Albert-László Barabási

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11300397/publications.pdf

Version: 2024-02-01

187 papers 131,951 citations

106 h-index 178 g-index

198 all docs

198 docs citations

198 times ranked 80438 citing authors

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Quantifying NFT-driven networks in crypto art. Scientific Reports, 2022, 12, 2769. | 1.6 | 54 |
| 2 | Recovery coupling in multilayer networks. Nature Communications, 2022, 13, 955. | 5.8 | 30 |
| 3 | Dynamics of ranking. Nature Communications, 2022, 13, 1646. | 5.8 | 29 |
| 4 | Network-medicine framework for studying disease trajectories in U.S. veterans. Scientific Reports, 2022, 12, . | 1.6 | 5 |
| 5 | Isotopy and energy of physical networks. Nature Physics, 2021, 17, 216-222. | 6.5 | 13 |
| 6 | A wealth of discovery built on the Human Genome Project â€" by the numbers. Nature, 2021, 590, 212-215. | 13.7 | 60 |
| 7 | Network medicine framework shows that proximity of polyphenol targets and disease proteins predicts therapeutic effects of polyphenols. Nature Food, 2021, 2, 143-155. | 6.2 | 57 |
| 8 | Network medicine framework for identifying drug-repurposing opportunities for COVID-19. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 245 |
| 9 | The unmapped chemical complexity of our diet. Nature Food, 2020, 1, 33-37. | 6.2 | 177 |
| 10 | A Genetic Model of the Connectome. Neuron, 2020, 105, 435-445.e5. | 3.8 | 35 |
| 11 | A global network for network medicine. Npj Systems Biology and Applications, 2020, 6, 29. | 1.4 | 19 |
| 12 | Uncovering the genetic blueprint of the <i>C. elegans</i> nervous system. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33570-33577. | 3.3 | 23 |
| 13 | Historical comparison of gender inequality in scientific careers across countries and disciplines. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4609-4616. | 3.3 | 474 |
| 14 | The exposome and health: Where chemistry meets biology. Science, 2020, 367, 392-396. | 6.0 | 499 |
| 15 | Discovering the genes mediating the interactions between chronic respiratory diseases in the human interactome. Nature Communications, 2020, 11 , 811 . | 5.8 | 25 |
| 16 | Network Medicine Framework for Identifying Drug Repurposing Opportunities for COVID-19. ArXiv Org, 2020, , . | 1.2 | 4 |
| 17 | Network-based prediction of protein interactions. Nature Communications, 2019, 10, 1240. | 5.8 | 293 |
| 18 | Network-based prediction of drug combinations. Nature Communications, 2019, 10, 1197. | 5.8 | 437 |

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| 19 | The universal decay of collective memory and attention. Nature Human Behaviour, 2019, 3, 82-91. | 6.2 | 86 |
| 20 | Science of science, 2018, 359, . | 6.0 | 701 |
| 21 | Success in books: a big data approach to bestsellers. EPJ Data Science, 2018, 7, . | 1.5 | 27 |
| 22 | A structural transition in physical networks. Nature, 2018, 563, 676-680. | 13.7 | 37 |
| 23 | The chaperone effect in scientific publishing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12603-12607. | 3 . 3 | 84 |
| 24 | <i>Caenorhabditis elegans</i> and the network control framework—FAQs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170372. | 1.8 | 23 |
| 25 | Controllability in an islet specific regulatory network identifies the transcriptional factor NFATC4, which regulates Type 2 Diabetes associated genes. Npj Systems Biology and Applications, 2018, 4, 25. | 1.4 | 25 |
| 26 | Network-based approach to prediction and population-based validation of in silico drug repurposing. Nature Communications, 2018, 9, 2691. | 5 . 8 | 351 |
| 27 | Predicting perturbation patterns from the topology of biological networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6375-E6383. | 3.3 | 198 |
| 28 | Trade-offs between driving nodes and time-to-control in complex networks. Scientific Reports, 2017, 7, 39978. | 1.6 | 20 |
| 29 | Fundamental limitations of network reconstruction from temporal data. Journal of the Royal Society Interface, 2017, 14, 20160966. | 1.5 | 51 |
| 30 | Integrating personalized gene expression profiles into predictive disease-associated gene pools. Npj Systems Biology and Applications, 2017, 3, 10. | 1.4 | 54 |
| 31 | 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. Cardiovascular Research, 2017, 113, 725-736. | 1.8 | 114 |
| 32 | Identifying and modeling the structural discontinuities of human interactions. Scientific Reports, 2017, 7, 46677. | 1.6 | 38 |
| 33 | Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. Progress in Preventive Medicine (New York, N Y), 2017, 2, e006. | 0.7 | 6 |
| 34 | From comorbidities of chronic obstructive pulmonary disease to identification of shared molecular mechanisms by data integration. BMC Bioinformatics, 2016, 17, 441. | 1.2 | 20 |
| 35 | An interâ€species protein–protein interaction network across vast evolutionary distance. Molecular Systems Biology, 2016, 12, 865. | 3.2 | 42 |
| 36 | Controllability analysis of the directed human protein interaction network identifies disease genes and drug targets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4976-4981. | 3.3 | 249 |

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| 37 | Control principles of complex systems. Reviews of Modern Physics, 2016, 88, . | 16.4 | 452 |
| 38 | Controllability of multiplex, multi-time-scale networks. Physical Review E, 2016, 94, 032316. | 0.8 | 53 |
| 39 | Tissue Specificity of Human Disease Module. Scientific Reports, 2016, 6, 35241. | 1.6 | 99 |
| 40 | PARP9 and PARP14 cross-regulate macrophage activation via STAT1 ADP-ribosylation. Nature Communications, 2016, 7, 12849. | 5.8 | 214 |
| 41 | Endophenotype Network Models: Common Core of Complex Diseases. Scientific Reports, 2016, 6, 27414. | 1.6 | 72 |
| 42 | Network-based in silico drug efficacy screening. Nature Communications, 2016, 7, 10331. | 5.8 | 394 |
| 43 | Quantifying the evolution of individual scientific impact. Science, 2016, 354, . | 6.0 | 390 |
| 44 | Scaling identity connects human mobility and social interactions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7047-7052. | 3.3 | 75 |
| 45 | Universal resilience patterns in complex networks. Nature, 2016, 530, 307-312. | 13.7 | 754 |
| 46 | Constructing minimal models for complex system dynamics. Nature Communications, 2015, 6, 7186. | 5.8 | 69 |
| 47 | Uncovering disease-disease relationships through the incomplete interactome. Science, 2015, 347, 1257601. | 6.0 | 1,219 |
| 48 | A disease module in the interactome explains disease heterogeneity, drug response and captures novel pathways and genes in asthma. Human Molecular Genetics, 2015, 24, 3005-3020. | 1.4 | 162 |
| 49 | A DIseAse MOdule Detection (DIAMOnD) Algorithm Derived from a Systematic Analysis of Connectivity Patterns of Disease Proteins in the Human Interactome. PLoS Computational Biology, 2015, 11, e1004120. | 1.5 | 310 |
| 50 | Destruction perfected. Nature, 2015, 524, 38-39. | 13.7 | 36 |
| 51 | Quantifying Information Flow During Emergencies. Scientific Reports, 2015, 4, 3997. | 1.6 | 46 |
| 52 | Widespread Macromolecular Interaction Perturbations in Human Genetic Disorders. Cell, 2015, 161, 647-660. | 13.5 | 482 |
| 53 | A century of physics. Nature Physics, 2015, 11, 791-796. | 6.5 | 117 |
| 54 | Spectrum of controlling and observing complexÂnetworks. Nature Physics, 2015, 11, 779-786. | 6.5 | 212 |

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| 55 | Returners and explorers dichotomy in human mobility. Nature Communications, 2015, 6, 8166. | 5. 8 | 300 |
| 56 | Modules, networks and systems medicine for understanding disease and aiding diagnosis. Genome Medicine, 2014, 6, 82. | 3.6 | 169 |
| 57 | A diVlsive Shuffling Approach (VIStA) for gene expression analysis to identify subtypes in Chronic Obstructive Pulmonary Disease. BMC Systems Biology, 2014, 8, S8. | 3.0 | 24 |
| 58 | Target control of complex networks. Nature Communications, 2014, 5, 5415. | 5.8 | 311 |
| 59 | Response to Comment on "Quantifying long-term scientific impact― Science, 2014, 345, 149-149. | 6.0 | 6 |
| 60 | A Proteome-Scale Map of the Human Interactome Network. Cell, 2014, 159, 1212-1226. | 13.5 | 1,199 |
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| 62 | Human symptoms–disease network. Nature Communications, 2014, 5, 4212. | 5.8 | 557 |
| 63 | A network framework of cultural history. Science, 2014, 345, 558-562. | 6.0 | 151 |
| 64 | Systems Medicine: from molecular features and models to the clinic in COPD. Journal of Translational Medicine, 2014, 12, S4. | 1.8 | 23 |
| 65 | Computational Models of Mobility: A Perspective from Mobile Phone Data. , 2014, , 110-124. | | 2 |
| 66 | A genetic epidemiology approach to cyber-security. Scientific Reports, 2014, 4, 5659. | 1.6 | 18 |
| 67 | Career on the Move: Geography, Stratification and Scientific Impact. Scientific Reports, 2014, 4, 4770. | 1.6 | 128 |
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| 72 | Observability of complex systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2460-2465. | 3.3 | 407 |

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| 75 | Emergence of bimodality in controlling complex networks. Nature Communications, 2013, 4, 2002. | 5.8 | 187 |
| 76 | Control Capacity and A Random Sampling Method in Exploring Controllability of Complex Networks. Scientific Reports, 2013, 3, 2354. | 1.6 | 118 |
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| 83 | MicroRNA-21 Integrates Pathogenic Signaling to Control Pulmonary Hypertension. Circulation, 2012, 125, 1520-1532. | 1.6 | 246 |
| 84 | Luck or reason. Nature, 2012, 489, 507-508. | 13.7 | 98 |
| 85 | Dynamics of Ranking Processes in Complex Systems. Physical Review Letters, 2012, 109, 128701. | 2.9 | 54 |
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| 95 | Interactome Networks and Human Disease. Cell, 2011, 144, 986-998. | 13.5 | 1,543 |
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| 101 | Liu et al. reply. Nature, 2011, 478, E4-E5. | 13.7 | 17 |
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| 110 | Understanding the Spreading Patterns of Mobile Phone Viruses. Science, 2009, 324, 1071-1076. | 6.0 | 407 |
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| 116 | High-Quality Binary Protein Interaction Map of the Yeast Interactome Network. Science, 2008, 322, 104-110. | 6.0 | 1,297 |
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| 125 | Human disease classification in the postgenomic era: A complex systems approach to human pathobiology. Molecular Systems Biology, 2007, 3, 124. | 3.2 | 489 |
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| 135 | A Protein–Protein Interaction Network for Human Inherited Ataxias and Disorders of Purkinje Cell Degeneration. Cell, 2006, 125, 801-814. | 13.5 | 714 |
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| 137 | Stable evolutionary signal in a yeast protein interaction network. BMC Evolutionary Biology, 2006, 6, 8. | 3.2 | 59 |
| 138 | Power Laws in Biological Networks. , 2006, , 1-11. | | 15 |
| 139 | THE ARCHITECTURE OF COMPLEXITY: FROM WWW TO CELLULAR METABOLISM. , 2006, , 107-125. | | 2 |
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| 141 | The origin of bursts and heavy tails in human dynamics. Nature, 2005, 435, 207-211. | 13.7 | 1,896 |
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| 150 | Aggregation of topological motifs in the Escherichia coli transcriptional regulatory network. BMC Bioinformatics, 2004, 5, 10. | 1.2 | 206 |
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| 154 | Modeling the Internet's large-scale topology. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13382-13386. | 3.3 | 520 |
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| 159 | Morphology of ion-sputtered surfaces. Nuclear Instruments & Methods in Physics Research B, 2002, 197, 185-227. | 0.6 | 446 |
| 160 | Bose-Einstein Condensation in Complex Networks. Physical Review Letters, 2001, 86, 5632-5635. | 2.9 | 593 |
| 161 | Deterministic scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 559-564. | 1.2 | 381 |
| 162 | Spectra of "real-world―graphs: Beyond the semicircle law. Physical Review E, 2001, 64, 026704. | 0.8 | 354 |

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| 187 | Characteristics of Biological Networks. Lecture Notes in Physics, 0, , 443-457. | 0.3 | 6 |