

# Frank Schlutzenzen

## List of Publications by Year in descending order

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52  
papers

6,973  
citations

147801

31  
h-index

206112

48  
g-index

55  
all docs

55  
docs citations

55  
times ranked

5143  
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. <i>Science</i> , 2021, 372, 642-646.	12.6	240
2	The Research Data Alliance Photon and Neutron Science Interest Group. <i>Synchrotron Radiation News</i> , 2015, 28, 43-47.	0.8	1
3	PaNdata: Open Data Infrastructure for Photon and Neutron Sources. <i>Synchrotron Radiation News</i> , 2015, 28, 30-35.	0.8	8
4	Die Anatomie des Ribosoms. <i>Kristallographie mit Synchrotronlicht. Physik in Unserer Zeit</i> , 2011, 42, 30-38.	0.0	0
5	Interplay between the Ribosomal Tunnel, Nascent Chain, and Macrolides Influences Drug Inhibition. <i>Chemistry and Biology</i> , 2010, 17, 504-514.	6.0	94
6	SnapShot: Antibiotic Inhibition of Protein Synthesis I. <i>Cell</i> , 2009, 138, 1248-1248.e1.	28.9	29
7	Enhanced SnapShot: Antibiotic Inhibition of Protein Synthesis II. <i>Cell</i> , 2009, 139, 212-212.e1.	28.9	20
8	Translational Regulation via L11: Molecular Switches on the Ribosome Turned On and Off by Thiostrepton and Micrococcin. <i>Molecular Cell</i> , 2008, 30, 26-38.	9.7	269
9	The oxazolidinone antibiotics perturb the ribosomal peptidyl-transferase center and effect tRNA positioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13339-13344.	7.1	285
10	Cryo-EM study of the spinach chloroplast ribosome reveals the structural and functional roles of plastid-specific ribosomal proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19315-19320.	7.1	101
11	A Snapshot of the 30S Ribosomal Subunit Capturing mRNA via the Shine-Dalgarno Interaction. <i>Structure</i> , 2007, 15, 289-297.	3.3	94
12	2P594 The antibiotic kasugamycin mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation(55. Drug design and delivery,Poster Session,Abstract,Meeting) Tj ETQq0 0 0 rgBT /Ovarlock 10 Tf 50 297		
13	The antibiotic kasugamycin mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 871-878.	8.2	116
14	Species-specific antibiotic-ribosome interactions: Implications for drug development. <i>FASEB Journal</i> , 2006, 20, A67.	0.5	1
15	X-ray crystallography study on ribosome recycling: the mechanism of binding and action of RRF on the 50S ribosomal subunit. <i>EMBO Journal</i> , 2005, 24, 251-260.	7.8	104
16	The Binding Mode of the Trigger Factor on the Ribosome: Implications for Protein Folding and SRP Interaction. <i>Structure</i> , 2005, 13, 1685-1694.	3.3	88
17	Species-specific antibiotic-ribosome interactions: implications for drug development. <i>Biological Chemistry</i> , 2005, 386, 1239-52.	2.5	77
18	Structural Basis for the Function of the Ribosomal L7/12 Stalk in Factor Binding and GTPase Activation. <i>Cell</i> , 2005, 121, 991-1004.	28.9	354

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19	Inhibition of peptide bond formation by pleuromutilins: the structure of the 50S ribosomal subunit from <i>Deinococcus radiodurans</i> in complex with tiamulin. <i>Molecular Microbiology</i> , 2004, 54, 1287-1294.	2.5	244
20	Functional aspects of ribosomal architecture: symmetry, chirality and regulation. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 901-912.	1.9	39
21	Alterations at the peptidyl transferase centre of the ribosome induced by the synergistic action of the streptogramins dalfopristin and quinupristin. <i>BMC Biology</i> , 2004, 2, 4.	3.8	145
22	Ribosomal crystallography: a flexible nucleotide anchoring tRNA translocation, facilitates peptide-bond formation, chirality discrimination and antibiotics synergism. <i>FEBS Letters</i> , 2004, 567, 20-26.	2.8	36
23	Structural Basis for the Antibiotic Activity of Ketolides and Azalides. <i>Structure</i> , 2003, 11, 329-338.	3.3	225
24	Ribosomal crystallography: Peptide bond formation and its inhibition. <i>Biopolymers</i> , 2003, 70, 19-41.	2.4	41
25	On peptide bond formation, translocation, nascent protein progression and the regulatory properties of ribosomes. Delivered on 20 October 2002 at the 28th FEBS Meeting in Istanbul. <i>FEBS Journal</i> , 2003, 270, 2543-2556.	0.2	60
26	Structural insight into the role of the ribosomal tunnel in cellular regulation. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 366-370.	8.2	175
27	Antibiotics acting on the translational machinery. <i>Journal of Cell Science</i> , 2003, 116, 1391-1393.	2.0	53
28	Structural Basis of the Ribosomal Machinery for Peptide Bond Formation, Translocation, and Nascent Chain Progression. <i>Molecular Cell</i> , 2003, 11, 91-102.	9.7	285
29	Structural Insight into the Antibiotic Action of Telithromycin against Resistant Mutants. <i>Journal of Bacteriology</i> , 2003, 185, 4276-4279.	2.2	163
30	Protein structure: experimental and theoretical aspects. <i>FEBS Letters</i> , 2002, 525, 176-178.	2.8	10
31	On the interaction of colicin E3 with the ribosome. <i>Biochimie</i> , 2002, 84, 447-454.	2.6	18
32	Initiation and Inhibition of Protein Biosynthesis - Studies at High Resolution. <i>Current Protein and Peptide Science</i> , 2002, 3, 55-65.	1.4	11
33	Antibiotics Targeting Ribosomes: Crystallographic Studies. <i>Current Drug Targets Infectious Disorders</i> , 2002, 2, 169-186.	2.1	43
34	Ribosomal Crystallography: From Poorly Diffracting Microcrystals to High-Resolution Structures. <i>Methods</i> , 2001, 25, 292-302.	3.8	25
35	High Resolution Structure of the Large Ribosomal Subunit from a Mesophilic Eubacterium. <i>Cell</i> , 2001, 107, 679-688.	28.9	853
36	Crystal structures of complexes of the small ribosomal subunit with tetracycline, edeine and IF3. <i>EMBO Journal</i> , 2001, 20, 1829-1839.	7.8	454

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37	Structural basis for the interaction of antibiotics with the peptidyl transferase centre in eubacteria. <i>Nature</i> , 2001, 413, 814-821.	27.8	943
38	Ribosomal Crystallography and Heteropolytungstates. , 2001, , 391-415.		1
39	High-resolution Structures of Ribosomal Subunits: Initiation, Inhibition, and Conformational Variability. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2001, 66, 43-56.	1.1	8
40	Structure of Functionally Activated Small Ribosomal Subunit at 3.3 Å... Resolution. <i>Cell</i> , 2000, 102, 615-623.	28.9	925
41	The small ribosomal subunit from <i>Thermus thermophilus</i> at 4.5 Å resolution: Pattern fittings and the identification of a functional site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 14252-14257.	7.1	115
42	The identification of selected components in electron density maps of prokaryotic ribosomes at 7 Å... resolution. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 928-941.	2.4	8
43	Elucidating the medium-resolution structure of ribosomal particles: an interplay between electron cryo-microscopy and X-ray crystallography. <i>Structure</i> , 1999, 7, 931-941.	3.3	41
44	Metal Compounds as Tools for the Construction and the Interpretation of Medium-Resolution Maps of Ribosomal Particles. <i>Journal of Structural Biology</i> , 1999, 127, 141-151.	2.8	32
45	Crystallographic Studies on the Ribosome, a Large Macromolecular Assembly Exhibiting Severe Nonisomorphism, Extreme Beam Sensitivity and No Internal Symmetry. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1998, 54, 945-955.	0.3	68
46	Ribosomal crystallography: from crystal growth to initial phasing. <i>Journal of Crystal Growth</i> , 1996, 168, 308-323.	1.5	13
47	The suitability of a monofunctional reagent of an undecagold cluster for phasing data collected from the large ribosomal subunits from <i>Bacillus stearothermophilus</i> . <i>Biopolymers</i> , 1995, 37, 411-419.	2.4	5
48	A milestone in ribosomal crystallography: the construction of preliminary electron density maps at intermediate resolution. <i>Biochemistry and Cell Biology</i> , 1995, 73, 739-749.	2.0	33
49	Towards Atomic Resolution of Prokaryotic Ribosomes: Crystallographic, Genetic and Biochemical Studies. , 1993, , 397-410.		6
50	Induced quantum gravity and quasiconformal mappings. <i>Classical and Quantum Gravity</i> , 1991, 8, 651-658.	4.0	1
51	The Knizhnik-Polyakov-Zamolodchikov equation in induced quantum (super)gravity. <i>Classical and Quantum Gravity</i> , 1990, 7, 1419-1424.	4.0	2
52	Identification of Selected Ribosomal Components in Crystallographic Maps of Prokaryotic Ribosomal Subunits at Medium Resolution. , 0, , 21-33.		2