

# Alexander V Predeus

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,216  
citations

393982

19  
h-index

433756

31  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1731  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Caloric restriction in humans reveals immunometabolic regulators of health span. <i>Science</i> , 2022, 375, 671-677.  | 6.0 | 118       |
| 2  | PRIMO: A Transferable Coarse-Grained Force Field for Proteins. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3769-3788.   | 2.3 | 87        |
| 3  | Systematic dissection of biases in whole-exome and whole-genome sequencing reveals major determinants of coding sequence coverage. <i>Scientific Reports</i> , 2020, 10, 2057.   | 1.6 | 72        |
| 4  | Diels-Alder Reaction-Aromatization Approach toward Functionalized Ring C Allocolchicinoids. Enantioselective Total Synthesis of (S)-7S-Allocolchicine. <i>Journal of Organic Chemistry</i> , 2003, 68, 5826-5831.                            | 1.7 | 68        |
| 5  | Regulation of Orthogonal Functions in a Dual Catalyst System. Subservient Role of a Nonchiral Lewis Acid in an Asymmetric Catalytic Heteroatom Diels-Alder Reaction. <i>Journal of the American Chemical Society</i> , 2007, 129, 7216-7217. | 6.6 | 68        |
| 6  | Stepwise evolution of <i>Salmonella</i> Typhimurium ST313 causing bloodstream infection in Africa. <i>Nature Microbiology</i> , 2021, 6, 327-338.  | 5.9 | 68        |
| 7  | Adding function to the genome of African <i>Salmonella</i> Typhimurium ST313 strain D23580. <i>PLoS Biology</i> , 2019, 17, e3000059.  | 2.6 | 62        |
| 8  | Conformational Sampling of Peptides in the Presence of Protein Crowders from AA/CG-Multiscale Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8610-8620.  | 1.2 | 53        |
| 9  | Unifying model for molecular determinants of the preselection $\sqrt{V}^2$ repertoire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3206-15.   | 3.3 | 50        |
| 10 | DNA Bending Propensity in the Presence of Base Mismatches: Implications for DNA Repair. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6194-6205.   | 1.2 | 45        |
| 11 | Optically Active Calixarenes Conduced by Methylene Substitution. <i>Journal of the American Chemical Society</i> , 2009, 131, 18018-18019.   | 6.6 | 42        |
| 12 | Energetic and Structural Details of the Trigger-Loop Closing Transition in RNA Polymerase II. <i>Biophysical Journal</i> , 2013, 105, 767-775.   | 0.2 | 36        |
| 13 | Intracellular niche-specific profiling reveals transcriptional adaptations required for the cytosolic lifestyle of <i>Salmonella enterica</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009280.  | 2.1 | 34        |
| 14 | Effect of gene-lifestyle interaction on gestational diabetes risk. <i>Oncotarget</i> , 2017, 8, 112024-112035.   | 0.8 | 34        |
| 15 | Whole-exome sequencing provides insights into monogenic disease prevalence in Northwest Russia. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e964.  | 0.6 | 27        |
| 16 | Phenome-wide functional dissection of pleiotropic effects highlights key molecular pathways for human complex traits. <i>Scientific Reports</i> , 2020, 10, 1037.  | 1.6 | 27        |
| 17 | Catching hidden variation: systematic correction of reference minor allele annotation in clinical variant calling. <i>Genetics in Medicine</i> , 2018, 20, 360-364.  | 1.1 | 26        |
| 18 | Targeted Chromatin Profiling Reveals Novel Enhancers in Ig H and Ig L Chain Loci. <i>Journal of Immunology</i> , 2014, 192, 1064-1070.   | 0.4 | 23        |

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|----|--|-----|-----------|
| 19 | Systematic benchmark of state-of-the-art variant calling pipelines identifies major factors affecting accuracy of coding sequence variant discovery. <i>BMC Genomics</i> , 2022, 23, 155.                              | 1.2 | 23        |
| 20 | Identification of Novel Candidate Markers of Type 2 Diabetes and Obesity in Russia by Exome Sequencing with a Limited Sample Size. <i>Genes</i> , 2018, 9, 415.  | 1.0 | 22        |
| 21 | Differential Mismatch Recognition Specificities of Eukaryotic MutS Homologs, MutS <sup>±</sup> and MutS <sup>2</sup> . <i>Biophysical Journal</i> , 2014, 106, 2483-2492.  | 0.2 | 20        |
| 22 | An accessible, efficient and global approach for the large-scale sequencing of bacterial genomes. <i>Genome Biology</i> , 2021, 22, 349.   | 3.8 | 20        |
| 23 | New Intranuclear Symbiotic Bacteria from Macronucleus of <i>Paramecium putrinum</i> "Candidatus Gortzia Yakutica". <i>Diversity</i> , 2020, 12, 198.   | 0.7 | 19        |
| 24 | Whole-exome sequencing in Russian children with non-type 1 diabetes mellitus reveals a wide spectrum of genetic variants in MODY-related and unrelated genes. <i>Molecular Medicine Reports</i> , 2019, 20, 4905-4914. | 1.1 | 18        |
| 25 | Salmonella identified in pigs in Kenya and Malawi reveals the potential for zoonotic transmission in emerging pork markets. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008796.                              | 1.3 | 17        |
| 26 | The limits of Quediini at last (Staphylinidae: Staphylininae): a rove beetle mega-radiation resolved by comprehensive sampling and anchored phylogenomics. <i>Systematic Entomology</i> , 2021, 46, 396-421.           | 1.7 | 16        |
| 27 | Truncating Variant in Myof Gene Is Associated With Limb-Girdle Type Muscular Dystrophy and Cardiomyopathy. <i>Frontiers in Genetics</i> , 2019, 10, 608.   | 1.1 | 10        |
| 28 | Next-Generation Sequencing of Matched Ectopic and Eutopic Endometrium Identifies Novel Endometriosis-Related Genes. <i>Russian Journal of Genetics</i> , 2018, 54, 1358-1365.  | 0.2 | 8         |
| 29 | Rational Synthesis for All <i>All</i> -Homocalixarenes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 911-915.  | 7.2 | 7         |
| 30 | Chromosome-level genome assembly and structural variant analysis of two laboratory yeast strains from the Peterhof Genetic Collection lineage. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .                       | 0.8 | 7         |
| 31 | Long-Range Signaling in MutS and MSH Homologs via Switching of Dynamic Communication Pathways. <i>PLoS Computational Biology</i> , 2016, 12, e1005159.   | 1.5 | 7         |
| 32 | Complete Genome Sequences of African <i>Salmonella enterica</i> Serovar Enteritidis Clinical Isolates Associated with Bloodstream Infection. <i>Microbiology Resource Announcements</i> , 2021, 10, .                  | 0.3 | 6         |
| 33 | Synthesis of [ <i>m.n</i> ]Cyclophanes: Regiochemistry Transfer from Vinyl Halides to Cyclophanes via Fischer Carbene Complexes. <i>Chemistry - A European Journal</i> , 2013, 19, 8261-8267.                          | 1.7 | 5         |
| 34 | Transcriptome analysis of crown gall in radish ( <i>Raphanus sativus</i> L.) inbred lines. <i>Annals of Applied Biology</i> , 2021, 178, 527-548.  | 1.3 | 5         |
| 35 | RNA Sequencing of Whole Blood Defines the Signature of High Intensity Exercise at Altitude in Elite Speed Skaters. <i>Genes</i> , 2022, 13, 574.   | 1.0 | 5         |
| 36 | Transcriptomic Analysis of Radish ( <i>Raphanus sativus</i> L.) Spontaneous Tumor. <i>Plants</i> , 2021, 10, 919.  | 1.6 | 4         |

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|----|--|-----|-----------|
| 37 | Mitochondrial gene order of the freshwater bryozoan <i>Cristatella mucedo</i> retains ancestral lophotrochozoan features. <i>Mitochondrion</i> , 2021, 59, 96-104.                   | 1.6 | 3         |
| 38 | NEXT-GENERATION GENE SEQUENCING AND ITS APPLICATIONS IN ONCOHEMATOLOGY. <i>Oncogematologiya</i> , 2016, 11, 56-63.   | 0.1 | 3         |
| 39 | Species-Specific Proteins in the Oviducts of Snail Sibling Species: Proteotranscriptomic Study of <i>Littorina fabalis</i> and <i>L. obtusata</i> . <i>Biology</i> , 2021, 10, 1087. | 1.3 | 2         |
| 40 | DNA Bending and Discrimination of Mismatches by MutS and Human Homologs. <i>Biophysical Journal</i> , 2014, 106, 691a-692a.  | 0.2 | 0         |
| 41 | Data on RNA-seq analysis of the oviducts of five closely related species genus <i>Littorina</i> (Mollusca,) Tj ETQq1 1 0.784314 rgBT /Overload 108122.                               | 0.5 | 0         |