Klaus Reuter

List of Publications by Year
in descending order

28	1,882	516710 16	501196 28
papers	citations	h-index	g-index

29	29	29	1446
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sensitive protein alignments at tree-of-life scale using DIAMOND. Nature Methods, 2021, 18, 366-368.	19.0	1,195
2	Crystal Structure of 1-Deoxy-d-xylulose-5-phosphate Reductoisomerase, a Crucial Enzyme in the Non-mevalonate Pathway of Isoprenoid Biosynthesis. Journal of Biological Chemistry, 2002, 277, 5378-5384.	3.4	109
3	The Crystal Structure of 3Î±-Hydroxysteroid Dehydrogenase/Carbonyl Reductase from Comamonas testosteroni Shows a Novel Oligomerization Pattern within the Short Chain Dehydrogenase/Reductase Family. Journal of Biological Chemistry, 2000, 275, 41333-41339.	3.4	93
4	Mechanism and Substrate Specificity of tRNA-Guanine Transglycosylases (TGTs): tRNA-Modifying Enzymes from the Three Different Kingdoms of Life Share a Common Catalytic Mechanism. ChemBioChem, 2005, 6, 1926-1939.	2.6	68
5	Mutagenesis and Crystallographic Studies ofZymomonas mobilistRNA-Guanine Transglycosylase Reveal Aspartate 102 as the Active Site Nucleophileâ€,â€¡. Biochemistry, 1996, 35, 15734-15739.	2.5	52
6	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
7	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
8	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. ChemBioChem, 2003, 4, 1066-1077.	2.6	30
9	Soaking suggests â€œalternative factsâ€• 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
10	Serine 90 Is Required for Enzymic Activity by tRNA-Guanine Transglycosylase from Escherichia coli. Biochemistry, 1994, 33, 7041-7046.	2.5	29
11	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
12	Crystal Structure of the Human U4/U6 Small Nuclear Ribonucleoprotein Particle-specific SnuCyp-20, a Nuclear Cyclophilin. Journal of Biological Chemistry, 2000, 275, 7439-7442.	3.4	23
13	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
14	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
15	From Hit to Lead: De Novo Design Based on Virtual Screening Hits of Inhibitors of tRNA-Guanine Transglycosylase, a Putative Target of Shigellosis Therapy. Helvetica Chimica Acta, 2003, 86, 1435-1452.	1.6	16
16	An Essential Role for Aspartate 264 in Catalysis by tRNA-Guanine Transglycosylase from Escherichia coli. Journal of Biological Chemistry, 2003, 278, 42369-42376.	3.4	16
17	Crystal structure of Bacillus subtilis S-adenosylmethionine:tRNA ribosyltransferase-isomerase. Biochemical and Biophysical Research Communications, 2006, 351, 695-701.	2.1	16
18	Mutagenesis and crystallographic studies ofZymomonas mobilistRNA-guanine transglycosylase to elucidate the role of serine 103 for enzymatic activity. FEBS Letters, 1999, 454, 142-146.	2.8	11

#	Article	IF	Citations
19	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
20	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
21	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
22	Homodimer Architecture of QTRT2, the Noncatalytic Subunit of the Eukaryotic tRNA-Guanine Transglycosylase. Biochemistry, 2018, 57, 3953-3965.	2.5	8
23	Structural and Biochemical Investigation of the Heterodimeric Murine tRNA-Guanine Transglycosylase. ACS Chemical Biology, 2022, 17, 2229-2247.	3.4	7
24	High resolution crystal structure ofClostridium propionicumÎ²-alanyl-CoA:ammonia lyase, a new member of the â€œhot dog foldâ€protein superfamily. Proteins: Structure, Function and Bioinformatics, 2014, 82, 2041-2053.	2.6	6
25	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
26	Austausch der ProteinkontaktflÃchen in der homodimeren tRNAâ€Guaninâ€Transglycosylase: ein Weg der funktionellen Regulation. Angewandte Chemie, 2018, 130, 10242-10247.	2.0	2
27	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
28	EntschlÃ¼sselung der ligandeninduzierten Verdrehung eines homodimeren Enzyms mit Hilfe der gepulsten Elektronâ€Elektronâ€Doppelresonanzâ€Spektroskopie. Angewandte Chemie, 2021, 133, 23607.	2.0	1