

Luis G Briebe

List of Publications by Year in descending order

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58
papers

1,096
citations

471509

17
h-index

454955

30
g-index

59
all docs

59
docs citations

59
times ranked

1118
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for the dual coding potential of 8-oxoguanosine by a high-fidelity DNA polymerase. EMBO Journal, 2004, 23, 3452-3461.	7.8	200
2	Novel transcriptome assembly and improved annotation of the whiteleg shrimp (<i>Litopenaeus</i>) Tj ETQq0 0 0 rgBT /Oygrlock 10 Tf 50 702	3.3	89
3	Characterization of structural features important for T7 RNAP elongation complex stability reveals competing complex conformations and a role for the non-template strand in RNA displacement. Journal of Molecular Biology, 1999, 290, 411-431.	4.2	56
4	Roles of Histidine 784 and Tyrosine 639 in Ribose Discrimination by T7 RNA Polymerase. Biochemistry, 2000, 39, 919-923.	2.5	39
5	A Lysine Residue in the Fingers Subdomain of T7 DNA Polymerase Modulates the Miscoding Potential of 8-Oxo-7,8-Dihydroguanosine. Structure, 2005, 13, 1653-1659.	3.3	37
6	The T7 RNA Polymerase Intercalating Hairpin Is Important for Promoter Opening during Initiation but Not for RNA Displacement or Transcription Bubble Stability during Elongation. Biochemistry, 2001, 40, 3882-3890.	2.5	35
7	Plant organellar DNA polymerases repair double-stranded breaks by microhomology-mediated end-joining. Nucleic Acids Research, 2019, 47, 3028-3044.	14.5	35
8	Plant organellar DNA polymerases are replicative and translesion DNA synthesis polymerases. Nucleic Acids Research, 2017, 45, 10751-10763.	14.5	34
9	The Glycolytic Enzyme Triosephosphate Isomerase of <i>Trichomonas vaginalis</i> Is a Surface-Associated Protein Induced by Glucose That Functions as a Laminin- and Fibronectin-Binding Protein. Infection and Immunity, 2016, 84, 2878-2894.	2.2	33
10	Scanning Mutagenesis Reveals Roles for Helix N of the Bacteriophage T7 RNA Polymerase Thumb Subdomain in Transcription Complex Stability, Pausing, and Termination. Journal of Biological Chemistry, 2001, 276, 10306-10313.	3.4	23
11	Structural Basis for Redox Regulation of Cytoplasmic and Chloroplastic Triosephosphate Isomerases from <i>Arabidopsis thaliana</i> . Frontiers in Plant Science, 2016, 7, 1817.	3.6	23
12	Discontinuous movement and conformational change during pausing and termination by T7 RNA polymerase. EMBO Journal, 2003, 22, 6483-6493.	7.8	22
13	Structure and biochemical characterization of proliferating cellular nuclear antigen from a parasitic protozoan. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 497-505.	2.5	22
14	Crystal structure of shrimp arginine kinase in binary complex with arginine—a molecular view of the phosphagen precursor binding to the enzyme. Journal of Bioenergetics and Biomembranes, 2013, 45, 511-518.	2.3	22
15	Plant organellar DNA polymerases paralogs exhibit dissimilar nucleotide incorporation fidelity. FEBS Journal, 2018, 285, 4005-4018.	4.7	22
16	Identification of a unique insertion in plant organellar DNA polymerases responsible for 5′-dRP lyase and strand-displacement activities: Implications for Base Excision Repair. DNA Repair, 2018, 65, 1-10.	2.8	21
17	Role of T7 RNA Polymerase His784 in Start Site Selection and Initial Transcription. Biochemistry, 2002, 41, 5144-5149.	2.5	18
18	Cellular and biochemical characterization of two closely related triosephosphate isomerases from <i>Trichomonas vaginalis</i> . Parasitology, 2012, 139, 1729-1738.	1.5	18

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19	A Transposon-Derived DNA Polymerase from <i>Entamoeba histolytica</i> Displays Intrinsic Strand Displacement, Processivity and Lesion Bypass. <i>PLoS ONE</i> , 2012, 7, e49964.	2.5	18
20	Substrate-Induced Dimerization of Engineered Monomeric Variants of Triosephosphate Isomerase from <i>Trichomonas vaginalis</i> . <i>PLoS ONE</i> , 2015, 10, e0141747.	2.5	18
21	Dispensability of the [4Fe-4S] cluster in novel homologues of adenine glycosylase MutY. <i>FEBS Journal</i> , 2016, 283, 521-540.	4.7	18
22	Structural insights from a novel invertebrate triosephosphate isomerase from <i>Litopenaeus vannamei</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1696-1706.	2.3	18
23	Plant organellar DNA primase-helicase synthesizes RNA primers for organellar DNA polymerases using a unique recognition sequence. <i>Nucleic Acids Research</i> , 2017, 45, 10764-10774.	14.5	18
24	<i>Arabidopsis thaliana</i> organelles mimic the T7 phage DNA replisome with specific interactions between Twinkle protein and DNA polymerases Pol1A and Pol1B. <i>BMC Plant Biology</i> , 2019, 19, 241.	3.6	17
25	Yeast mitochondrial RNA polymerase primes mitochondrial DNA polymerase at origins of replication and promoter sequences. <i>Mitochondrion</i> , 2015, 24, 22-31.	3.4	16
26	Developing a new drug against trichomoniasis, new inhibitory compounds of the protein triosephosphate isomerase. <i>Parasitology International</i> , 2020, 76, 102086.	1.3	16
27	Crystal structure of the cysteine protease inhibitor 2 from <i>Entamoeba histolytica</i> : Functional convergence of a common protein fold. <i>Gene</i> , 2011, 471, 45-52.	2.2	15
28	Structural and thermodynamic folding characterization of triosephosphate isomerases from <i>Trichomonas vaginalis</i> reveals the role of destabilizing mutations following gene duplication. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 22-33.	2.6	15
29	Proliferating cell nuclear antigen restores the enzymatic activity of a DNA ligase I deficient in DNA binding. <i>FEBS Open Bio</i> , 2017, 7, 659-674.	2.3	15
30	A Nuclear Family A DNA Polymerase from <i>Entamoeba histolytica</i> Bypasses Thymine Glycol. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e786.	3.0	14
31	Structure-Function Analysis Reveals the Singularity of Plant Mitochondrial DNA Replication Components: A Mosaic and Redundant System. <i>Plants</i> , 2019, 8, 533.	3.5	11
32	Crystal Structure of the Shrimp Proliferating Cell Nuclear Antigen: Structural Complementarity with WSSV DNA Polymerase PIP-Box. <i>PLoS ONE</i> , 2014, 9, e94369.	2.5	11
33	Crystallization and X-ray diffraction studies of arginine kinase from the white Pacific shrimp <i>Litopenaeus vannamei</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 783-785.	0.7	10
34	The thumb subdomain of yeast mitochondrial RNA polymerase is involved in processivity, transcript fidelity and mitochondrial transcription factor binding. <i>RNA Biology</i> , 2015, 12, 514-524.	3.1	10
35	Evolution of Base Excision Repair in <i>Entamoeba histolytica</i> is shaped by gene loss, gene duplication, and lateral gene transfer. <i>DNA Repair</i> , 2019, 76, 76-88.	2.8	10
36	Structural basis for the modulation of plant cytosolic triosephosphate isomerase activity by mimicry of redox-based modifications. <i>Plant Journal</i> , 2019, 99, 950-964.	5.7	9

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37	Triosephosphate isomerase as a therapeutic target against trichomoniasis. <i>Molecular and Biochemical Parasitology</i> , 2021, 246, 111413.	1.1	9
38	Conservation of Promoter Melting Mechanisms in Divergent Regions of the Single-Subunit RNA Polymerases. <i>Biochemistry</i> , 2012, 51, 3901-3910.	2.5	8
39	The Sole DNA Ligase in <i>Entamoeba histolytica</i> Is a High-Fidelity DNA Ligase Involved in DNA Damage Repair. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 214.	3.9	8
40	A competent catalytic active site is necessary for substrate induced dimer assembly in triosephosphate isomerase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1423-1432.	2.3	7
41	Structure of an open conformation of T7 DNA polymerase reveals novel structural features regulating primer-template stabilization at the polymerization active site. <i>Biochemical Journal</i> , 2021, 478, 2665-2679.	3.7	7
42	Molecular modeling and expression of the <i>Litopenaeus vannamei</i> proliferating cell nuclear antigen (PCNA) after white spot syndrome virus shrimp infection. <i>Results in Immunology</i> , 2011, 1, 24-30.	2.2	6
43	De novo assembly and transcriptome characterization of the freshwater prawn <i>Palaemonetes argentinus</i> : Implications for a detoxification response. <i>Marine Genomics</i> , 2018, 37, 74-81.	1.1	6
44	Crystal structures of Triosephosphate Isomerases from <i>Taenia solium</i> and <i>Schistosoma mansoni</i> provide insights for vaccine rationale and drug design against helminth parasites. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0007815.	3.0	6
45	Structural Basis for the Limited Response to Oxidative and Thiol-Conjugating Agents by Triosephosphate Isomerase From the Photosynthetic Bacteria <i>Synechocystis</i> . <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 103.	3.5	5
46	Amino and carboxy-terminal extensions of yeast mitochondrial DNA polymerase assemble both the polymerization and exonuclease active sites. <i>Mitochondrion</i> , 2019, 49, 166-177.	3.4	5
47	Plant Organellar DNA Polymerases Evolved Multifunctionality through the Acquisition of Novel Amino Acid Insertions. <i>Genes</i> , 2020, 11, 1370.	2.4	4
48	<i>Arabidopsis thaliana</i> PrimPol is a primase and lesion bypass DNA polymerase with the biochemical characteristics to cope with DNA damage in the nucleus, mitochondria, and chloroplast. <i>Scientific Reports</i> , 2021, 11, 20582.	3.3	4
49	Modeling of pathogenic variants of mitochondrial DNA polymerase: insight into the replication defects and implication for human disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129608.	2.4	3
50	Cysteine Proteases Inhibitors with Immunoglobulin-Like Fold in Protozoan Parasites and their Role in Pathogenesis. <i>Current Protein and Peptide Science</i> , 2017, 18, 1035-1042.	1.4	3
51	A novel viral thymidylate kinase with dual kinase activity. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 431-440.	2.3	2
52	Self-Association of Enolase from <i>Trichomonas vaginalis</i> . Monomers, Dimers, and Octamers Coexist in Solution. <i>ACS Omega</i> , 2018, 3, 17871-17880.	3.5	2
53	Mimicking a p53-MDM2 interaction based on a stable immunoglobulin-like domain scaffold. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 802-812.	2.6	1
54	Solution structure of the inhibitor of cysteine proteases 1 from <i>Entamoeba histolytica</i> reveals a possible auto regulatory mechanism. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140512.	2.3	1

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55	Plant organellar DNA polymerases bypass thymine glycol using two conserved lysine residues. <i>Biochemical Journal</i> , 2020, 477, 1049-1059.	3.7	1
56	Crystallization and X-ray diffraction studies of crustacean proliferating cell nuclear antigen. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1367-1370.	0.7	0
57	Cover Image, Volume 86, Issue 7. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, C1-C1.	2.6	0
58	Crystallographic Studies of Triosephosphate Isomerase from <i>Schistosoma mansoni</i> . <i>Methods in Molecular Biology</i> , 2020, 2151, 211-218.	0.9	0