

Nancy C Horton

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,353
citations

361413

20
h-index

265206

42
g-index

60
all docs

60
docs citations

60
times ranked

2236
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High-Resolution Structure of the Nuclease Domain of the Human Parvovirus B19 Main Replication Protein NS1. <i>Journal of Virology</i> , 2022, 96, e0216421. | 3.4 | 3 |
| 2 | A Diversity of Filamenting Enzymes. <i>FASEB Journal</i> , 2022, 36, . | 0.5 | 0 |
| 3 | Mechanism of Activation of SgrAI via Enzyme Filamentation and Mechanism of DNA Sequence Specificity Expansion. <i>FASEB Journal</i> , 2022, 36, . | 0.5 | 0 |
| 4 | Structures, Mechanism, and Functional Relevance of Filament Formation by SgrAI. <i>FASEB Journal</i> , 2022, 36, . | 0.5 | 0 |
| 5 | Influenza AM2 Channel Oligomerization Is Sensitive to Its Chemical Environment. <i>Analytical Chemistry</i> , 2021, 93, 16273-16281. | 6.5 | 12 |
| 6 | Novel insights into filament-forming enzymes. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 1-2. | 37.0 | 31 |
| 7 | Structure&Function Studies of the Helicase Domain of NS1 Protein of Human Parvovirus B19. <i>FASEB Journal</i> , 2020, 34, 1-1. | 0.5 | 0 |
| 8 | The Filament Forming Mechanism of SgrAI Endonuclease&Structural and Kinetic Analysis. <i>FASEB Journal</i> , 2020, 34, 1-1. | 0.5 | 0 |
| 9 | Filament Formation Induces a Shape Change and Activation of the Nuclease SgrAI. <i>FASEB Journal</i> , 2020, 34, 1-1. | 0.5 | 0 |
| 10 | Mechanism of Filamentation-Induced Allosteric Activation of the SgrAI Endonuclease. <i>Structure</i> , 2019, 27, 1497-1507.e3. | 3.3 | 13 |
| 11 | Structures, functions, and mechanisms of filament forming enzymes: a renaissance of enzyme filamentation. <i>Biophysical Reviews</i> , 2019, 11, 927-994. | 3.2 | 71 |
| 12 | Endonuclease Activity Inhibition of the NS1 Protein of Parvovirus B19 as a Novel Target for Antiviral Drug Development. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, . | 3.2 | 21 |
| 13 | The run-on oligomer filament enzyme mechanism of SgrAI: Part 2. Kinetic modeling of the full DNA cleavage pathway. <i>Journal of Biological Chemistry</i> , 2018, 293, 14599-14615. | 3.4 | 10 |
| 14 | The run-on oligomer filament enzyme mechanism of SgrAI: Part 1. Assembly kinetics of the run-on oligomer filament. <i>Journal of Biological Chemistry</i> , 2018, 293, 14585-14598. | 3.4 | 9 |
| 15 | DNA Binding and Cleavage by the Human Parvovirus B19 NS1 Nuclease Domain. <i>Biochemistry</i> , 2016, 55, 6577-6593. | 2.5 | 23 |
| 16 | Structure and specificity of FEN&I from <i>Methanopyrus kandleri</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 188-194. | 2.6 | 0 |
| 17 | Probing the Run-On Oligomer of Activated SgrAI Bound to DNA. <i>PLoS ONE</i> , 2015, 10, e0124783. | 2.5 | 12 |
| 18 | Allosteric Regulation of DNA Cleavage and Sequence-Specificity through Run-On Oligomerization. <i>Structure</i> , 2013, 21, 1848-1858. | 3.3 | 23 |

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|----|---|------|-----------|
| 19 | Structural Analysis of Activated SgrAI-DNA Oligomers Using Ion Mobility Mass Spectrometry. <i>Biochemistry</i> , 2013, 52, 4373-4381. | 2.5 | 20 |
| 20 | Activation by Oligomerization of an Allosteric Sequence Specific Endonuclease. <i>FASEB Journal</i> , 2012, 26, 1b91. | 0.5 | 0 |
| 21 | New clues in the allosteric activation of DNA cleavage by SgrAI: structures of SgrAI bound to cleaved primary-site DNA and uncleaved secondary-site DNA. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 67-74. | 2.5 | 14 |
| 22 | Domain Swapping in Allosteric Modulation of DNA Specificity. <i>PLoS Biology</i> , 2010, 8, e1000554. | 5.6 | 17 |
| 23 | Activation of DNA Cleavage by Oligomerization of DNA-Bound SgrAI. <i>Biochemistry</i> , 2010, 49, 8818-8830. | 2.5 | 20 |
| 24 | Crystallization of Zinc Finger Proteins Bound to DNA. <i>Methods in Molecular Biology</i> , 2010, 649, 457-477. | 0.9 | 1 |
| 25 | Novel Allosteric Properties Exhibited by SgrAI, a Restriction Endonuclease Native to <i>Streptomyces griseus</i> . <i>FASEB Journal</i> , 2010, 24, 1b52. | 0.5 | 0 |
| 26 | The restriction enzyme SgrAI: structure solution via combination of poor MIRAS and MR phases. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009, 65, 393-398. | 2.5 | 0 |
| 27 | Early Interrogation and Recognition of DNA Sequence by Indirect Readout. <i>Structure</i> , 2008, 16, 1828-1837. | 3.3 | 21 |
| 28 | DNA Distortion and Specificity in a Sequence-Specific Endonuclease. <i>Journal of Molecular Biology</i> , 2008, 383, 186-204. | 4.2 | 11 |
| 29 | The structure of SgrAI bound to DNA; recognition of an 8 base pair target. <i>Nucleic Acids Research</i> , 2008, 36, 5405-5416. | 14.5 | 33 |
| 30 | Chapter 13. DNA Nucleases. <i>RSC Biomolecular Sciences</i> , 2008, , 333-366. | 0.4 | 10 |
| 31 | Structure of Aart, a Designed Six-finger Zinc Finger Peptide, Bound to DNA. <i>Journal of Molecular Biology</i> , 2006, 363, 405-421. | 4.2 | 87 |
| 32 | Alteration of Sequence Specificity of the Type II Restriction Endonuclease HincII through an Indirect Readout Mechanism. <i>Journal of Biological Chemistry</i> , 2006, 281, 23852-23869. | 3.4 | 26 |
| 33 | Crystallization and preliminary X-ray crystallographic analysis of Aart, a designed six-finger zinc-finger peptide, bound to DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 573-576. | 0.7 | 3 |
| 34 | DNA-induced Conformational Changes in Type II Restriction Endonucleases: The Structure of Unliganded HincII. <i>Journal of Molecular Biology</i> , 2005, 351, 76-88. | 4.2 | 3 |
| 35 | Ca ²⁺ Binding in the Active Site of HincII: Implications for the Catalytic Mechanism. <i>Biochemistry</i> , 2004, 43, 13256-13270. | 2.5 | 26 |
| 36 | DNA Cleavage by EcoRV Endonuclease: Two Metal Ions in Three Metal Ion Binding Sites. <i>Biochemistry</i> , 2004, 43, 6841-6857. | 2.5 | 84 |

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|----|--|------|-----------|
| 37 | Mechanistic Insights from the Structures of HincII Bound to Cognate DNA Cleaved from Addition of Mg ²⁺ and Mn ²⁺ . <i>Journal of Molecular Biology</i> , 2004, 343, 833-849. | 4.2 | 18 |
| 38 | Electrostatic Contributions to Site Specific DNA Cleavage by EcoRV Endonuclease. <i>Biochemistry</i> , 2002, 41, 10754-10763. | 2.5 | 27 |
| 39 | Sequence selectivity and degeneracy of a restriction endonuclease mediated by DNA intercalation. <i>Nature Structural Biology</i> , 2002, 9, 42-47. | 9.7 | 61 |
| 40 | Catalytic efficiency and sequence selectivity of a restriction endonuclease modulated by a distal manganese ion binding site. <i>Journal of Molecular Biology</i> , 2001, 306, 851-861. | 4.2 | 21 |
| 41 | Making the most of metal ions. , 2001, 8, 290-293. | | 42 |
| 42 | Crystallographic snapshots along a protein-induced DNA-bending pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5729-5734. | 7.1 | 45 |
| 43 | Inhibition of EcoRV Endonuclease by Deoxyribo-3'-S-phosphorothiolates: A High-Resolution X-ray Crystallographic Study. <i>Journal of the American Chemical Society</i> , 2000, 122, 3314-3324. | 13.7 | 36 |
| 44 | Crystallization and preliminary diffraction analysis of the HincII restriction endonuclease-DNA complex. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1943-1945. | 2.5 | 5 |
| 45 | Divalent Metal Dependence of Site-Specific DNA Binding by EcoRV Endonuclease. <i>Biochemistry</i> , 1999, 38, 8430-8439. | 2.5 | 67 |
| 46 | Cation binding to the integrin CD11b I domain and activation model assessment. <i>Structure</i> , 1998, 6, 923-935. | 3.3 | 71 |
| 47 | Role of protein-induced bending in the specificity of DNA recognition: crystal structure of EcoRV endonuclease complexed with d(AAAGAT) + d(ATCTT) 1 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 277, 779-787. | 4.2 | 46 |
| 48 | Metal ion-mediated substrate-assisted catalysis in type II restriction endonucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 13489-13494. | 7.1 | 106 |
| 49 | Recognition of Flanking DNA Sequences by EcoRV Endonuclease Involves Alternative Patterns of Water-mediated Contacts. <i>Journal of Biological Chemistry</i> , 1998, 273, 21721-21729. | 3.4 | 31 |
| 50 | Escherichia coli lac repressor- lac operator interaction and the influence of allosteric effectors 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1997, 265, 1-7. | 4.2 | 21 |
| 51 | The Structure of an RNA/DNA Hybrid: A Substrate of the Ribonuclease Activity of HIV-1 Reverse Transcriptase. <i>Journal of Molecular Biology</i> , 1996, 264, 521-533. | 4.2 | 91 |
| 52 | Crystal Structure of the Lactose Operon Repressor and Its Complexes with DNA and Inducer. <i>Science</i> , 1996, 271, 1247-1254. | 12.6 | 755 |
| 53 | Calculation of the free energy of association for protein complexes. <i>Protein Science</i> , 1992, 1, 169-181. | 7.6 | 305 |