

Alicia K Byrd

List of Publications by Year in descending order

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44
papers

1,522
citations

218381

26
h-index

329751

37
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45
all docs

45
docs citations

45
times ranked

1507
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Protein displacement by an assembly of helicase molecules aligned along single-stranded DNA. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 531-538. | 3.6 | 121 |
| 2 | Superfamily 2 helicases. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 2070. | 3.0 | 109 |
| 3 | Pre-steady-state DNA unwinding by bacteriophage T4 Dda helicase reveals a monomeric molecular motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14722-14727. | 3.3 | 82 |
| 4 | A CRISPR-based approach for proteomic analysis of a single genomic locus. <i>Epigenetics</i> , 2014, 9, 1207-1211. | 1.3 | 71 |
| 5 | Evidence That G-quadruplex DNA Accumulates in the Cytoplasm and Participates in Stress Granule Assembly in Response to Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2016, 291, 18041-18057. | 1.6 | 71 |
| 6 | Structure and Mechanisms of SF1 DNA Helicases. <i>Advances in Experimental Medicine and Biology</i> , 2013, 767, 17-46. | 0.8 | 63 |
| 7 | Hepatitis C Virus NS3 and Simian Virus 40 T Antigen Helicases Displace Streptavidin from 5'-Biotinylated Oligonucleotides but Not from 3'-Biotinylated Oligonucleotides: Evidence for Directional Bias in Translocation on Single-Stranded DNA. <i>Biochemistry</i> , 2002, 41, 2372-2378. | 1.2 | 62 |
| 8 | A Parallel Quadruplex DNA Is Bound Tightly but Unfolded Slowly by Pif1 Helicase. <i>Journal of Biological Chemistry</i> , 2015, 290, 6482-6494. | 1.6 | 58 |
| 9 | proteiNorm – A User-Friendly Tool for Normalization and Analysis of TMT and Label-Free Protein Quantification. <i>ACS Omega</i> , 2020, 5, 25625-25633. | 1.6 | 53 |
| 10 | Displacement of a DNA binding protein by Dda helicase. <i>Nucleic Acids Research</i> , 2006, 34, 3020-3029. | 6.5 | 52 |
| 11 | A serotonin-induced N-glycan switch regulates platelet aggregation. <i>Scientific Reports</i> , 2013, 3, 2795. | 1.6 | 52 |
| 12 | Increasing the Length of the Single-Stranded Overhang Enhances Unwinding of Duplex DNA by Bacteriophage T4 Dda Helicase. <i>Biochemistry</i> , 2005, 44, 12990-12997. | 1.2 | 51 |
| 13 | Structure and function of Pif1 helicase. <i>Biochemical Society Transactions</i> , 2017, 45, 1159-1171. | 1.6 | 51 |
| 14 | Yeast Pif1 Helicase Exhibits a One-base-pair Stepping Mechanism for Unwinding Duplex DNA. <i>Journal of Biological Chemistry</i> , 2013, 288, 16185-16195. | 1.6 | 49 |
| 15 | Dda Helicase Tightly Couples Translocation on Single-Stranded DNA to Unwinding of Duplex DNA: Dda Is an Optimally Active Helicase. <i>Journal of Molecular Biology</i> , 2012, 420, 141-154. | 2.0 | 40 |
| 16 | <sc>SSB</sc> binds to the RecG and PriA helicases <i>in vivo</i> in the absence of <sc>DNA</sc>. <i>Genes To Cells</i> , 2016, 21, 163-184. | 0.5 | 39 |
| 17 | Yeast transcription co-activator Sub1 and its human homolog PC4 preferentially bind to G-quadruplex DNA. <i>Chemical Communications</i> , 2015, 51, 7242-7244. | 2.2 | 38 |
| 18 | Pif1 helicase unfolding of G-quadruplex DNA is highly dependent on sequence and reaction conditions. <i>Journal of Biological Chemistry</i> , 2018, 293, 17792-17802. | 1.6 | 38 |

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|----|--|-----|-----------|
| 19 | G-Quadruplex loops regulate PARP-1 enzymatic activation. <i>Nucleic Acids Research</i> , 2021, 49, 416-431. | 6.5 | 38 |
| 20 | Yeast Helicase Pif1 Unwinds RNA:DNA Hybrids with Higher Processivity than DNA:DNA Duplexes. <i>Journal of Biological Chemistry</i> , 2016, 291, 5889-5901. | 1.6 | 37 |
| 21 | Mitochondrial genetic variation is enriched in G-quadruplex regions that stall DNA synthesis in vitro. <i>Human Molecular Genetics</i> , 2020, 29, 1292-1309. | 1.4 | 36 |
| 22 | The T4 Phage SF1B Helicase Dda Is Structurally Optimized to Perform DNA Strand Separation. <i>Structure</i> , 2012, 20, 1189-1200. | 1.6 | 35 |
| 23 | Novel, fluorescent, SSB protein chimeras with broad utility. <i>Protein Science</i> , 2011, 20, 1005-1020. | 3.1 | 31 |
| 24 | Yeast Pif1 Accelerates Annealing of Complementary DNA Strands. <i>Biochemistry</i> , 2014, 53, 7659-7669. | 1.2 | 31 |
| 25 | Investigation of Translocation, DNA Unwinding, and Protein Displacement by NS3h, the Helicase Domain from the Hepatitis C Virus Helicase. <i>Biochemistry</i> , 2010, 49, 2097-2109. | 1.2 | 30 |
| 26 | DEAD-box RNA helicases Dbp2, Ded1 and Mss116 bind to G-quadruplex nucleic acids and destabilize G-quadruplex RNA. <i>Chemical Communications</i> , 2019, 55, 4467-4470. | 2.2 | 26 |
| 27 | Structural basis for DNA unwinding at forked dsDNA by two coordinating Pif1 helicases. <i>Nature Communications</i> , 2019, 10, 5375. | 5.8 | 18 |
| 28 | N-Naphthoyl-substituted indole thio-barbituric acid analogs inhibit the helicase activity of the hepatitis C virus NS3. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 430-434. | 1.0 | 17 |
| 29 | Genome Maintenance by DNA Helicase B. <i>Genes</i> , 2020, 11, 578. | 1.0 | 11 |
| 30 | Direct quantification of the translocation activities of <i>Saccharomyces cerevisiae</i> Pif1 helicase. <i>Nucleic Acids Research</i> , 2019, 47, 7494-7501. | 6.5 | 10 |
| 31 | Simultaneous binding to the tracking strand, displaced strand and the duplex of a DNA fork enhances unwinding by Dda helicase. <i>Nucleic Acids Research</i> , 2014, 42, 11707-11720. | 6.5 | 9 |
| 32 | Analysis of Protein-protein Interaction Interface between Yeast Mitochondrial Proteins Rim1 and Pif1 Using Chemical Cross-linking Mass Spectrometry. <i>Journal of Proteomics and Bioinformatics</i> , 2015, 8, 243-252. | 0.4 | 9 |
| 33 | G-quadruplex DNA inhibits unwinding activity but promotes liquid-liquid phase separation by the DEAD-box helicase Ded1p. <i>Chemical Communications</i> , 2021, 57, 7445-7448. | 2.2 | 9 |
| 34 | Multi-omics data integration reveals correlated regulatory features of triple negative breast cancer. <i>Molecular Omics</i> , 2021, 17, 677-691. | 1.4 | 9 |
| 35 | Protein-protein interaction analysis for functional characterization of helicases. <i>Methods</i> , 2016, 108, 56-64. | 1.9 | 8 |
| 36 | A biochemical and biophysical model of G-quadruplex DNA recognition by positive coactivator of transcription 4. <i>Journal of Biological Chemistry</i> , 2017, 292, 9567-9582. | 1.6 | 8 |

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|----|--|-----|-----------|
| 37 | Fine tuning of a DNA fork by the RecQ helicase. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15263-15264. | 3.3 | 6 |
| 38 | The Expression of Human DNA Helicase B Is Affected by G-Quadruplexes in the Promoter. Biochemistry, 2020, 59, 2401-2409. | 1.2 | 6 |
| 39 | A structural feature of Dda helicase which enhances displacement of streptavidin and <i>trp</i> repressor from <i>scp</i> DNA. Protein Science, 2022, 31, 407-421. | 3.1 | 3 |
| 40 | Identifying RNA Helicase Inhibitors Using Duplex Unwinding Assays. Methods in Molecular Biology, 2021, 2209, 53-72. | 0.4 | 2 |
| 41 | Role and Regulation of Pif1 Family Helicases at the Replication Fork. International Journal of Molecular Sciences, 2022, 23, 3736. | 1.8 | 2 |
| 42 | G-Quadruplex Loop Length Regulates PARP1 Enzymatic Activation. FASEB Journal, 2019, 33, 619.3. | 0.2 | 0 |
| 43 | Monitoring helicase-catalyzed unwinding of multiple duplexes simultaneously. Methods in Enzymology, 2022, , . | 0.4 | 0 |
| 44 | Alignment of helicases on single-stranded DNA increases activity. Methods in Enzymology, 2022, , 29-54. | 0.4 | 0 |