# Frank Schluenzen

List of Publications by Year
in descending order

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Version: 2024-02-01

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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 | Structural basis for the interaction of antibiotics with the peptidyl transferase centre in eubacteria. Nature, 2001, 413, 814-821. | 27.8 | 943 |
| 2 | Structure of Functionally Activated Small Ribosomal Subunit at 3.3 Ã... Resolution. Cell, 2000, 102, 615-623. | 28.9 | 925 |
| 3 | High Resolution Structure of the Large Ribosomal Subunit from a Mesophilic Eubacterium. Cell, 2001, 107, 679-688. | 28.9 | 853 |
| 4 | Crystal structures of complexes of the small ribosomal subunit with tetracycline, edeine and IF3. EMBO Journal, 2001, 20, 1829-1839. | 7.8 | 454 |
| 5 | Structural Basis for the Function of the Ribosomal L7/12 Stalk in Factor Binding and GTPase Activation. Cell, 2005, 121, 991-1004. | 28.9 | 354 |
| 6 | Structural Basis of the Ribosomal Machinery for Peptide Bond Formation, Translocation, and Nascent Chain Progression. Molecular Cell, 2003, 11, 91-102. | 9.7 | 285 |
| 7 | The oxazolidinone antibiotics perturb the ribosomal peptidyl-transferase center and effect tRNA positioning. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13339-13344. | 7.1 | 285 |
| 8 | Translational Regulation via L11: Molecular Switches on the Ribosome Turned On and Off by Thiostrepton and Micrococcin. Molecular Cell, 2008, 30, 26-38. | 9.7 | 269 |
| 9 | Inhibition of peptide bond formation by pleuromutilins: the structure of the 50S ribosomal subunit from Deinococcus radiodurans in complex with tiamulin. Molecular Microbiology, 2004, 54, 1287-1294. | 2.5 | 244 |
| 10 | X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. Science, 2021, 372, 642-646. | 12.6 | 240 |
| 11 | Structural Basis for the Antibiotic Activity of Ketolides and Azalides. Structure, 2003, 11, 329-338. | 3.3 | 225 |
| 12 | Structural insight into the role of the ribosomal tunnel in cellular regulation. Nature Structural and Molecular Biology, 2003, 10, 366-370. | 8.2 | 175 |
| 13 | Structural Insight into the Antibiotic Action of Telithromycin against Resistant Mutants. Journal of Bacteriology, 2003, 185, 4276-4279. | 2.2 | 163 |
| 14 | Alterations at the peptidyl transferase centre of the ribosome induced by the synergistic action of the streptogramins dalfopristin and quinupristin. BMC Biology, 2004, 2, 4. | 3.8 | 145 |
| 15 | The antibiotic kasugamycin mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation. Nature Structural and Molecular Biology, 2006, 13, 871-878. | 8.2 | 116 |
| 16 | The small ribosomal subunit from Thermus thermophilus at 4.5 A resolution: Pattern fittings and the identification of a functional site. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 14252-14257. | 7.1 | 115 |
| 17 | X-ray crystallography study on ribosome recycling: the mechanism of binding and action of RRF on the 50S ribosomal subunit. EMBO Journal, 2005, 24, 251-260. | 7.8 | 104 |
| 18 | Cryo-EM study of the spinach chloroplast ribosome reveals the structural and functional roles of plastid-specific ribosomal proteins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19315-19320. | 7.1 | 101 |

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|---|---|---|---|
| 19 | A Snapshot of the 30S Ribosomal Subunit Capturing mRNA via the Shine-Dalgarno Interaction. Structure, 2007, 15, 289-297. | 3.3 | 94 |
| 20 | Interplay between the Ribosomal Tunnel, Nascent Chain, and Macrolides Influences Drug Inhibition. Chemistry and Biology, 2010, 17, 504-514. | 6.0 | 94 |
| 21 | The Binding Mode of the Trigger Factor on the Ribosome: Implications for Protein Folding and SRP Interaction. Structure, 2005, 13, 1685-1694. | 3.3 | 88 |
| 22 | Species-specific antibiotic-ribosome interactions: implications for drug development. Biological Chemistry, 2005, 386, 1239-52. | 2.5 | 77 |
| 23 | Crystallographic Studies on the Ribosome, a Large Macromolecular Assembly Exhibiting Severe Nonisomorphism, Extreme Beam Sensitivity and No Internal Symmetry. Acta Crystallographica Section A: Foundations and Advances, 1998, 54, 945-955. | 0.3 | 68 |
| 24 | 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. FEBS Journal, 2003, 270, 2543-2556. | 0.2 | 60 |
| 25 | Antibiotics acting on the translational machinery. Journal of Cell Science, 2003, 116, 1391-1393. | 2.0 | 53 |
| 26 | Antibiotics Targeting Ribosomes: Crystallographic Studies. Current Drug Targets Infectious Disorders, 2002, 2, 169-186. | 2.1 | 43 |
| 27 | Elucidating the medium-resolution structure of ribosomal particles: an interplay between electron cryo-microscopy and X-ray crystallography. Structure, 1999, 7, 931-941. | 3.3 | 41 |
| 28 | Ribosomal crystallography: Peptide bond formation and its inhibition. Biopolymers, 2003, 70, 19-41. | 2.4 | 41 |
| 29 | Functional aspects of ribosomal architecture: symmetry, chirality and regulation. Journal of Physical Organic Chemistry, 2004, 17, 901-912. | 1.9 | 39 |
| 30 | Ribosomal crystallography: a flexible nucleotide anchoring tRNA translocation, facilitates peptide-bond formation, chirality discrimination and antibiotics synergism. FEBS Letters, 2004, 567, 20-26. | 2.8 | 36 |
| 31 | A milestone in ribosomal crystallography: the construction of preliminary electron density maps at intermediate resolution. Biochemistry and Cell Biology, 1995, 73, 739-749. | 2.0 | 33 |
| 32 | Metal Compounds as Tools for the Construction and the Interpretation of Medium-Resolution Maps of Ribosomal Particles. Journal of Structural Biology, 1999, 127, 141-151. | 2.8 | 32 |
| 33 | SnapShot: Antibiotic Inhibition of Protein Synthesis I. Cell, 2009, 138, 1248-1248.e1. | 28.9 | 29 |
| 34 | Ribosomal Crystallography: From Poorly Diffracting Microcrystals to High-Resolution Structures. Methods, 2001, 25, 292-302. | 3.8 | 25 |
| 35 | Enhanced SnapShot: Antibiotic Inhibition of Protein Synthesis II. Cell, 2009, 139, 212-212.e1. | 28.9 | 20 |
| 36 | On the interaction of colicin E3 with the ribosome. Biochimie, 2002, 84, 447-454. | 2.6 | 18 |

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|---|---|---|---|
| 37 | Ribosomal crystallography: from crystal growth to initial phasing. Journal of Crystal Growth, 1996, 168, 308-323. | 1.5 | 13 |
| 38 | Initiation and Inhibition of Protein Biosynthesis - Studies at High Resolution. Current Protein and Peptide Science, 2002, 3, 55-65. | 1.4 | 11 |
| 39 | Protein structure: experimental and theoretical aspects. FEBS Letters, 2002, 525, 176-178. | 2.8 | 10 |
| 40 | The identification of selected components in electron density maps of prokaryotic ribosomes at 7â€…Ã… resolution. Journal of Synchrotron Radiation, 1999, 6, 928-941. | 2.4 | 8 |
| 41 | PaNdata: Open Data Infrastructure for Photon and Neutron Sources. Synchrotron Radiation News, 2015, 28, 30-35. | 0.8 | 8 |
| 42 | High-resolution Structures of Ribosomal Subunits: Initiation, Inhibition, and Conformational Variability. Cold Spring Harbor Symposia on Quantitative Biology, 2001, 66, 43-56. | 1.1 | 8 |
| 43 | Towards Atomic Resolution of Prokaryotic Ribosomes: Crystallographic, Genetic and Biochemical Studies. , 1993, , 397-410. | | 6 |
| 44 | The suitability of a monofunctional reagent of an undecagold cluster for phasing data collected from the large ribosomal subunits fromBacillus stearothermophilus. Biopolymers, 1995, 37, 411-419. | 2.4 | 5 |
| 45 | The Knizhnik-Polyakov-Zamolodchikov equation in induced quantum (super)gravity. Classical and Quantum Gravity, 1990, 7, 1419-1424. | 4.0 | 2 |
| 46 | Identification of Selected Ribosomal Components in Crystallographic Maps of Prokaryotic Ribosomal Subunits at Medium Resolution. , 0, , 21-33. | | 2 |
| 47 | Induced quantum gravity and quasiconformal mappings. Classical and Quantum Gravity, 1991, 8, 651-658. | 4.0 | 1 |
| 48 | The Research Data Alliance Photon and Neutron Science Interest Group. Synchrotron Radiation News, 2015, 28, 43-47. | 0.8 | 1 |
| 49 | Ribosomal Crystallography and Heteropolytungstates. , 2001, , 391-415. | | 1 |
| 50 | Speciesâ€specific antibioticâ€ribosome interactions: Implications for drug development. FASEB Journal, 2006, 20, A67. | 0.5 | 1 |
| 51 | 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 ETQq1 1 0.784314 rgBT /Overlock 10 | | 0 |
| 52 | Die Anatomie des Ribosoms. Kristallographie mit Synchrotronlicht. Physik in Unserer Zeit, 2011, 42, 30-38. | 0.0 | 0 |