

Istvan U Albert

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

9,406
citations

109321

35
h-index

114465

63
g-index

66
all docs

66
docs citations

66
times ranked

14258
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Galaxy: A platform for interactive large-scale genome analysis. <i>Genome Research</i> , 2005, 15, 1451-1455. | 5.5 | 1,795 |
| 2 | Structural vulnerability of the North American power grid. <i>Physical Review E</i> , 2004, 69, 025103. | 2.1 | 1,046 |
| 3 | Nucleosome organization in the <i>Drosophila</i> genome. <i>Nature</i> , 2008, 453, 358-362. | 27.8 | 636 |
| 4 | Translational and rotational settings of H2A.Z nucleosomes across the <i>Saccharomyces cerevisiae</i> genome. <i>Nature</i> , 2007, 446, 572-576. | 27.8 | 610 |
| 5 | A barrier nucleosome model for statistical positioning of nucleosomes throughout the yeast genome. <i>Genome Research</i> , 2008, 18, 1073-1083. | 5.5 | 591 |
| 6 | Microbiome remodelling leads to inhibition of intestinal farnesoid X receptor signalling and decreased obesity. <i>Nature Communications</i> , 2013, 4, 2384. | 12.8 | 549 |
| 7 | Intestinal farnesoid X receptor signaling promotes nonalcoholic fatty liver disease. <i>Journal of Clinical Investigation</i> , 2015, 125, 386-402. | 8.2 | 517 |
| 8 | Nucleosome positions predicted through comparative genomics. <i>Nature Genetics</i> , 2006, 38, 1210-1215. | 21.4 | 283 |
| 9 | Boolean network simulations for life scientists. <i>Source Code for Biology and Medicine</i> , 2008, 3, 16. | 1.7 | 280 |
| 10 | What keeps sandcastles standing?. <i>Nature</i> , 1997, 387, 765-765. | 27.8 | 273 |
| 11 | Persistent Organic Pollutants Modify Gut Microbiota—Host Metabolic Homeostasis in Mice Through Aryl Hydrocarbon Receptor Activation. <i>Environmental Health Perspectives</i> , 2015, 123, 679-688. | 6.0 | 262 |
| 12 | Rapid magnetic isolation of extracellular vesicles via lipid-based nanoprobe. <i>Nature Biomedical Engineering</i> , 2017, 1, . | 22.5 | 188 |
| 13 | Conserved network motifs allow protein-protein interaction prediction. <i>Bioinformatics</i> , 2004, 20, 3346-3352. | 4.1 | 179 |
| 14 | Attractor analysis of asynchronous Boolean models of signal transduction networks. <i>Journal of Theoretical Biology</i> , 2010, 266, 641-656. | 1.7 | 163 |
| 15 | Dynamical and Structural Analysis of a T Cell Survival Network Identifies Novel Candidate Therapeutic Targets for Large Granular Lymphocyte Leukemia. <i>PLoS Computational Biology</i> , 2011, 7, e1002267. | 3.2 | 162 |
| 16 | A rapid and label-free platform for virus capture and identification from clinical samples. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 895-901. | 7.1 | 157 |
| 17 | Jamming and Fluctuations in Granular Drag. <i>Physical Review Letters</i> , 2000, 84, 5122-5125. | 7.8 | 139 |
| 18 | Maximum angle of stability in wet and dry spherical granular media. <i>Physical Review E</i> , 1997, 56, R6271-R6274. | 2.1 | 133 |

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|----|---|------|-----------|
| 19 | A framework for collaborative analysis of ENCODE data: Making large-scale analyses biologist-friendly. <i>Genome Research</i> , 2007, 17, 960-964. | 5.5 | 122 |
| 20 | Gene expression during zombie ant biting behavior reflects the complexity underlying fungal parasitic behavioral manipulation. <i>BMC Genomics</i> , 2015, 16, 620. | 2.8 | 107 |
| 21 | GeneTrack—a genomic data processing and visualization framework. <i>Bioinformatics</i> , 2008, 24, 1305-1306. | 4.1 | 94 |
| 22 | BioStar: An Online Question & Answer Resource for the Bioinformatics Community. <i>PLoS Computational Biology</i> , 2011, 7, e1002216. | 3.2 | 82 |
| 23 | Tunable and label-free virus enrichment for ultrasensitive virus detection using carbon nanotube arrays. <i>Science Advances</i> , 2016, 2, e1601026. | 10.3 | 73 |
| 24 | Genome-wide real-time in vivo transcriptional dynamics during <i>Plasmodium falciparum</i> blood-stage development. <i>Nature Communications</i> , 2018, 9, 2656. | 12.8 | 73 |
| 25 | Testing the kinship theory of intragenomic conflict in honey bees (<i>Apis mellifera</i>). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1020-1025. | 7.1 | 69 |
| 26 | NusA-dependent transcription termination prevents misregulation of global gene expression. <i>Nature Microbiology</i> , 2016, 1, 15007. | 13.3 | 68 |
| 27 | Molecular tandem repeat strategy for elucidating mechanical properties of high-strength proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6478-6483. | 7.1 | 63 |
| 28 | Selection on <i>Aedes aegypti</i> alters Wolbachia-mediated dengue virus blocking and fitness. <i>Nature Microbiology</i> , 2019, 4, 1832-1839. | 13.3 | 62 |
| 29 | Impact of Helminth Infections and Nutritional Constraints on the Small Intestine Microbiota. <i>PLoS ONE</i> , 2016, 11, e0159770. | 2.5 | 60 |
| 30 | A critical role of RBM8a in proliferation and differentiation of embryonic neural progenitors. <i>Neural Development</i> , 2015, 10, 18. | 2.4 | 52 |
| 31 | Rapid and asymmetric divergence of duplicate genes in the human gene coexpression network. <i>BMC Bioinformatics</i> , 2006, 7, 46. | 2.6 | 45 |
| 32 | Materials Fabrication from Native and Recombinant Thermoplastic Squid Proteins. <i>Advanced Functional Materials</i> , 2014, 24, 7401-7409. | 14.9 | 44 |
| 33 | Dominant Effects of the Diet on the Microbiome and the Local and Systemic Immune Response in Mice. <i>PLoS ONE</i> , 2014, 9, e86366. | 2.5 | 41 |
| 34 | Regulating life or death: Potential role of microRNA in rescue of the corpus luteum. <i>Molecular and Cellular Endocrinology</i> , 2014, 398, 78-88. | 3.2 | 37 |
| 35 | Comparative Analysis of Super-Shedder Strains of <i>Escherichia coli</i> O157:H7 Reveals Distinctive Genomic Features and a Strongly Aggregative Adherent Phenotype on Bovine Rectoanal Junction Squamous Epithelial Cells. <i>PLoS ONE</i> , 2015, 10, e0116743. | 2.5 | 36 |
| 36 | Disease dynamics in a dynamic social network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 2663-2674. | 2.6 | 31 |

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|----|--|------|-----------|
| 37 | VirAmp: a galaxy-based viral genome assembly pipeline. <i>GigaScience</i> , 2015, 4, 19. | 6.4 | 30 |
| 38 | In vivo genome-wide binding interactions of mouse and human constitutive androstane receptors reveal novel gene targets. <i>Nucleic Acids Research</i> , 2018, 46, 8385-8403. | 14.5 | 27 |
| 39 | White Button Mushrooms Increase Microbial Diversity and Accelerate the Resolution of <i>Citrobacter rodentium</i> Infection in Mice. <i>Journal of Nutrition</i> , 2013, 143, 526-532. | 2.9 | 26 |
| 40 | Genomic characterization of a turkey reovirus field strain by Next-Generation Sequencing. <i>Infection, Genetics and Evolution</i> , 2015, 32, 313-321. | 2.3 | 21 |
| 41 | Spatial distribution of bacterial communities on volumetric and planar anodes in single-chamber air-cathode microbial fuel cells. <i>Biotechnology and Bioengineering</i> , 2013, 110, 3059-3062. | 3.3 | 19 |
| 42 | Paternal nicotine enhances fear memory, reduces nicotine administration, and alters hippocampal genetic and neural function in offspring. <i>Addiction Biology</i> , 2021, 26, e12859. | 2.6 | 19 |
| 43 | <i>Caldichromatium japonicum</i> gen. nov., sp. nov., a novel thermophilic phototrophic purple sulphur bacterium of the Chromatiaceae isolated from Nakabusa hot springs, Japan. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5701-5710. | 1.7 | 17 |
| 44 | Transcriptome Analyses of Heart and Liver Reveal Novel Pathways for Regulating Songbird Migration. <i>Scientific Reports</i> , 2019, 9, 6058. | 3.3 | 16 |
| 45 | Artificial Selection Finds New Hypotheses for the Mechanism of Wolbachia-Mediated Dengue Blocking in Mosquitoes. <i>Frontiers in Microbiology</i> , 2020, 11, 1456. | 3.5 | 15 |
| 46 | Relating Microbial Community Structure and Geochemistry in Deep Regolith Developed on Volcaniclastic Rock in the Luquillo Mountains, Puerto Rico. <i>Geomicrobiology Journal</i> , 2015, 32, 494-510. | 2.0 | 12 |
| 47 | Bioinformatic analysis of microRNA networks following the activation of the constitutive androstane receptor (CAR) in mouse liver. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016, 1859, 1228-1237. | 1.9 | 10 |
| 48 | Puf3 participates in ribosomal biogenesis in malaria parasites. <i>Journal of Cell Science</i> , 2018, 131, . | 2.0 | 8 |
| 49 | Whole-Genome Sequence of Infectious Pancreatic Necrosis Virus Isolated from Farmed Brook Trout (<i>Salvelinus fontinalis</i>) in Pennsylvania. <i>Genome Announcements</i> , 2018, 6, . | 0.8 | 7 |
| 50 | Whole-genome sequence analysis reveals unique SNP profiles to distinguish vaccine and wild-type strains of bovine herpesvirus-1 (BoHV-1). <i>Virology</i> , 2018, 522, 27-36. | 2.4 | 7 |
| 51 | Effects of Spent Mushroom Compost (SMC) as an Ingredient in Phase I Compost on Production of <i>Agaricus bisporus</i> . <i>Compost Science and Utilization</i> , 2016, 24, 246-258. | 1.2 | 6 |
| 52 | The influence of adolescent nicotine exposure on ethanol intake and brain gene expression. <i>PLoS ONE</i> , 2018, 13, e0198935. | 2.5 | 6 |
| 53 | Advantageous microbial community development and improved performance of pilot-scale field systems treating high-risk acid mine drainage with crab shell. <i>Journal of Hazardous Materials</i> , 2021, 420, 126665. | 12.4 | 6 |
| 54 | Complete Genome Sequences of Three Related Avian Avulavirus 1 Isolates from Poultry Farmers in Pakistan. <i>Genome Announcements</i> , 2018, 6, . | 0.8 | 5 |

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|----|---|------|-----------|
| 55 | Adolescent Stress Reduces Adult Morphine-Induced Behavioral Sensitization in C57BL/6J Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 678102. | 2.0 | 5 |
| 56 | Metformin Affects the Transcriptomic Profile of Chicken Ovarian Cancer Cells. <i>Genes</i> , 2022, 13, 30. | 2.4 | 5 |
| 57 | Complete Genome Sequence of <i>Mycobacterium orygis</i> Strain 51145. <i>Microbiology Resource Announcements</i> , 2021, 10, . | 0.6 | 4 |
| 58 | RNAseq studies reveal distinct transcriptional response to vitamin A deficiency in small intestine versus colon, uncovering novel vitamin A-regulated genes. <i>Journal of Nutritional Biochemistry</i> , 2021, 98, 108814. | 4.2 | 4 |
| 59 | Genomic and Phenotypic Characterization of <i>Chloracidobacterium</i> Isolates Provides Evidence for Multiple Species. <i>Frontiers in Microbiology</i> , 2021, 12, 704168. | 3.5 | 3 |
| 60 | Transcriptional Profiling of the Small Intestine and the Colon Reveals Modulation of Gut Infection with <i>Citrobacter rodentium</i> According to the Vitamin A Status. <i>Nutrients</i> , 2022, 14, 1563. | 4.1 | 2 |
| 61 | Bioinformatics recipes: creating, executing and distributing reproducible data analysis workflows. <i>BMC Bioinformatics</i> , 2020, 21, 292. | 2.6 | 1 |
| 62 | <i>Elioraea tepida</i> , sp. nov., a Moderately Thermophilic Aerobic Anoxygenic Phototrophic Bacterium Isolated from the Mat Community of an Alkaline Siliceous Hot Spring in Yellowstone National Park, WY, USA. <i>Microorganisms</i> , 2022, 10, 80. | 3.6 | 1 |
| 63 | Whole-Genome Sequences of 18 Bovine Alphaherpesvirus 1 Field Isolates from Pennsylvania and Minnesota. <i>Genome Announcements</i> , 2018, 6, . | 0.8 | 0 |
| 64 | Addendum: Transcriptomics and proteomics reveal two waves of translational repression during the maturation of malaria parasite sporozoites. <i>Nature Communications</i> , 2022, 13, 283. | 12.8 | 0 |