

Kurt L Krause

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72
papers

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27
h-index

48
g-index

78
ext. papers

2,633
ext. citations

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L-index

#	Paper	IF	Citations
72	2.5 Å structure of aspartate carbamoyltransferase complexed with the bisubstrate analog N-(phosphonacetyl)-L-aspartate. <i>Journal of Molecular Biology</i> , 1987 , 193, 527-53	6.5	192
71	Determinants of enzyme thermostability observed in the molecular structure of <i>Thermus aquaticus</i> D-glyceraldehyde-3-phosphate dehydrogenase at 2.5 Å Resolution. <i>Biochemistry</i> , 1996 , 35, 2597-2609	7.2	190
70	Emergence of macrolide resistance during treatment of pneumococcal pneumonia. <i>New England Journal of Medicine</i> , 2002 , 346, 630-1	59.2	170
69	Structure at 2.9-Å resolution of aspartate carbamoyltransferase complexed with the bisubstrate analogue N-(phosphonacetyl)-L-aspartate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 1643-7	11.5	99
68	Severe diabetes associated with protease inhibitor therapy. <i>Annals of Internal Medicine</i> , 1997 , 127, 947	8	95
67	Chemical Generation of C60 ²⁻ and Electron Transfer Mechanism for the Reactions with Alkyl Bromides. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16327-16335		93
66	Flavin reductase P: structure of a dimeric enzyme that reduces flavin. <i>Biochemistry</i> , 1996 , 35, 13531-9	3.2	86
65	The active site of <i>Serratia</i> endonuclease contains a conserved magnesium-water cluster. <i>Journal of Molecular Biology</i> , 1999 , 288, 975-87	6.5	82
64	Analysis of the mechanism of the <i>Serratia</i> nuclease using site-directed mutagenesis. <i>Nucleic Acids Research</i> , 1996 , 24, 2632-9	20.1	81
63	2.1 Å structure of <i>Serratia</i> endonuclease suggests a mechanism for binding to double-stranded DNA. <i>Nature Structural and Molecular Biology</i> , 1994 , 1, 461-8	17.6	77
62	Characterization of the alanine racemases from two mycobacteria. <i>FEMS Microbiology Letters</i> , 2001 , 196, 93-8	2.9	75
61	The 1.9 Å crystal structure of alanine racemase from <i>Mycobacterium tuberculosis</i> contains a conserved entryway into the active site. <i>Biochemistry</i> , 2005 , 44, 1471-81	3.2	72
60	Spacer capture and integration by a type I-F Cas1-Cas2-3 CRISPR adaptation complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5122-E5128	11.5	71
59	The catalytic mechanism of <i>Escherichia coli</i> aspartate carbamoyltransferase: a molecular modelling study. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 142, 893-7	3.4	60
58	Experience with commercial area detectors: a buyer's perspective. <i>Journal of Applied Crystallography</i> , 1992 , 25, 146-154	3.8	56
57	Characterization of the alanine racemases from <i>Pseudomonas aeruginosa</i> PAO1. <i>Current Microbiology</i> , 2000 , 41, 290-4	2.4	54
56	A similar active site for non-specific and specific endonucleases. <i>Nature Structural Biology</i> , 1999 , 6, 112-3		53

55	Identification of the Serratia endonuclease dimer: structural basis and implications for catalysis. <i>Protein Science</i> , 1996 , 5, 24-33	6.3	50
54	The alanine racemase of <i>Mycobacterium smegmatis</i> is essential for growth in the absence of D-alanine. <i>Journal of Bacteriology</i> , 2007 , 189, 8381-6	3.5	43
53	Unusual folded conformation of nicotinamide adenine dinucleotide bound to flavin reductase P. <i>Protein Science</i> , 1999 , 8, 1725-32	6.3	42
52	Crystal structure at 1.45 Å resolution of alanine racemase from a pathogenic bacterium, <i>Pseudomonas aeruginosa</i> , contains both internal and external aldimine forms. <i>Biochemistry</i> , 2003 , 42, 14752-61	3.2	40
51	New classes of alanine racemase inhibitors identified by high-throughput screening show antimicrobial activity against <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2011 , 6, e20374	3.7	35
50	Resolving the cofactor-binding site in the proline biosynthetic enzyme human pyrroline-5-carboxylate reductase 1. <i>Journal of Biological Chemistry</i> , 2017 , 292, 7233-7243	5.4	30
49	Biochemical and structural characterization of alanine racemase from <i>Bacillus anthracis</i> (Ames). <i>BMC Structural Biology</i> , 2009 , 9, 53	2.7	30
48	Cleavage experiments with deoxythymidine 3′,5′-bis-(p-nitrophenyl phosphate) suggest that the homing endonuclease I-PpoI follows the same mechanism of phosphodiester bond hydrolysis as the non-specific <i>Serratia</i> nuclease. <i>FEBS Letters</i> , 1999 , 443, 209-14	3.8	30
47	The binding of N-(phosphonacetyl)-L-aspartate to aspartate carbamoyltransferase of <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 1986 , 136, 822-6	3.4	30
46	Reactivity of reduced [2Fe-2S] ferredoxins parallels host susceptibility to nitroimidazoles. <i>Antimicrobial Agents and Chemotherapy</i> , 2003 , 47, 302-8	5.9	27
45	The crystal structure of <i>Trichomonas vaginalis</i> ferredoxin provides insight into metronidazole activation. <i>Journal of Molecular Biology</i> , 2002 , 318, 503-18	6.5	25
44	Inherent structural disorder and dimerisation of murine norovirus NS1-2 protein. <i>PLoS ONE</i> , 2012 , 7, e30534	3.7	24
43	The crystal structure of alanine racemase from <i>Streptococcus pneumoniae</i> , a target for structure-based drug design. <i>BMC Microbiology</i> , 2011 , 11, 116	4.5	24
42	Unusual manifestations of disseminated Histoplasmosis in patients responding to antiretroviral therapy. <i>American Journal of Medicine</i> , 2005 , 118, 1038-41	2.4	24
41	N(2)-substituted D,L-cycloserine derivatives: synthesis and evaluation as alanine racemase inhibitors. <i>Journal of Antibiotics</i> , 2003 , 56, 160-8	3.7	22
40	Crystallization and preliminary crystallographic analysis of a novel nuclease from <i>Serratia marcescens</i> . <i>Journal of Molecular Biology</i> , 1991 , 222, 27-30	6.5	20
39	Molecular dynamics simulations and rigid body (TLS) analysis of aspartate carbamoyltransferase: evidence for an uncoupled R state. <i>Protein Science</i> , 1993 , 2, 927-35	6.3	19
38	Smartphone Microscopy of Parasite Eggs Accumulated into a Single Field of View. <i>American Journal of Tropical Medicine and Hygiene</i> , 2016 , 94, 227-230	3.2	19

37	New Zealand glowworm (<i>Arachnocampa luminosa</i>) bioluminescence is produced by a firefly-like luciferase but an entirely new luciferin. <i>Scientific Reports</i> , 2018 , 8, 3278	4.9	18
36	Structural features and kinetic characterization of alanine racemase from <i>Staphylococcus aureus</i> (Mu50). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 82-92		18
35	Purification and preliminary crystallization of alanine racemase from <i>Streptococcus pneumoniae</i> . <i>BMC Microbiology</i> , 2007 , 7, 40	4.5	18
34	Role of Alanine Racemase Mutations in <i>Mycobacterium tuberculosis</i> d-Cycloserine Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	16
33	Structure of bacterial luciferase beta 2 homodimer: implications for flavin binding. <i>Biochemistry</i> , 1997 , 36, 665-72	3.2	15
32	Prevalence of penicillin-resistant pneumococci in Houston, Texas. <i>American Journal of Clinical Pathology</i> , 1982 , 77, 210-3	1.9	15
31	Comparative RNA seq analysis of the New Zealand glowworm <i>Arachnocampa luminosa</i> reveals bioluminescence-related genes. <i>BMC Genomics</i> , 2015 , 16, 825	4.5	14
30	Exploring the structure of glutamate racemase from <i>Mycobacterium tuberculosis</i> as a template for anti-mycobacterial drug discovery. <i>Biochemical Journal</i> , 2016 , 473, 1267-80	3.8	14
29	Structures of Orf Virus Chemokine Binding Protein in Complex with Host Chemokines Reveal Clues to Broad Binding Specificity. <i>Structure</i> , 2015 , 23, 1199-213	5.2	13
28	Investigation of the essentiality of glutamate racemase in <i>Mycobacterium smegmatis</i> . <i>Journal of Bacteriology</i> , 2014 , 196, 4239-44	3.5	12
27	Solvent participation in <i>Serratia marcescens</i> endonuclease complexes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 62, 982-95	4.2	11
26	Overexpression of a newly identified d-amino acid transaminase in <i>Mycobacterium smegmatis</i> complements glutamate racemase deletion. <i>Molecular Microbiology</i> , 2018 , 107, 198-213	4.1	11
25	Simulation of electrostatic and hydrodynamic properties of <i>Serratia</i> endonuclease. <i>Biopolymers</i> , 1997 , 41, 443-50	2.2	9
24	A Broad-Spectrum Chemokine-Binding Protein of Bovine Papular Stomatitis Virus Inhibits Neutrophil and Monocyte Infiltration in Inflammatory and Wound Models of Mouse Skin. <i>PLoS ONE</i> , 2016 , 11, e0168007	3.7	8
23	Deriving Immune Modulating Drugs from Viruses-A New Class of Biologics. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	8
22	Structural plasticity and in vivo activity of Cas1 from the type I-F CRISPR-Cas system. <i>Biochemical Journal</i> , 2016 , 473, 1063-72	3.8	7
21	Advantage of being a dimer for <i>Serratia marcescens</i> endonuclease. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 511-21	3.4	6
20	Crystallization and preliminary crystallographic analysis of NADPH:FMN oxidoreductase from <i>Vibrio harveyi</i> . <i>Journal of Molecular Biology</i> , 1994 , 241, 283-7	6.5	6

19	The Immune Response to SARS-CoV-2 and Variants of Concern. <i>Viruses</i> , 2021 , 13,	6.2	6
18	Differential Inhibition of APOBEC3 DNA-Mutator Isozymes by Fluoro- and Non-Fluoro-Substituted 2VDeoxyzebularine Embedded in Single-Stranded DNA. <i>ChemBioChem</i> , 2020 , 21, 1028-1035	3.8	5
17	Cryo-electron microscopy structure of the 70S ribosome from <i>Enterococcus faecalis</i> . <i>Scientific Reports</i> , 2020 , 10, 16301	4.9	5
16	Luciferases and Light-emitting Accessory Proteins: <i>Structural Biology</i> 2014 ,		4
15	The structure of alanine racemase from <i>Acinetobacter baumannii</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014 , 70, 1199-205	1.1	4
14	Molecular dynamics simulations of <i>Trichomonas vaginalis</i> ferredoxin show a loop-cap transition. <i>Biophysical Journal</i> , 2007 , 92, 3337-45	2.9	4
13	Preliminary crystallographic analysis of glyceraldehyde 3-phosphate dehydrogenase from the extreme thermophile <i>Thermus aquaticus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1994 , 50, 744-8		4
12	Crystallization and preliminary X-ray analysis of the chemokine-binding protein from orf virus (Poxviridae). <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010 , 66, 819-23		3
11	Effects of dimerization of <i>Serratia marcescens</i> endonuclease on water dynamics. <i>Biopolymers</i> , 2007 , 85, 241-52	2.2	3
10	Characterization and crystallization of active domains of a novel luciferase from a marine dinoflagellate. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 761-4		3
9	The post-lockdown period should be used to acquire effective therapies for future resurgence in SARS-Cov-2 infections. <i>New Zealand Medical Journal</i> , 2020 , 133, 107-111	0.8	3
8	The cryo-EM structure of the bd oxidase from <i>M. tuberculosis</i> reveals a unique structural framework and enables rational drug design to combat TB. <i>Nature Communications</i> , 2021 , 12, 5236	17.4	2
7	Stereochemical π -Facial Selectivity of the Diels-Alder Reaction of Benz[a]aceanthrylene and 1,4-Diphenylbenz[a]aceanthrylene. <i>Journal of Organic Chemistry</i> , 1997 , 62, 9290-9294	4.2	1
6	Reconstitution of CRISPR adaptation in vitro and its detection by PCR. <i>Methods in Enzymology</i> , 2019 , 616, 411-433	1.7	1
5	Detection of D-glutamate production from the dual Function enzyme, 4-amino-4-deoxychorismate Lyase/D-amino Acid Transaminase, in. <i>Bio-protocol</i> , 2019 , 9, e3135	0.9	0
4	An amiloride derivative is active against the FF-ATP synthase and cytochrome bd oxidase of <i>Mycobacterium tuberculosis</i> .. <i>Communications Biology</i> , 2022 , 5, 166	6.7	0
3	Using electrostatics to define the active site of <i>Serratia</i> endonuclease. <i>Methods in Molecular Biology</i> , 2001 , 160, 249-61	1.4	
2	A New Engine for Cleaving Nucleic Acid. <i>ACS Symposium Series</i> , 2002 , 270-293	0.4	

- 1 Synthesis and Biological Evaluation of (-) and (+)-Spiroleucettadine and Analogues. *ChemMedChem*, **2021**, 16, 1308-1315 3·7