

Thomas D Grant

List of Publications by Year in descending order

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56
papers

2,312
citations

394421

19
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345221

36
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62
all docs

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docs citations

62
times ranked

3520
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-flow injection for serial crystallography at X-ray free-electron lasers. <i>Journal of Applied Crystallography</i> , 2022, 55, 1-13.	4.5	12
2	Synchronous RNA conformational changes trigger ordered phase transitions in crystals. <i>Nature Communications</i> , 2021, 12, 1762.	12.8	17
3	Reply to: Limitations of the iterative electron density reconstruction algorithm from solution scattering data. <i>Nature Methods</i> , 2021, 18, 246-248.	19.0	5
4	Segmented flow generator for serial crystallography at the European X-ray free electron laser. <i>Nature Communications</i> , 2020, 11, 4511.	12.8	27
5	Crystallization of ApoA1 and ApoE4 Nanolipoprotein Particles and Initial XFEL-Based Structural Studies. <i>Crystals</i> , 2020, 10, 886.	2.2	6
6	AB Initio Electron Density Determination Directly from Solution Scattering Data. <i>Biophysical Journal</i> , 2020, 118, 487a.	0.5	0
7	XFEL and NMR Structures of Francisella Lipoprotein Reveal Conformational Space of Drug Target against Tularemia. <i>Structure</i> , 2020, 28, 540-547.e3.	3.3	8
8	Rhodopsin's Ultra-Fast Activation Dynamics in Bilayer and Micelle Environments. <i>Biophysical Journal</i> , 2020, 118, 92a.	0.5	0
9	Membrane Protein Dynamics Revealed by X-Ray Scattering with a Femtosecond Free-Electron Laser. <i>Biophysical Journal</i> , 2020, 118, 365a.	0.5	1
10	A fixed-target platform for serial femtosecond crystallography in a hydrated environment. <i>IUCr</i> , 2020, 7, 30-41.	2.2	21
11	Study of Ultra-Fast Rhodopsin Activation Dynamics with Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2019, 116, 205a.	0.5	0
12	Membrane protein megahertz crystallography at the European XFEL. <i>Nature Communications</i> , 2019, 10, 5021.	12.8	47
13	Structural basis of ligand recognition at the human MT1 melatonin receptor. <i>Nature</i> , 2019, 569, 284-288.	27.8	140
14	Snapshot of an oxygen intermediate in the catalytic reaction of cytochrome <i>c</i> oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3572-3577.	7.1	70
15	X-ray Emission Spectroscopy at X-ray Free Electron Lasers: Limits to Observation of the Classical Spectroscopic Response for Electronic Structure Analysis. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 441-446.	4.6	8
16	3D printed droplet generation devices for serial femtosecond crystallography enabled by surface coating. <i>Journal of Applied Crystallography</i> , 2019, 52, 997-1008.	4.5	19
17	Structural consequences of transforming growth factor beta-1 activation from near-therapeutic X-ray doses. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 967-979.	2.4	10
18	Superposition of Macromolecular Electron Density Maps in X-ray Solution Scattering (SAXS). <i>FASEB Journal</i> , 2019, 33, 779.27.	0.5	0

#	ARTICLE	IF	CITATIONS
19	Structural studies on low-dose X-ray radiation induced transforming growth factor beta-1 (TGF β -1) activation. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a82-a82.	0.1	0
20	Structural consequences on transforming growth factor beta-1 activation from near-therapeutic X-ray doses. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a233-a233.	0.1	0
21	Ab initio electron density determination directly from solution scattering data. Nature Methods, 2018, 15, 191-193.	19.0	169
22	Enzyme intermediates captured "on the fly" by mix-and-inject serial crystallography. BMC Biology, 2018, 16, 59.	3.8	117
23	Biological Small Angle Scattering. , 2018, , .		7
24	Examples of Biological Small Angle Scattering. , 2018, , .		8
25	Solving the phase problem in solution scattering. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, a158-a158.	0.1	0
26	Using X-ray free-electron laser to capture intermediate states. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, a15-a15.	0.1	0
27	Developments on the Horizon. , 2018, , .		0
28	Examples of Data Collection and Processing. , 2018, , .		0
29	Making the Best Use of Beamtime. , 2018, , .		0
30	Instrumental and Experimental Considerations. , 2018, , .		0
31	Distinct Instrumental Approaches to SAXS. , 2018, , .		0
32	Shape Reconstructions from Small Angle Scattering Data. , 2018, , .		0
33	Before the Beamtime. , 2018, , .		0
34	Quantities Directly Measurable by Scattering. , 2018, , .		0
35	Pushing the Envelope. , 2018, , .		1
36	Structural enzymology using X-ray free electron lasers. Structural Dynamics, 2017, 4, 044003.	2.3	92

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37	FRET, SAXS and Molecular Simulations Resolve the Solution Structures of Three Coexisting Conformers of Flexible RNA Four-Way Junction. <i>Biophysical Journal</i> , 2017, 112, 367a.	0.5	0
38	Structure of the full-length glucagon class B G-protein-coupled receptor. <i>Nature</i> , 2017, 546, 259-264.	27.8	179
39	Crystal structure of CO-bound cytochrome <i>c</i> oxidase determined by serial femtosecond X-ray crystallography at room temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8011-8016.	7.1	51
40	Structures of riboswitch RNA reaction states by mix-and-inject XFEL serial crystallography. <i>Nature</i> , 2017, 541, 242-246.	27.8	251
41	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. <i>Science</i> , 2016, 352, 725-729.	12.6	348
42	Structural and Functional Characterization of Aerobactin Synthetase lucA from a Hypervirulent Pathotype of <i>Klebsiella pneumoniae</i> . <i>Biochemistry</i> , 2016, 55, 3559-3570.	2.5	21
43	Serial femtosecond X-ray diffraction of enveloped virus microcrystals. <i>Structural Dynamics</i> , 2015, 2, 041720.	2.3	11
44	Microfluidic sorting of protein nanocrystals by size for X-ray free-electron laser diffraction. <i>Structural Dynamics</i> , 2015, 2, 041719.	2.3	24
45	Towards a generalised approach for the time-resolved crystallographic study of enzymes. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s25-s25.	0.1	0
46	The accurate assessment of small-angle X-ray scattering data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 45-56.	2.5	34
47	A hybrid NMR/SAXS-based approach for discriminating oligomeric protein interfaces using <i>scprosetta</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 309-317.	2.6	33
48	The Structure of the PanD/PanZ Protein Complex Reveals Negative Feedback Regulation of Pantothenate Biosynthesis by Coenzyme A. <i>Chemistry and Biology</i> , 2015, 22, 492-503.	6.0	30
49	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. <i>Science</i> , 2014, 346, 1242-1246.	12.6	418
50	A new view on crystal harvesting. <i>Journal of Applied Crystallography</i> , 2014, 47, 1158-1161.	4.5	2
51	Comparing Chemistry to Outcome: The Development of a Chemical Distance Metric, Coupled with Clustering and Hierarchal Visualization Applied to Macromolecular Crystallography. <i>PLoS ONE</i> , 2014, 9, e100782.	2.5	14
52	Chemical clustering and visualization applied to macromolecular crystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C1145-C1145.	0.1	0
53	The Structure of Yeast Glutaminyl-tRNA Synthetase and Modeling of Its Interaction with tRNA. <i>Journal of Molecular Biology</i> , 2013, 425, 2480-2493.	4.2	13
54	Purification and SAXS Analysis of the Integrin Linked Kinase, PINCH, Parvin (IPP) Heterotrimeric Complex. <i>PLoS ONE</i> , 2013, 8, e55591.	2.5	12

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55	Structural conservation of an ancient tRNA sensor in eukaryotic glutaminyl-tRNA synthetase. <i>Nucleic Acids Research</i> , 2012, 40, 3723-3731.	14.5	14
56	Small angle X-ray scattering as a complementary tool for high-throughput structural studies. <i>Biopolymers</i> , 2011, 95, 517-530.	2.4	69