

Benedikt J Daurer

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

760
citations

759233

12
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>SHARP</i>: a distributed GPU-based ptychographic solver. Journal of Applied Crystallography, 2016, 49, 1245-1252.	4.5	110
2	Correlations in Scattered X-Ray Laser Pulses Reveal Nanoscale Structural Features of Viruses. Physical Review Letters, 2017, 119, 158102.	7.8	90
3	Coherent diffraction of single Rice Dwarf virus particles using hard X-rays at the Linac Coherent Light Source. Scientific Data, 2016, 3, 160064.	5.3	64
4	Experimental strategies for imaging bioparticles with femtosecond hard X-ray pulses. IUCr, 2017, 4, 251-262.	2.2	63
5	Femtosecond X-ray Fourier holography imaging of free-flying nanoparticles. Nature Photonics, 2018, 12, 150-153.	31.4	58
6	Megahertz single-particle imaging at the European XFEL. Communications Physics, 2020, 3, .	5.3	58
7	Coherent soft X-ray diffraction imaging of coliphage PR772 at the Linac coherent light source. Scientific Data, 2017, 4, 170079.	5.3	54
8	Electrospray sample injection for single-particle imaging with x-ray lasers. Science Advances, 2019, 5, eaav8801.	10.3	49
9	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. Optica, 2021, 8, 15.	9.3	48
10	Considerations for three-dimensional image reconstruction from experimental data in coherent diffractive imaging. IUCr, 2018, 5, 531-541.	2.2	40
11	<i>Hummingbird</i>: monitoring and analyzing flash X-ray imaging experiments in real time. Journal of Applied Crystallography, 2016, 49, 1042-1047.	4.5	29
12	The role of transient resonances for ultra-fast imaging of single sucrose nanoclusters. Nature Communications, 2020, 11, 167.	12.8	27
13	Pulse-to-pulse wavefront sensing at free-electron lasers using ptychography. Journal of Applied Crystallography, 2020, 53, 949-956.	4.5	14
14	Ptychographic wavefront characterization for single-particle imaging at x-ray lasers. Optica, 2021, 8, 551.	9.3	12
15	Real-time data-intensive computing. AIP Conference Proceedings, 2016, , .	0.4	10
16	Nanosurveyor: a framework for real-time data processing. Advanced Structural and Chemical Imaging, 2017, 3, 7.	4.0	9
17	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging. IUCr, 2022, 9, 204-214.	2.2	9
18	Diffraction data from aerosolized Coliphage PR772 virus particles imaged with the Linac Coherent Light Source. Scientific Data, 2020, 7, 404.	5.3	6