

Klaus Reuter

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,882
citations

516710

16
h-index

501196

28
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29
all docs

29
docs citations

29
times ranked

1446
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and Biochemical Investigation of the Heterodimeric Murine tRNA-Guanine Transglycosylase. ACS Chemical Biology, 2022, 17, 2229-2247.	3.4	7
2	Sensitive protein alignments at tree-of-life scale using DIAMOND. Nature Methods, 2021, 18, 366-368.	19.0	1,195
3	Targeting a Cryptic Pocket in a Proteinâ€“Protein Contact by Disulfide-Induced Rupture of a Homodimeric Interface. ACS Chemical Biology, 2021, 16, 1090-1098.	3.4	2
4	Unraveling a Ligandâ€“Induced Twist of a Homodimeric Enzyme by Pulsed Electronâ€“Electron Double Resonance. Angewandte Chemie - International Edition, 2021, 60, 23419-23426.	13.8	10
5	EntschlÃ¼sselung der ligandeninduzierten Verdrehung eines homodimeren Enzyms mit Hilfe der gepulsten Elektronâ€“Elektronâ€“Doppelresonanzâ€“Spektroskopie. Angewandte Chemie, 2021, 133, 23607.	2.0	1
6	Fragment Screening Hit Draws Attention to a Novel Transient Pocket Adjacent to the Recognition Site of the tRNA-Modifying Enzyme TGT. Journal of Medicinal Chemistry, 2020, 63, 6802-6820.	6.4	4
7	Evaluation of performance portability frameworks for the implementation of a particleâ€“inâ€“cell code. Concurrency Computation Practice and Experience, 2020, 32, e5640.	2.2	11
8	Austausch der ProteinkontaktflÃ¤chen in der homodimeren tRNAâ€“Guaninâ€“Transglycosylase: ein Weg der funktionellen Regulation. Angewandte Chemie, 2018, 130, 10242-10247.	2.0	2
9	Homodimer Architecture of QTRT2, the Noncatalytic Subunit of the Eukaryotic tRNA-Guanine Transglycosylase. Biochemistry, 2018, 57, 3953-3965.	2.5	8
10	Swapping Interface Contacts in the Homodimeric tRNAâ€“Guanine Transglycosylase: An Option for Functional Regulation. Angewandte Chemie - International Edition, 2018, 57, 10085-10090.	13.8	10
11	Soaking suggests â€œalternative factsâ€œ: Only co-crystallization discloses major ligand-induced interface rearrangements of a homodimeric tRNA-binding protein indicating a novel mode-of-inhibition. PLoS ONE, 2017, 12, e0175723.	2.5	30
12	What Glues a Homodimer Together: Systematic Analysis of the Stabilizing Effect of an Aromatic Hot Spot in the Proteinâ€“Protein Interface of the tRNA-Modifying Enzyme Tgt. ACS Chemical Biology, 2015, 10, 1897-1907.	3.4	19
13	Hot-spot analysis to dissect the functional protein-protein interface of a tRNA-modifying enzyme. Proteins: Structure, Function and Bioinformatics, 2014, 82, 2713-2732.	2.6	17
14	High resolution crystal structure of <i>Clostridium propionicum</i> Î²-alanyl-CoA:ammonia lyase, a new member of the â€œhot dog foldâ€œ-protein superfamily. Proteins: Structure, Function and Bioinformatics, 2014, 82, 2041-2053.	2.6	6
15	Launching Spiking Ligands into a Proteinâ€“Protein Interface: A Promising Strategy To Destabilize and Break Interface Formation in a tRNA Modifying Enzyme. ACS Chemical Biology, 2013, 8, 1163-1178.	3.4	24
16	An Integrative Approach Combining Noncovalent Mass Spectrometry, Enzyme Kinetics and X-ray Crystallography to Decipher Tgt Protein-Protein and Protein-RNA Interaction. Journal of Molecular Biology, 2009, 393, 833-847.	4.2	41
17	Crystal structure of Bacillus subtilis S-adenosylmethionine:tRNA ribosyltransferase-isomerase. Biochemical and Biophysical Research Communications, 2006, 351, 695-701.	2.1	16
18	Synthesis, Biological Evaluation, and Crystallographic Studies of Extended Guanine-Based (lin-Benzoguanine) Inhibitors for tRNA-Guanine Transglycosylase (TGT). Helvetica Chimica Acta, 2006, 89, 573-597.	1.6	31

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19	Mechanism and Substrate Specificity of tRNA-Guanine Transglycosylases (TGTs): tRNA-Modifying Enzymes from the Three Different Kingdoms of Life Share a Common Catalytic Mechanism. <i>ChemBioChem</i> , 2005, 6, 1926-1939.	2.6	68
20	From Hit to Lead: De Novo Design Based on Virtual Screening Hits of Inhibitors of tRNA-Guanine Transglycosylase, a Putative Target of Shigellosis Therapy. <i>Helvetica Chimica Acta</i> , 2003, 86, 1435-1452.	1.6	16
21	Flexible Adaptations in the Structure of the tRNA-Modifying Enzyme tRNA-Guanine Transglycosylase and Their Implications for Substrate Selectivity, Reaction Mechanism and Structure-Based Drug Design. <i>ChemBioChem</i> , 2003, 4, 1066-1077.	2.6	30
22	An Essential Role for Aspartate 264 in Catalysis by tRNA-Guanine Transglycosylase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 42369-42376.	3.4	16
23	Crystal Structure of 1-Deoxy-d-xylulose-5-phosphate Reductoisomerase, a Crucial Enzyme in the Non-mevalonate Pathway of Isoprenoid Biosynthesis. <i>Journal of Biological Chemistry</i> , 2002, 277, 5378-5384.	3.4	109
24	The Crystal Structure of 3 β -Hydroxysteroid Dehydrogenase/Carbonyl Reductase from <i>Comamonas testosteroni</i> Shows a Novel Oligomerization Pattern within the Short Chain Dehydrogenase/Reductase Family. <i>Journal of Biological Chemistry</i> , 2000, 275, 41333-41339.	3.4	93
25	Crystal Structure of the Human U4/U6 Small Nuclear Ribonucleoprotein Particle-specific SnuCyp-20, a Nuclear Cyclophilin. <i>Journal of Biological Chemistry</i> , 2000, 275, 7439-7442.	3.4	23
26	Mutagenesis and crystallographic studies of <i>Zymomonas mobilis</i> tRNA-guanine transglycosylase to elucidate the role of serine 103 for enzymatic activity. <i>FEBS Letters</i> , 1999, 454, 142-146.	2.8	11
27	Mutagenesis and Crystallographic Studies of <i>Zymomonas mobilis</i> tRNA-Guanine Transglycosylase Reveal Aspartate 102 as the Active Site Nucleophile. <i>Biochemistry</i> , 1996, 35, 15734-15739.	2.5	52
28	Serine 90 Is Required for Enzymic Activity by tRNA-Guanine Transglycosylase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1994, 33, 7041-7046.	2.5	29