | 231 |
| 122 | Network-based prediction of drug combinations. <i>Nature Communications</i> , 2019 , 10, 1197 | 17.4 | 216 |
| 121 | Ion-induced effective surface diffusion in ion sputtering. <i>Applied Physics Letters</i> , 1997 , 71, 2800-2802 | 3.4 | 211 |
| 120 | Network-based approach to prediction and population-based validation of in silico drug repurposing. <i>Nature Communications</i> , 2018 , 9, 2691 | 17.4 | 208 |
| 119 | MicroRNA-21 integrates pathogenic signaling to control pulmonary hypertension: results of a network bioinformatics approach. <i>Circulation</i> , 2012 , 125, 1520-32 | 16.7 | 207 |
| 118 | Universal features of correlated bursty behaviour. <i>Scientific Reports</i> , 2012 , 2, 397 | 4.9 | 205 |
| 117 | Returners and explorers dichotomy in human mobility. <i>Nature Communications</i> , 2015 , 6, 8166 | 17.4 | 200 |

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| 116 | Geographic constraints on social network groups. <i>PLoS ONE</i> , 2011 , 6, e16939 | 3.7 | 199 |
| 115 | Collective response of human populations to large-scale emergencies. <i>PLoS ONE</i> , 2011 , 6, e17680 | 3.7 | 193 |
| 114 | Control centrality and hierarchical structure in complex networks. <i>PLoS ONE</i> , 2012 , 7, e44459 | 3.7 | 192 |
| 113 | A DIseAse MOdule Detection (DIAMOND) algorithm derived from a systematic analysis of connectivity patterns of disease proteins in the human interactome. <i>PLoS Computational Biology</i> , 2015 , 11, e1004120 | 5 | 189 |
| 112 | Network science. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120375 | 3 | 185 |
| 111 | Universality in network dynamics. <i>Nature Physics</i> , 2013 , 9, | 16.2 | 183 |
| 110 | Network link prediction by global silencing of indirect correlations. <i>Nature Biotechnology</i> , 2013 , 31, 720-5 | 14.5 | 178 |
| 109 | Dynamics of complex systems: scaling laws for the period of boolean networks. <i>Physical Review Letters</i> , 2000 , 84, 5660-3 | 7.4 | 176 |
| 108 | The impact of cellular networks on disease comorbidity. <i>Molecular Systems Biology</i> , 2009 , 5, 262 | 12.2 | 175 |
| 107 | Spectrum of controlling and observing complex networks. <i>Nature Physics</i> , 2015 , 11, 779-786 | 16.2 | 173 |
| 106 | Historical comparison of gender inequality in scientific careers across countries and disciplines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4609-4616 | 11.5 | 165 |
| 105 | Network-based prediction of protein interactions. <i>Nature Communications</i> , 2019 , 10, 1240 | 17.4 | 156 |
| 104 | Emergence of bimodality in controlling complex networks. <i>Nature Communications</i> , 2013 , 4, 2002 | 17.4 | 156 |
| 103 | Controllability analysis of the directed human protein interaction network identifies disease genes and drug targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4976-81 | 11.5 | 155 |
| 102 | Aggregation of topological motifs in the Escherichia coli transcriptional regulatory network. <i>BMC Bioinformatics</i> , 2004 , 5, 10 | 3.6 | 151 |
| 101 | Effect of correlations on network controllability. <i>Scientific Reports</i> , 2013 , 3, 1067 | 4.9 | 131 |
| 100 | Modules, networks and systems medicine for understanding disease and aiding diagnosis. <i>Genome Medicine</i> , 2014 , 6, 82 | 14.4 | 126 |
| 99 | PARP9 and PARP14 cross-regulate macrophage activation via STAT1 ADP-ribosylation. <i>Nature Communications</i> , 2016 , 7, 12849 | 17.4 | 120 |

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| 98 | Ranking stability and super-stable nodes in complex networks. <i>Nature Communications</i> , 2011 , 2, 394 | 17.4 | 118 |
| 97 | Collective credit allocation in science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12325-30 | 11.5 | 113 |
| 96 | A disease module in the interactome explains disease heterogeneity, drug response and captures novel pathways and genes in asthma. <i>Human Molecular Genetics</i> , 2015 , 24, 3005-20 | 5.6 | 108 |
| 95 | Predicting synthetic rescues in metabolic networks. <i>Molecular Systems Biology</i> , 2008 , 4, 168 | 12.2 | 107 |
| 94 | The Architecture of Complexity. <i>IEEE Control Systems</i> , 2007 , 27, 33-42 | 2.9 | 102 |
| 93 | Sociology. Network theory--the emergence of the creative enterprise. <i>Science</i> , 2005 , 308, 639-41 | 33.3 | 102 |
| 92 | Quantitative social science. A network framework of cultural history. <i>Science</i> , 2014 , 345, 558-62 | 33.3 | 101 |
| 91 | The unmapped chemical complexity of our diet. <i>Nature Food</i> , 2020 , 1, 33-37 | 14.4 | 99 |
| 90 | Control capacity and a random sampling method in exploring controllability of complex networks. <i>Scientific Reports</i> , 2013 , 3, 2354 | 4.9 | 93 |
| 89 | Career on the move: geography, stratification, and scientific impact. <i>Scientific Reports</i> , 2014 , 4, 4770 | 4.9 | 92 |
| 88 | A century of physics. <i>Nature Physics</i> , 2015 , 11, 791-796 | 16.2 | 91 |
| 87 | Viral perturbations of host networks reflect disease etiology. <i>PLoS Computational Biology</i> , 2012 , 8, e1002531 | 3.5 | 90 |
| 86 | Time to CARE: a collaborative engine for practical disease prediction. <i>Data Mining and Knowledge Discovery</i> , 2010 , 20, 388-415 | 5.6 | 90 |
| 85 | Bioinformatics analysis of experimentally determined protein complexes in the yeast <i>Saccharomyces cerevisiae</i> . <i>Genome Research</i> , 2003 , 13, 2450-4 | 9.7 | 89 |
| 84 | Predicting perturbation patterns from the topology of biological networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6375-E6383 | 11.5 | 88 |
| 83 | Impact of the solvent capacity constraint on <i>E. coli</i> metabolism. <i>BMC Systems Biology</i> , 2008 , 2, 7 | 3.5 | 87 |
| 82 | Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2017 , 113, 725-736 | 9.9 | 85 |
| 81 | Distribution of node characteristics in complex networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17916-20 | 11.5 | 85 |

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| 80 | Transcription factor modularity in a gene-centered <i>C. elegans</i> core neuronal protein-DNA interaction network. <i>Genome Research</i> , 2007 , 17, 1061-71 | 9.7 | 80 |
| 79 | Network medicine framework for identifying drug-repurposing opportunities for COVID-19. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 77 |
| 78 | Sex differences in intimate relationships. <i>Scientific Reports</i> , 2012 , 2, 370 | 4.9 | 67 |
| 77 | Equilibrium phase diagrams for dislocation free self-assembled quantum dots. <i>Applied Physics Letters</i> , 1998 , 72, 2102-2104 | 3.4 | 63 |
| 76 | Tissue Specificity of Human Disease Module. <i>Scientific Reports</i> , 2016 , 6, 35241 | 4.9 | 62 |
| 75 | Multifractality of growing surfaces. <i>Physical Review A</i> , 1992 , 45, R6951-R6954 | 2.6 | 60 |
| 74 | Scaling identity connects human mobility and social interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7047-52 | 11.5 | 58 |
| 73 | Information spreading in context 2011 , | | 56 |
| 72 | Endophenotype Network Models: Common Core of Complex Diseases. <i>Scientific Reports</i> , 2016 , 6, 27414 | 4.9 | 55 |
| 71 | Predicting individual disease risk based on medical history 2008 , | | 55 |
| 70 | The physics of the Web. <i>Physics World</i> , 2001 , 14, 33-38 | 0.5 | 51 |
| 69 | Constructing minimal models for complex system dynamics. <i>Nature Communications</i> , 2015 , 6, 7186 | 17.4 | 50 |
| 68 | The universal decay of collective memory and attention. <i>Nature Human Behaviour</i> , 2019 , 3, 82-91 | 12.8 | 49 |
| 67 | Avalanches in the lung: A statistical mechanical model. <i>Physical Review Letters</i> , 1996 , 76, 2192-2195 | 7.4 | 46 |
| 66 | Controlling nanostructures. <i>Nature</i> , 1994 , 368, 22-22 | 50.4 | 44 |
| 65 | The chaperone effect in scientific publishing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12603-12607 | 11.5 | 44 |
| 64 | Stable evolutionary signal in a yeast protein interaction network. <i>BMC Evolutionary Biology</i> , 2006 , 6, 8 | 3 | 43 |
| 63 | From data to models. <i>Nature Physics</i> , 2007 , 3, 224-225 | 16.2 | 41 |

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| 62 | Comparison of an expanded ataxia interactome with patient medical records reveals a relationship between macular degeneration and ataxia. <i>Human Molecular Genetics</i> , 2011 , 20, 510-27 | 5.6 | 40 |
| 61 | Spatial ordering of islands grown on patterned surfaces. <i>Applied Physics Letters</i> , 1998 , 73, 2651-2653 | 3.4 | 40 |
| 60 | Dynamics of ranking processes in complex systems. <i>Physical Review Letters</i> , 2012 , 109, 128701 | 7.4 | 38 |
| 59 | Controllability of multiplex, multi-time-scale networks. <i>Physical Review E</i> , 2016 , 94, 032316 | 2.4 | 37 |
| 58 | Fundamental limitations of network reconstruction from temporal data. <i>Journal of the Royal Society Interface</i> , 2017 , 14, | 4.1 | 36 |
| 57 | Quantifying information flow during emergencies. <i>Scientific Reports</i> , 2014 , 4, 3997 | 4.9 | 36 |
| 56 | Integrating personalized gene expression profiles into predictive disease-associated gene pools. <i>Npj Systems Biology and Applications</i> , 2017 , 3, 10 | 5 | 34 |
| 55 | Uncovering the role of elementary processes in network evolution. <i>Scientific Reports</i> , 2013 , 3, 2920 | 4.9 | 32 |
| 54 | Social Group Dynamics in Networks. <i>Understanding Complex Systems</i> , 2009 , 11-38 | 0.4 | 32 |
| 53 | An inter-species protein-protein interaction network across vast evolutionary distance. <i>Molecular Systems Biology</i> , 2016 , 12, 865 | 12.2 | 31 |
| 52 | Network science: Destruction perfected. <i>Nature</i> , 2015 , 524, 38-9 | 50.4 | 29 |
| 51 | Effect of surface morphology on the sputtering yields. II. Ion sputtering from rippled surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 222, 335-354 | 1.2 | 26 |
| 50 | Network-based analysis of genome wide association data provides novel candidate genes for lipid and lipoprotein traits. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 3398-408 | 7.6 | 24 |
| 49 | Identifying and modeling the structural discontinuities of human interactions. <i>Scientific Reports</i> , 2017 , 7, 46677 | 4.9 | 22 |
| 48 | A structural transition in physical networks. <i>Nature</i> , 2018 , 563, 676-680 | 50.4 | 22 |
| 47 | Publishing: Handful of papers dominates citation. <i>Nature</i> , 2012 , 491, 40 | 50.4 | 21 |
| 46 | Inhomogeneous evolution of subgraphs and cycles in complex networks. <i>Physical Review E</i> , 2005 , 71, 025103 | 2.4 | 21 |
| 45 | Secondary ion yield changes on rippled interfaces. <i>Applied Physics Letters</i> , 1998 , 72, 906-908 | 3.4 | 21 |

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| 44 | Systems Medicine: from molecular features and models to the clinic in COPD. <i>Journal of Translational Medicine</i> , 2014 , 12 Suppl 2, S4 | 8.5 | 20 |
| 43 | A Genetic Model of the Connectome. <i>Neuron</i> , 2020 , 105, 435-445.e5 | 13.9 | 20 |
| 42 | A divisive Shuffling Approach (VISTA) for gene expression analysis to identify subtypes in Chronic Obstructive Pulmonary Disease. <i>BMC Systems Biology</i> , 2014 , 8 Suppl 2, S8 | 3.5 | 19 |
| 41 | A wealth of discovery built on the Human Genome Project - by the numbers. <i>Nature</i> , 2021 , 590, 212-215 | 50.4 | 19 |
| 40 | Trade-offs between driving nodes and time-to-control in complex networks. <i>Scientific Reports</i> , 2017 , 7, 39978 | 4.9 | 18 |
| 39 | Success in books: a big data approach to bestsellers. <i>EPJ Data Science</i> , 2018 , 7, | 3.4 | 18 |
| 38 | The Architecture of Biological Networks 2006 , 165-181 | | 18 |
| 37 | Thermodynamic and kinetic mechanisms in self-assembled quantum dot formation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999 , 67, 23-30 | 3.1 | 18 |
| 36 | WIPER: The Integrated Wireless Phone Based Emergency Response System. <i>Lecture Notes in Computer Science</i> , 2006 , 417-424 | 0.9 | 16 |
| 35 | From comorbidities of chronic obstructive pulmonary disease to identification of shared molecular mechanisms by data integration. <i>BMC Bioinformatics</i> , 2016 , 17, 441 | 3.6 | 16 |
| 34 | and the network control framework-FAQs. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373, | 5.8 | 16 |
| 33 | Network medicine framework shows that proximity of polyphenol targets and disease proteins predicts therapeutic effects of polyphenols. <i>Nature Food</i> , 2021 , 2, 143-155 | 14.4 | 14 |
| 32 | Controllability in an islet specific regulatory network identifies the transcriptional factor NFATC4, which regulates Type 2 Diabetes associated genes. <i>Npj Systems Biology and Applications</i> , 2018 , 4, 25 | 5 | 14 |
| 31 | Discovering the genes mediating the interactions between chronic respiratory diseases in the human interactome. <i>Nature Communications</i> , 2020 , 11, 811 | 17.4 | 13 |
| 30 | Understanding the spread of malicious mobile-phone programs and their damage potential. <i>International Journal of Information Security</i> , 2013 , 12, 383-392 | 2.8 | 12 |
| 29 | Liu et al. reply. <i>Nature</i> , 2011 , 478, E4-E5 | 50.4 | 12 |
| 28 | A genetic epidemiology approach to cyber-security. <i>Scientific Reports</i> , 2014 , 4, 5659 | 4.9 | 11 |
| 27 | Roughening of growing surfaces: Kinetic models and continuum theories. <i>Computational Materials Science</i> , 1996 , 6, 127-134 | 3.2 | 11 |

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| 26 | COMMUNITY DYNAMICS IN SOCIAL NETWORKS. <i>Fluctuation and Noise Letters</i> , 2007 , 07, L273-L287 | 1.2 | 8 |
| 25 | Uncovering the genetic blueprint of the nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 33570-33577 | 11.5 | 7 |
| 24 | Emergence of scaling in complex networks 2004 , 69-84 | | 7 |
| 23 | Network-based prediction of protein interactions | | 7 |
| 22 | Power Laws in Biological Networks 2006 , 1-11 | | 6 |
| 21 | A global network for network medicine. <i>Npj Systems Biology and Applications</i> , 2020 , 6, 29 | 5 | 6 |
| 20 | Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. <i>Progress in Preventive Medicine (New York, N Y)</i> , 2017 , 2, e006 | 0.7 | 5 |
| 19 | Community dynamics in social networks 2007 , | | 5 |
| 18 | Characteristics of Biological Networks. <i>Lecture Notes in Physics</i> , 2004 , 443-457 | 0.8 | 4 |
| 17 | Isotopy and energy of physical networks. <i>Nature Physics</i> , 2021 , 17, 216-222 | 16.2 | 4 |
| 16 | Network Medicine Framework for Identifying Drug Repurposing Opportunities for COVID-19 2020 , | | 4 |
| 15 | Quantifying NFT-driven networks in crypto art.. <i>Scientific Reports</i> , 2022 , 12, 2769 | 4.9 | 4 |
| 14 | Graph Theory Properties of Cellular Networks 2013 , 177-193 | | 3 |
| 13 | Science communication. Response to Comment on "Quantifying long-term scientific impact". <i>Science</i> , 2014 , 345, 149 | 33.3 | 3 |
| 12 | Predicting perturbation patterns from the topology of biological networks | | 3 |
| 11 | Dynamics of ranking.. <i>Nature Communications</i> , 2022 , 13, 1646 | 17.4 | 3 |
| 10 | Computational Models of Mobility: A Perspective from Mobile Phone Data 2014 , 110-124 | | 2 |
| 9 | SCALE-FREE NETWORKS IN BIOLOGY. <i>Complex Systems and Interdisciplinary Science</i> , 2007 , 1-19 | | 2 |

- 8 SURFACTANT-MEDIATED SURFACE GROWTH: NONEQUILIBRIUM THEORY. *Fractals*, **1993**, 01, 846-859 3.2 2
- 7 Uncovering the genetic blueprint of the *C. elegans* nervous system 2
- 6 Reverse engineering of linking preferences from network restructuring. *Physical Review E*, **2004**, 70, 046115 2.4 1
- 5 Controllability in an islet specific regulatory network identifies the transcriptional factor NFATC4, which regulates Type 2 Diabetes associated genes 1
- 4 Recovery coupling in multilayer networks.. *Nature Communications*, **2022**, 13, 955 17.4 1
- 3 THE ARCHITECTURE OF COMPLEXITY: FROM WWW TO CELLULAR METABOLISM **2006**, 107-125 0
- 2 Metabolic Networks **2005**, 243-264
- 1 SURFACTANT-MEDIATED SURFACE GROWTH: NONEQUILIBRIUM THEORY **1994**, 472-485