

# Florian S N Dworkowski

## List of Publications by Year in descending order

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28  
papers

1,034  
citations

567281

15  
h-index

501196

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Serial millisecond crystallography for routine room-temperature structure determination at synchrotrons. <i>Nature Communications</i> , 2017, 8, 542.	12.8	203
2	Room-temperature serial crystallography at synchrotron X-ray sources using slowly flowing free-standing high-viscosity microstreams. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 387-397.	2.5	176
3	Proton uptake mechanism in bacteriorhodopsin captured by serial synchrotron crystallography. <i>Science</i> , 2019, 365, 61-65.	12.6	117
4	Femtosecond-to-millisecond structural changes in a light-driven sodium pump. <i>Nature</i> , 2020, 583, 314-318.	27.8	115
5	Dynamics and mechanism of a light-driven chloride pump. <i>Science</i> , 2022, 375, 845-851.	12.6	43
6	Crystal structure of the ternary FimCâ€“FimF<sub>t</sub>â€“FimD<sub>N</sub> complex indicates conserved pilus chaperoneâ€“subunit complex recognition by the usher FimD. <i>FEBS Letters</i> , 2008, 582, 651-655.	2.8	42
7	Radiation damage in room-temperature data acquisition with the PILATUS 6M pixel detector. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 318-328.	2.4	35
8	Enzyme catalysis captured using multiple structures from one crystal at varying temperatures. <i>IUCr</i> , 2018, 5, 283-292.	2.2	26
9	Photoreduction and validation of haemâ€“ligand intermediate states in protein crystals by<i> in situ</i> single-crystal spectroscopy and diffraction. <i>IUCr</i> , 2017, 4, 263-270.	2.2	25
10	Advances in long-wavelength native phasing at X-ray free-electron lasers. <i>IUCr</i> , 2020, 7, 965-975.	2.2	25
11	Serial Femtosecond Zero Dose Crystallography Captures a Waterâ€“Free Distal Heme Site in a Dyeâ€“Decolorising Peroxidase to Reveal a Catalytic Role for an Arginine in Fe<sup>IV</sup>=O Formation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21656-21662.	13.8	24
12	D3, the new diffractometer for the macromolecular crystallography beamlines of the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 340-351.	2.4	23
13	Fingerprinting redox and ligand states in haemprotein crystal structures using resonance Raman spectroscopy. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1289-1296.	2.5	18
14	A new on-axis micro-spectrophotometer for combining Raman, fluorescence and UV/Vis absorption spectroscopy with macromolecular crystallography at the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 765-776.	2.4	17
15	Conformational transitions driven by pyridoxal-5â€“phosphate uptake in the psychrophilic serine hydroxymethyltransferase from<i> P</i><i> sychromonas ingrahamii</i>. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 2831-2841.	2.6	17
16	Selective X-ray-induced NO photodissociation in haemoglobin crystals: evidence from a Raman-assisted crystallographic study. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 137-140.	2.5	15
17	Human Cellular Retinaldehyde-Binding Protein Has Secondary Thermal 9-<i> cis</i>-Retinal Isomerase Activity. <i>Journal of the American Chemical Society</i> , 2014, 136, 137-146.	13.7	15
18	Importance in Catalysis of the 6-Phosphate-binding Site of 6-Phosphogluconate in Sheep Liver 6-Phosphogluconate Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2006, 281, 25568-25576.	3.4	13

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19	Challenges and solutions for the analysis of <i>in situ</i> , <i>in crystallo</i> micro-spectrophotometric data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 27-35.	2.5	13
20	Engineering proximal vs. distal heme-NO coordination via dinitrosyl dynamics: implications for NO sensor design. <i>Chemical Science</i> , 2017, 8, 1986-1994.	7.4	13
21	A subtle structural change in the distal haem pocket has a remarkable effect on tuning hydrogen peroxide reactivity in dye decolourising peroxidases from <i>Streptomyces lividans</i> . <i>Dalton Transactions</i> , 2020, 49, 1620-1636.	3.3	13
22	Pink-beam serial femtosecond crystallography for accurate structure-factor determination at an X-ray free-electron laser. <i>IUCr</i> , 2021, 8, 905-920.	2.2	11
23	Serial Millisecond Crystallography of Membrane Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2016, 922, 137-149.	1.6	9
24	Structural basis of the radical pair state in photolyases and cryptochromes. <i>Chemical Communications</i> , 2022, 58, 4889-4892.	4.1	9
25	High-intensity x-ray microbeam for macromolecular crystallography using silicon kinoform diffractive lenses. <i>Applied Optics</i> , 2018, 57, 9032.	1.8	5
26	Serial Femtosecond Zero Dose Crystallography Captures a Water-Free Distal Heme Site in a Dye-Decolorising Peroxidase to Reveal a Catalytic Role for an Arginine in Fe <sup>IV</sup> =O Formation. <i>Angewandte Chemie</i> , 2020, 132, 21840-21846.	2.0	4
27	Specific visualization of precipitated cerium by energy-filtered transmission electron microscopy for detection of alkaline phosphatase in immunoenzymatic double labeling of tyrosine hydroxylase and serotonin in the rat olfactory bulb. <i>Histochemistry and Cell Biology</i> , 2002, 118, 459-472.	1.7	3
28	Hydrogen bonding of the dissociated histidine ligand is not required for formation of a proximal NO adduct in cytochrome c <sup>TM</sup> . <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 949-956.	2.6	2