Connie Darmanin

List of Publications by Year
in descending order

47 papers	1,111 citations	331670 21 h-index	395702 33 g-index
47 all docs	47 docs citations	47 times ranked	1478 citing authors

#	Article	IF	Citations
1	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
2	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. Proteins: Structure, Function and Bioinformatics, 2004, 55, 805-813.	2.6	83
3	Structure of Aldehyde Reductase Holoenzyme in Complex with the Potent Aldose Reductase Inhibitor Fidarestat:Â Implications for Inhibitor Binding and Selectivity. Journal of Medicinal Chemistry, 2005, 48, 5536-5542.	6.4	70
4	Sorbitol Dehydrogenase: Structure, Function and Ligand Design. Current Medicinal Chemistry, 2004, 11, 465-476.	2.4	69
5	Hematinâ^'Hematin Self-Association States Involved in the Formation and Reactivity of the Malaria Parasite Pigment, Hemozoin. Biochemistry, 2010, 49, 6804-6811.	2.5	57
6	MyD88 TIR domain higher-order assembly interactions revealed by microcrystal electron diffraction and serial femtosecond crystallography. Nature Communications, 2021, 12, 2578.	12.8	55
7	High-Throughput Production and Structural Characterization of Libraries of Self-Assembly Lipidic Cubic Phase Materials. ACS Combinatorial Science, 2012, 14, 247-252.	3.8	42
8	Incorporation of the dopamine D2L receptor and bacteriorhodopsin within bicontinuous cubic lipid phases. 1. Relevance to in meso crystallization of integral membrane proteins in monoolein systems. Soft Matter, 2010, 6, 4828.	2.7	41
9	High-throughput analysis of the structural evolution of the monoolein cubic phase in situ under crystallogenesis conditions. Soft Matter, 2012, 8, 2310.	2.7	35
10	Incorporation of the dopamine D2L receptor and bacteriorhodopsin within bicontinuous cubic lipid phases. 2. Relevance to in meso crystallization of integral membrane proteins in novel lipid systems. Soft Matter, 2010, 6, 4838.	2.7	34
11	Effect of lipid architecture on cubic phase susceptibility to crystallisation screens. Soft Matter, 2012, 8, 6884.	2.7	30
12	High-Resolution Structures of Human Aldose Reductase Holoenzyme in Complex with Stereoisomers of the Potent Inhibitor Fidarestat:Â Stereospecific Interaction between the Enzyme and a Cyclic Imide Type Inhibitor. Journal of Medicinal Chemistry, 2004, 47, 4530-4537.	6.4	29
13	Enhanced uptake of an integral membrane protein, the dopamine D2L receptor, by cubic nanostructured lipidnanoparticles doped with Ni(<scp>ii</scp>) chelated EDTA amphiphiles. Soft Matter, 2011, 7, 567-578.	2.7	29
14	In Meso Crystallization: Compatibility of Different Lipid Bicontinuous Cubic Mesophases with the Cubic Crystallization Screen in Aqueous Solution. Crystal Growth and Design, 2014, 14, 1771-1781.	3.0	29
15	Evaluation of serial crystallographic structure determination within megahertz pulse trains. Structural Dynamics, 2019, 6, 064702.	2.3	26
16	Structure of human aldose reductase holoenzyme in complex with Statil: An approach to structure-based inhibitor design of the enzyme. Proteins: Structure, Function and Bioinformatics, 2002, 50, 230-238.	2.6	25
17	Modelling studies on the binding of substrate and inhibitor to the active site of human sorbitol dehydrogenase. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1101-1104.	2.2	24
18	Modelling studies of the active site of human sorbitol dehydrogenase: an approach to structure-based inhibitor design of the enzyme. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 3133-3136.	2.2	24

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19	Lysozyme conformational changes with ionic liquids: Spectroscopic, small angle x-ray scattering and crystallographic study. Journal of Colloid and Interface Science, 2021, 585, 433-443.	9.4	24
20	Crystal structure of human L-xylulose reductase holoenzyme: Probing the role of Asn107 with site-directed mutagenesis. Proteins: Structure, Function and Bioinformatics, 2004, 55, 724-732.	2.6	22
21	Protein crystal screening and characterization for serial femtosecond nanocrystallography. Scientific Reports, 2016, 6, 25345.	3.3	22
22	X-ray laserâ€“induced electron dynamics observed by femtosecond diffraction from nanocrystals of Buckminsterfullerene. Science Advances, 2016, 2, e1601186.	10.3	20
23	Probing the ultra-high resolution structure of aldose reductase with molecular modelling and noncovalent mass spectrometry. Bioorganic and Medicinal Chemistry, 2004, 12, 3797-3806.	3.0	19
24	Structure of the tetrameric form of human L-Xylulose reductase: Probing the inhibitor-binding site with molecular modeling and site-directed mutagenesis. Proteins: Structure, Function and Bioinformatics, 2005, 60, 424-432.	2.6	17
25	Mixing and jetting analysis using continuous flow microfluidic sample delivery devices. RSC Advances, 2020, 10, 15694-15701.	3.6	16
26	A Novel Acoustomicrofluidic Nebulization Technique Yielding New Crystallization Morphologies. Advanced Materials, 2018, 30, 1602040.	21.0	15
27	Fluctuation X-ray diffraction reveals three-dimensional nanostructure and disorder in self-assembled lipid phases. Communications Materials, 2020, 1, .	6.9	13
28	Effect of Lipidic Cubic Phase Structure on Functionality of the Dopamine 2L Receptor: Implications for in Meso Crystallization. Crystal Growth and Design, 2016, 16, 5014-5022.	3.0	12
29	Characterisation of an autoreactive conformational epitope on GAD65 recognised by the human monoclonal antibody b78 using a combination of phage display, in vitro mutagenesis and molecular modelling. Journal of Autoimmunity, 2006, 26, 172-181.	6.5	11
30	Data reduction for serial crystallography using a robust peak finder. Journal of Applied Crystallography, 2021, 54, 1360-1378.	4.5	10
31	A peak-finding algorithm based on robust statistical analysis in serial crystallography. Journal of Applied Crystallography, 2017, 50, 1705-1715.	4.5	9
32	Uptake of the butyrate receptors, GPR41 and GPR43, in lipidic bicontinuous cubic phases suitable for in meso crystallization. Journal of Colloid and Interface Science, 2015, 441, 78-84.	9.4	8
33	Ptychographic imaging of NaD1 induced yeast cell death. Biomedical Optics Express, 2019, 10, 4964.	2.9	8
34	The Influence of Photoelectron Escape in Radiation Damage Simulations of Protein Micro-Crystallography. Crystals, 2018, 8, 267.	2.2	7
35	Analysis of Multi-Hit Crystals in Serial Synchrotron Crystallography Experiments Using High-Viscosity Injectors. Crystals, 2021, 11, 49.	2.2	5
36	Observations of phase changes in monoolein during high viscous injection. Journal of Synchrotron Radiation, 2022, 29, 602-614.	2.4	5

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37	Structure-based design of inhibitors of human l-xylulose reductase modelled into the active site of the enzyme. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1469-1474.	2.2	3
38	Measurements of Long-range Electronic Correlations During Femtosecond Diffraction Experiments Performed on Nanocrystals of Buckminsterfullerene. Journal of Visualized Experiments, 2017, , .	0.3	3
39	Nanoscale mapping of the three-dimensional deformation field within commercial nanodiamonds. International Journal of Nanotechnology, 2017, 14, 251.	0.2	3
40	Stability, flow alignment and a phase transition of the lipidic cubic phase during continuous flow injection. Journal of Colloid and Interface Science, 2022, 611, 588-598.	9.4	3
41	Expression, purification and preliminary crystallographic analysis of human sorbitol dehydrogenase. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 558-560.	2.5	2
42	Lipidico Injection Protocol for Serial Crystallography Measurements at the Australian Synchrotron. Journal of Visualized Experiments, 2020, , .	0.3	2
43	Preferred orientation and its effects on intensity-correlation measurements. IUCrJ, 2022, 9, 231-242.	2.2	2
44	Microfluidic mixing and jetting devices based on SU8 and glass for time-resolved molecular imaging experiments. , 2019, , .		1
45	Crystallization: A Novel Acoustomicrofluidic Nebulization Technique Yielding New Crystallization Morphologies (Adv. Mater. 3/2018). Advanced Materials, 2018, 30, 1870018.	21.0	0
46	Discovery of Potential Sorbitol Dehydrogenase Inhibitors from Virtual Screening. Medicinal Chemistry, 2006, 2, 239-242.	1.5	0
47	Time-Resolved Crystallography. Crystals, 2022, 12, 561.	2.2	0