Thomas R Schneider

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8,360 88 83 34 h-index g-index citations papers 88 6.03 9,002 10.4 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
83	[16] SHELXL: High-resolution refinement. <i>Methods in Enzymology</i> , 1997 , 319-343	1.7	1940
82	Substructure solution with SHELXD. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 1772-9		1408
81	HKL2MAP: a graphical user interface for macromolecular phasing withSHELXprograms. <i>Journal of Applied Crystallography</i> , 2004 , 37, 843-844	3.8	599
80	Structural basis for the autoinhibition and STI-571 inhibition of c-Kit tyrosine kinase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 31655-63	5.4	470
79	Mechanism of Aurora B activation by INCENP and inhibition by hesperadin. <i>Molecular Cell</i> , 2005 , 18, 379	9 -97 1.6	321
78	Crystal structure of the ubiquitin binding domains of rabex-5 reveals two modes of interaction with ubiquitin. <i>Cell</i> , 2006 , 124, 1183-95	56.2	233
77	Ultrahigh resolution drug design I: details of interactions in human aldose reductase-inhibitor complex at 0.66 A. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 55, 792-804	4.2	232
76	Macromolecular Cryocrystallography. <i>Journal of Applied Crystallography</i> , 1997 , 30, 211-237	3.8	220
75	Crystal structure of the endosomal SNARE complex reveals common structural principles of all SNAREs. <i>Nature Structural Biology</i> , 2002 , 9, 107-11		207
74	Serial crystallography on in vivo grown microcrystals using synchrotron radiation. <i>IUCrJ</i> , 2014 , 1, 87-94	4.7	164
73	Crystal structure of vancomycin. <i>Structure</i> , 1996 , 4, 1509-15	5.2	150
72	Loop closure and intersubunit communication in tryptophan synthase. <i>Biochemistry</i> , 1998 , 37, 5394-406	i 3.2	135
71	X-ray structure determination of a metastable state of carbonmonoxy myoglobin after photodissociation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 7013-6	11.5	131
70	The inhibition mechanism of human 20S proteasomes enables next-generation inhibitor design. <i>Science</i> , 2016 , 353, 594-8	33.3	123
69	A genetic algorithm for the identification of conformationally invariant regions in protein molecules. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 195-208		113
68	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. <i>Science</i> , 2021 , 372, 642-646	33.3	95
67	Evolution of feedback-inhibited beta /alpha barrel isoenzymes by gene duplication and a single mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 862-7	11.5	94

(2002-2008)

66	RAPIDO: a web server for the alignment of protein structures in the presence of conformational changes. <i>Nucleic Acids Research</i> , 2008 , 36, W42-6	20.1	91
65	X-ray snapshots of serine protease catalysis reveal a tetrahedral intermediate. <i>Nature Structural Biology</i> , 2001 , 8, 689-94		89
64	Refinement of triclinic hen egg-white lysozyme at atomic resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998 , 54, 522-46		85
63	P13, the EMBL macromolecular crystallography beamline at the low-emittance PETRA III ring for[high- and low-energy phasing with variable beam focusing. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 323-332	2.4	84
62	Core Mediator structure at 3.4 lextends model of transcription initiation complex. <i>Nature</i> , 2017 , 545, 248-251	50.4	74
61	Objective comparison of protein structures: error-scaled difference distance matrices. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 714-21		74
60	Ultrahigh resolution drug design. II. Atomic resolution structures of human aldose reductase holoenzyme complexed with Fidarestat and Minalrestat: implications for the binding of cyclic imide inhibitors. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 55, 805-13	4.2	66
59	Contribution of the intramolecular disulfide bridge to the folding stability of REIv, the variable domain of a human immunoglobulin kappa light chain. <i>Folding & Design</i> , 1996 , 1, 431-40		59
58	Protein-protein recognition, hydride transfer and proton pumping in the transhydrogenase complex. <i>Structure</i> , 2000 , 8, 809-15	5.2	53
57	Crystal structure of domain A of Thermus flavus 5S rRNA and the contribution of water molecules to its structure. <i>FEBS Letters</i> , 1994 , 351, 159-64	3.8	53
56	Structure of catalase HPII from Escherichia coli at 1.9 A resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , 34, 155-66	4.2	51
55	Liquid application method for time-resolved analyses by serial synchrotron crystallography. <i>Nature Methods</i> , 2019 , 16, 979-982	21.6	41
54	Alignment of protein structures in the presence of domain motions. <i>BMC Bioinformatics</i> , 2008 , 9, 352	3.6	41
53	Terahertz radiation induces non-thermal structural changes associated with FrBlich condensation in a protein crystal. <i>Structural Dynamics</i> , 2015 , 2, 054702	3.2	37
52	Substrate and metal complexes of 3-deoxy-D-arabino-heptulosonate-7-phosphate synthase from Saccharomyces cerevisiae provide new insights into the catalytic mechanism. <i>Journal of Molecular Biology</i> , 2004 , 337, 675-90	6.5	37
51	The structural bases for agonist diversity in an glutamate receptor-like channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 752-760	11.5	37
50	An NAD Phosphorylase Toxin Triggers Mycobacterium tuberculosis Cell Death. <i>Molecular Cell</i> , 2019 , 73, 1282-1291.e8	17.6	37
49	Stereoselective synthesis of some novel heterocyclic estrone derivatives by intramolecular 1,3-dipolar cycloaddition. <i>Tetrahedron</i> , 2002 , 58, 6843-6849	2.4	34

48	Structure of Ecballium elaterium trypsin inhibitor II (EETI-II): a rigid molecular scaffold. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005 , 61, 1255-62		33
47	Influence of internal dynamics on accuracy of protein NMR structures: derivation of realistic model distance data from a long molecular dynamics trajectory. <i>Journal of Molecular Biology</i> , 1999 , 285, 727-4	10 ^{6.5}	33
46	Alumoxane Hydride and Aluminum Chalcogenide Hydride Compounds with Pyrazolato Ligands. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4276-4279	16.4	32
45	Automatic solution of heavy-atom substructures. <i>Methods in Enzymology</i> , 2003 , 374, 37-83	1.7	31
44	Domain identification by iterative analysis of error-scaled difference distance matrices. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 2269-75		31
43	The First Structurally Characterized Aluminum Compounds with Terminal Acetylide Groups This work was supported by the Deutsche Forschungsgemeinschaft. N.C.MZ. thanks the Schweizerischer Nationalfonds for a fellowship. <i>Angewandte Chemie - International Edition</i> , 2000 ,	16.4	31
42	Subatomic and atomic crystallographic studies of aldose reductase: implications for inhibitor binding. <i>Cellular and Molecular Life Sciences</i> , 2004 , 61, 763-73	10.3	28
41	Crystal structure of the gamma-2 herpesvirus LANA DNA binding domain identifies charged surface residues which impact viral latency. <i>PLoS Pathogens</i> , 2013 , 9, e1003673	7.6	25
40	The crystallographic structure of the aldose reductase-IDD552 complex shows direct proton donation from tyrosine 48. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 1347-5	54	25
39	Ab initio structure determination of the lantibiotic mersacidin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 705-13		25
38	Asymmetric Tris- and Cyclic Silylhydroxylamines from Trimeric and Tetrameric Lithium N,N-Bis(silyl)hydroxylamides. <i>Organometallics</i> , 2000 , 19, 5376-5383	3.8	25
37	1.7 A structure of the stabilized REIv mutant T39K. Application of local NCS restraints. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 1158-67		25
36	Structural and Functional Characterization of the BcsG Subunit of the Cellulose Synthase in Salmonella typhimurium. <i>Journal of Molecular Biology</i> , 2018 , 430, 3170-3189	6.5	19
35	X-ray crystallography reveals stringent conservation of protein fold after removal of the only disulfide bridge from a stabilized immunoglobulin variable domain. <i>Folding & Design</i> , 1997 , 2, 357-61		18
34	Structural insights into the inhibition of glycine reuptake. <i>Nature</i> , 2021 , 591, 677-681	50.4	18
33	Structure of balhimycin and its complex with solvent molecules. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998 , 54, 175-83		17
32	Molecular basis for redox-Bohr and cooperative effects in cytochrome c3 from Desulfovibrio desulfuricans ATCC 27774: crystallographic and modeling studies of oxidized and reduced high-resolution structures at pH 7.6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 54, 135-52	4.2	17
31	The structure of the N-terminal module of the cell wall hydrolase RipA and its role in regulating catalytic activity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86, 912-923	4.2	16

30	Profiling cellular diversity in sponges informs animal cell type and nervous system evolution. <i>Science</i> , 2021 , 374, 717-723	33.3	15
29	MXCuBE2: the dawn of MXCuBE Collaboration. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 393-405	2.4	14
28	A novel Exylosidase structure from Geobacillus thermoglucosidasius: the first crystal structure of a glycoside hydrolase family GH52 enzyme reveals unpredicted similarity to other glycoside hydrolase folds. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 1366-74		14
27	Ultrahigh-resolution study of protein atomic displacement parameters at cryotemperatures obtained with a helium cryostat. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006 , 62, 1535-44		14
26	A multicrystal diffraction data-collection approach for studying structural dynamics with millisecond temporal resolution. <i>IUCrJ</i> , 2016 , 3, 393-401	4.7	14
25	Microfluidic Chips for In Situ Crystal X-ray Diffraction and In Situ Dynamic Light Scattering for Serial Crystallography. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	14
24	Rat ceruloplasmin: a new labile copper binding site and zinc/copper mosaic. <i>Metallomics</i> , 2017 , 9, 1828-	1 <u>&3</u> 8	13
23	Use of multiple anomalous dispersion to phase highly merohedrally twinned crystals of interleukin-1beta. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 290-8		13
22	SCEDS: protein fragments for molecular replacement in Phaser. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013 , 69, 2216-25		12
21	Silylhydrazine und dimere N,N?-Dilithium-N,N?-bis(silyl)hydrazide (Bynthesen, Reaktionen, Isomerisierungen . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001 , 627, 2581-2588	1.3	12
20	Synchrotron radiation: micrometer-sized x-ray beams as fine tools for macromolecular crystallography. <i>HFSP Journal</i> , 2008 , 2, 302-6		11
19	Visualization of protein crystals by high-energy phase-contrast X-ray imaging. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019 , 75, 947-958	5.5	11
18	SITCOM: a program for comparing sites in macromolecular substructures. <i>Journal of Applied Crystallography</i> , 2006 , 39, 618-619	3.8	9
17	Data collection with a tailored X-ray beam size at 2.69 Ewavelength (4.6 keV): sulfur SAD phasing of Cdc23(Nterm). <i>Acta Crystallographica Section D: Structural Biology</i> , 2016 , 72, 403-12	5.5	8
16	Optical performance and radiation stability of polymer X-ray refractive nano-lenses. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 714-719	2.4	6
15	Optimization of selenium substructures as obtained from SHELXD. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1987-94		6
14	A steroidal phenyldihydro-1,3-oxazine derivative. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000 , 56, e363-e364		6
13	Stereoselective Synthesis of the Two trans-(16-Hydroxymethyl)-3-methoxy-13\text{\text{\text{E}}}stra-1,3,5(10)-trien-17-ol Isomers. <i>Collection of Czechoslovak Chemical Communications</i> , 2003 , 68, 1141-1148		5

12	Structure of the alpha-amylase inhibitor tendamistat at 0.93 A. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1737-43		5
11	Long-wavelength Mesh&Collect native SAD phasing from microcrystals. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019 , 75, 192-199	5.5	5
10	Identification of the point of diminishing returns in high-multiplicity data collection for sulfur SAD hasing. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 19-28	2.4	4
9	3-Sulfinopropionyl-coenzyme A (3SP-CoA) desulfinase from Advenella mimigardefordensis DPN7(T): crystal structure and function of a desulfinase with an acyl-CoA dehydrogenase fold. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 1360-72		4
8	Clustering of atomic displacement parameters in bovine trypsin reveals a distributed lattice of atoms with shared chemical properties. <i>Scientific Reports</i> , 2019 , 9, 19281	4.9	4
7	Structural information content at high resolution: MAD versus native. <i>Methods in Enzymology</i> , 2003 , 374, 321-41	1.7	3
6	Comparison of different X-ray data-collection systems using the crystal structure of octreotide. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1995 , 51, 60-8		3
5	3-Methoxy-1?-phenyl-4?[5-dihydro-1H-pyrazolo[4?,3?:16,17]estra-1,3,5(10)-triene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002 , 58, o810-o811		2
4	Crystallization and preliminary X-ray analysis of 3-deoxy-D-arabino-heptulosonate-7-phosphate synthase (tyrosine inhibitable) from Saccharomyces cerevisiae. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999 , 55, 1586-8		2
3	Structural insights into glycine reuptake inhibition		1
2	Ground-state destabilization by electrostatic repulsion is not a driving force in orotidine-5?-monophosphate decarboxylase catalysis. <i>Nature Catalysis</i> , 2022 , 5, 332-341	36.5	1
1	Advances in experimental phasing. Acta Crystallographica Section D: Structural Biology, 2016 , 72, 291-2	5.5	