Raimond B G Ravelli

List of Publications by Year in descending order

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		46918	30010
110	11,360	47	103
papers	citations	h-index	g-index
123	123	123	16488
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Mycobacteria–host interactions in human bronchiolar airway organoids. Molecular Microbiology, 2022, 117, 682-692.	1.2	32
2	Endocytosed nanogold fiducials for improved in-situ cryo–electron tomography tilt-series alignment. Journal of Structural Biology, 2021, 213, 107698.	1.3	5
3	Structure of the Yersinia injectisome in intracellular host cell phagosomes revealed by cryo FIB electron tomography. Journal of Structural Biology, 2021, 213, 107701.	1.3	28
4	<i>Mycobacterium tuberculosis</i> ferritin: a suitable workhorse protein for cryo-EM development. Acta Crystallographica Section D: Structural Biology, 2021, 77, 1077-1083.	1.1	6
5	Single-particle cryo-EM: alternative schemes to improve dose efficiency. Journal of Synchrotron Radiation, 2021, 28, 1343-1356.	1.0	5
6	An organoidâ€derived bronchioalveolar model for SARSâ€CoVâ€2 infection of human alveolar type IIâ€like cells. EMBO Journal, 2021, 40, e105912.	3.5	153
7	Priming mycobacterial ESX-secreted protein B to form a channel-like structure. Current Research in Structural Biology, 2021, 3, 153-164.	1.1	15
8	Structural Analysis of the Partially Disordered Protein EspK from Mycobacterium Tuberculosis. Crystals, 2021, 11, 18.	1.0	2
9	Efficient molecule discrimination in electron microscopy through an optimized orbital angular momentum sorter. Physical Review A, 2020, 102, .	1.0	8
10	Sub-pixel electron detection using a convolutional neural network. Ultramicroscopy, 2020, 218, 113091.	0.8	19
11	Structural dynamics of the GluK3-kainate receptor neurotransmitter binding domains revealed by cryo-EM. International Journal of Biological Macromolecules, 2020, 149, 1051-1058.	3.6	11
12	Architecture of the flexible tail tube of bacteriophage SPP1. Nature Communications, 2020, 11, 5759.	5.8	37
13	VitroJet: Bridging the Gap in Sample Prep. Microscopy and Microanalysis, 2020, 26, 328-328.	0.2	1
14	Cryo-EM structure of islet amyloid polypeptide fibrils reveals similarities with amyloid-β fibrils. Nature Structural and Molecular Biology, 2020, 27, 660-667.	3.6	120
15	Could Egg White Lysozyme be Solved by Single Particle Cryo-EM?. Journal of Chemical Information and Modeling, 2020, 60, 2605-2613.	2.5	11
16	SARS-CoV-2 productively infects human gut enterocytes. Science, 2020, 369, 50-54.	6.0	1,347
17	Cryo-EM structures from sub-nl volumes using pin-printing and jet vitrification. Nature Communications, 2020, 11, 2563.	5.8	85
18	How the Observation in a New Custom Basis Based on Orbital Angular Momentum Space Could Improve Our Dose Effective Reconstruction of the Protein Structure Microscopy and Microanalysis, 2020, 26, 1168-1169.	0.2	0

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19	Atomic structure of PI3-kinase SH3 amyloid fibrils by cryo-electron microscopy. Nature Communications, 2019, 10, 3754.	5.8	32
20	Exemplar-based inpainting as a solution to the missing wedge problem in electron tomography. Ultramicroscopy, 2018, 191, 1-10.	0.8	11
21	Calibration of rotation axes for multi-axis goniometers in macromolecular crystallography. Journal of Applied Crystallography, 2018, 51, 1421-1427.	1.9	3
22	Fibril structure of amyloid-β(1–42) by cryo–electron microscopy. Science, 2017, 358, 116-119.	6.0	801
23	Single-particle cryo-EM using alignment by classification (ABC): the structure of <i>Lumbricus terrestris</i> haemoglobin. IUCrJ, 2017, 4, 678-694.	1.0	30
24	A posteriori correction of camera characteristics from large image data sets. Scientific Reports, 2015, 5, 10317.	1.6	22
25	Radiation damage to nucleoprotein complexes inÂmacromolecular crystallography. Journal of Synchrotron Radiation, 2015, 22, 213-224.	1.0	21
26	Replication of <i>Plasmodium</i> in reticulocytes can occur without hemozoin formation, resulting in chloroquine resistance. Journal of Experimental Medicine, 2015, 212, 893-903.	4.2	62
27	Accounting for partiality in serial crystallography using ray-tracing principles. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1799-1811.	2.5	18
28	Conversion of Mature Human β-Cells Into Glucagon-Producing α-Cells. Diabetes, 2013, 62, 2471-2480.	0.3	115
29	Glomerular Endothelial Surface Layer Acts as a Barrier against Albumin Filtration. American Journal of Pathology, 2013, 182, 1532-1540.	1.9	99
30	Destruction of Tissue, Cells and Organelles in Type 1 Diabetic Rats Presented at Macromolecular Resolution. Scientific Reports, 2013, 3, 1804.	1.6	46
31	Localization of fluorescently labeled structures in frozen-hydrated samples using integrated light electron microscopy. Journal of Structural Biology, 2013, 181, 283-290.	1.3	61
32	Image formation modeling in cryo-electron microscopy. Journal of Structural Biology, 2013, 183, 19-32.	1.3	90
33	Non-rigid image registration to reduce beam-induced blurring of cryo-electron microscopy images. Journal of Synchrotron Radiation, 2013, 20, 58-66.	1.0	5
34	The use of a mini-κ goniometer head in macromolecular crystallography diffraction experiments. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1241-1251.	2.5	42
35	Design and Characterization of Modular Scaffolds for Tubulin Assembly. Journal of Biological Chemistry, 2012, 287, 31085-31094.	1.6	22
36	Large Multimeric Assemblies of Nucleosome Assembly Protein and Histones Revealed by Small-angle X-ray Scattering and Electron Microscopy. Journal of Biological Chemistry, 2012, 287, 26657-26665.	1.6	12

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37	Virtual nanoscopy: Generation of ultra-large high resolution electron microscopy maps. Journal of Cell Biology, 2012, 198, 457-469.	2.3	110
38	Precise and unbiased estimation of astigmatism and defocus in transmission electron microscopy. Ultramicroscopy, 2012, 116, 115-134.	0.8	22
39	Non-Random mtDNA Segregation Patterns Indicate a Metastable Heteroplasmic Segregation Unit in m.3243A>G Cybrid Cells. PLoS ONE, 2012, 7, e52080.	1.1	21
40	A new approach to improve the quality of ultrathin cryo-sections; its use for immunogold EM and correlative electron cryo-tomography. Journal of Structural Biology, 2011, 175, 62-72.	1.3	29
41	Defocus estimation from stroboscopic cryo-electron microscopy data. Ultramicroscopy, 2011, 111, 1592-1598.	0.8	6
42	Translation calibration of inverse-kappa goniometers in macromolecular crystallography. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 219-228.	0.3	15
43	Radiation damage in single-particle cryo-electron microscopy: effects of dose and dose rate. Journal of Synchrotron Radiation, 2011, 18, 398-412.	1.0	88
44	Cartilage ultrastructure in proteoglycanâ€deficient zebrafish mutants brings to light new candidate genes for human skeletal disorders. Journal of Pathology, 2011, 223, 531-542.	2.1	38
45	Infrared protein crystallography. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 760-777.	1.1	24
46	PS13 - 65. Correlated microscopy and nanotomy to analyze complete cross sections of Islets of Langerhans in Type I diabetes. Nederlands Tijdschrift Voor Diabetologie, 2011, 9, 135-135.	0.0	0
47	A toolkit for the characterization of CCD cameras for transmission electron microscopy. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 97-109.	2.5	31
48	<i>MxCuBE</i> : a synchrotron beamline control environment customized for macromolecular crystallography experiments. Journal of Synchrotron Radiation, 2010, 17, 700-707.	1.0	193
49	Estimation of defocus and astigmatism in transmission electron microscopy. , 2010, , .		1
50	Structure of SRP14 from the <i>Schizosaccharomyces pombe</i> signal recognition particle. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 421-433.	2.5	10
51	Improving diffraction by humidity control: a novel device compatible with X-ray beamlines. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 1237-1246.	2.5	109
52	Colouring cryo-cooled crystals: online microspectrophotometry. Journal of Synchrotron Radiation, 2009, 16, 163-172.	1.0	69
53	A decade of user operation on the macromolecular crystallography MAD beamline ID14-4 at the ESRF. Journal of Synchrotron Radiation, 2009, 16, 803-812.	1.0	54
54	Strain relief at the active site of phosphoserine aminotransferase induced by radiation damage. Protein Science, 2009, 14, 1498-1507.	3.1	50

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55	Variations in the colchicine-binding domain provide insight into the structural switch of tubulin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13775-13779.	3.3	239
56	Radiation stability of proteinase K crystals grown by LB nanotemplate method. Journal of Structural Biology, 2009, 168, 409-418.	1.3	23
57	Complexes of tubulin with inhibitors that bind to the colchicine domain. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s25-s26.	0.3	0
58	Differential specific radiation damage in the Cu ^{II} -bound and Pd ^{II} -bound forms of an α-helical foldamer: a case study of crystallographic phasing by RIP and SAD. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 264-272.	2.5	7
59	X-ray tomographic reconstruction of macromolecular samples. Journal of Applied Crystallography, 2008, 41, 1057-1066.	1.9	28
60	Structural insight into the inhibition of tubulin by vinca domain peptide ligands. EMBO Reports, 2008, 9, 1101-1106.	2.0	140
61	Microtubule-Destabilizing Agents: Structural and Mechanistic Insights from the Interaction of Colchicine and Vinblastine with Tubulin. Topics in Current Chemistry, 2008, 286, 259-278.	4.0	51
62	The 1.8-à Crystal Structure of α1-Acid Glycoprotein (Orosomucoid) Solved by UV RIP Reveals the Broad Drug-Binding Activity of This Human Plasma Lipocalin. Journal of Molecular Biology, 2008, 384, 393-405.	2.0	142
63	Structural analysis of the genetic switch that regulates the expression of restriction-modification genes. Nucleic Acids Research, 2008, 36, 4778-4787.	6.5	34
64	Quickly Getting the Best Data from Your Macromolecular Crystals with a New Generation of Beamline Instruments. AIP Conference Proceedings, 2007, , .	0.3	15
65	Structural insights into the Slit-Robo complex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14923-14928.	3.3	159
66	Structure of Dimeric SecA, the Escherichia coli Preprotein Translocase Motor. Journal of Molecular Biology, 2007, 366, 1545-1557.	2.0	127
67	The Solution and Crystal Structures of a Module Pair from the Staphylococcus aureus-Binding Site of Human Fibronectin—A Tale with a Twist. Journal of Molecular Biology, 2007, 368, 833-844.	2.0	34
68	3-D Structure of Serum Paraoxonase 1 Sheds Light on Its Activity, Stability, Solubility and Crystallizability. Arhiv Za Higijenu Rada I Toksikologiju, 2007, 58, 347-353.	0.4	30
69	Plastic-embedded protein crystals. Journal of Synchrotron Radiation, 2007, 14, 128-132.	1.0	6
70	X-ray radiation-induced damage in DNA monitored by online Raman. Journal of Synchrotron Radiation, 2007, 14, 99-108.	1.0	40
71	Crystal Structure of the Rabies Virus Nucleoprotein-RNA Complex. Science, 2006, 313, 360-363.	6.0	299
72	Structural Basis for Budding by the ESCRT-III Factor CHMP3. Developmental Cell, 2006, 10, 821-830.	3.1	220

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73	Is radiation damage dependent on the dose rate used during macromolecular crystallography data collection?. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 125-132.	2.5	51
74	C3D: a program for the automated centring of cryocooled crystals. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1348-1357.	2.5	29
75	Radiation damage in macromolecular cryocrystallography. Current Opinion in Structural Biology, 2006, 16, 624-629.	2.6	134
76	Biochemical Characterization and Crystal Structure of Synechocystis Arogenate Dehydrogenase Provide Insights into Catalytic Reaction. Structure, 2006, 14, 767-776.	1.6	31
77	Phasing Macromolecular Structures with UV-Induced Structural Changes. Structure, 2006, 14, 791-800.	1.6	42
78	Structural basis for the regulation of tubulin by vinblastine. Nature, 2005, 435, 519-522.	13.7	651
79	X-Ray Crystallographic and NMR Studies of the Third KH Domain of hnRNP K in Complex with Single-Stranded Nucleic Acids. Structure, 2005, 13, 1055-1067.	1.6	90
80	Automation of macromolecular crystallography beamlines. Progress in Biophysics and Molecular Biology, 2005, 89, 124-152.	1.4	46
81	Improving radiation-damage substructures for RIP. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1227-1237.	2.5	82
82	Parameters affecting the X-ray dose absorbed by macromolecular crystals. Journal of Synchrotron Radiation, 2005, 12, 268-275.	1.0	70
83	Phasing in the presence of radiation damage. Journal of Synchrotron Radiation, 2005, 12, 276-284.	1.0	47
84	Supercooled liquid-like solvent in trypsin crystals: implications for crystal annealing and temperature-controlled X-ray radiation damage studies. Journal of Synchrotron Radiation, 2005, 12, 310-317.	1.0	30
85	Initial Events in the Photocycle of Photoactive Yellow Protein. Journal of Biological Chemistry, 2004, 279, 26417-26424.	1.6	63
86	Structure and evolution of the serum paraoxonase family of detoxifying and anti-atherosclerotic enzymes. Nature Structural and Molecular Biology, 2004, 11, 412-419.	3.6	569
87	Insight into tubulin regulation from a complex with colchicine and a stathmin-like domain. Nature, 2004, 428, 198-202.	13.7	1,441
88	Crystallization, microPIXE and preliminary crystallographic analysis of the complex between the third KH domain of hnRNP K and single-stranded DNA. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 784-787.	2.5	10
89	Expression, crystallization and crystallographic analysis of DegS, a stress sensor of the bacterial periplasm. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1429-1431.	2.5	5
90	X-ray absorption by macromolecular crystals: the effects of wavelength and crystal composition on absorbed dose. Journal of Applied Crystallography, 2004, 37, 513-522.	1.9	178

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91	Structure of an Activated Dictyostelium STAT in Its DNA-Unbound Form. Molecular Cell, 2004, 13, 791-804.	4.5	60
92	Specific Radiation Damage Can Be Used to Solve Macromolecular Crystal Structures. Structure, 2003, 11, 217-224.	1.6	141
93	Zero-dose extrapolation as part of macromolecular synchrotron data reduction. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 903-909.	2.5	66
94	The Structure of Bovine Lysosomal α-Mannosidase Suggests a Novel Mechanism for Low-pH Activation. Journal of Molecular Biology, 2003, 327, 631-644.	2.0	82
95	Tryparedoxins from Crithidia fasciculata and Trypanosoma brucei. Journal of Biological Chemistry, 2003, 278, 25919-25925.	1.6	43
96	Characterization of Photocycle Intermediates in Crystalline Photoactive Yellow Proteinâ€Â¶. Photochemistry and Photobiology, 2003, 78, 131.	1.3	19
97	Crystallization and preliminary X-ray analysis of theEscherichia coliadaptor protein ClpS, free and in complex with the N-terminal domain of ClpA. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1207-1210.	2.5	6
98	Unit-cell volume change as a metric ofÂradiation damage in crystals of macromolecules. Journal of Synchrotron Radiation, 2002, 9, 355-360.	1.0	63
99	Evidence for the formation of disulfide radicals in protein crystals upon X-ray irradiation. Journal of Synchrotron Radiation, 2002, 9, 342-346.	1.0	63
100	Structural analysis of the adaptor protein ClpS in complex with the N-terminal domain of ClpA. Nature Structural Biology, 2002, 9, 906-911.	9.7	115
101	Specific protein dynamics near the solvent glass transition assayed by radiation-induced structural changes. Protein Science, 2001, 10, 1953-1961.	3.1	64
102	The †fingerprint' that X-rays can leave on structures. Structure, 2000, 8, 315-328.	1.6	302
103	Specific chemical and structural damage to proteins produced by synchrotron radiation. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 623-628.	3.3	438
104	Ab initiostructure determination of low-molecular-weight compounds using synchrotron radiation Laue diffraction. Journal of Synchrotron Radiation, 1999, 6, 19-28.	1.0	4
105	Static Laue Diffraction Studies on Acetylcholinesterase. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 1359-1366.	2.5	29
106	Activity of Torpedo Californica Acetylcholinesterase in the Crystalline State. , 1998, , 230-231.		0
107	STRATEGY: a program to optimize the starting spindle angle and scan range for X-ray data collection. Journal of Applied Crystallography, 1997, 30, 551-554.	1.9	55
108	Towards Automatic Indexing of the Laue Diffraction Pattern. Journal of Applied Crystallography, 1996, 29, 270-278.	1.9	22

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109	Soluble monomeric acetylcholinesterase from mouse: Expression, purification, and crystallization in complex with fasciculin. Protein Science, 1996, 5, 672-679.	3.1	56
110	Crystal structure of an acetylcholinesterase–fasciculin complex: interaction of a three-fingered toxin from snake venom with its target. Structure, 1995, 3, 1355-1366.	1.6	232