

M Marvin Seibert

List of Publications by Year in descending order

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51
papers

10,508
citations

87888

38
h-index

168389

53
g-index

55
all docs

55
docs citations

55
times ranked

6891
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond X-ray protein nanocrystallography. <i>Nature</i> , 2011, 470, 73-77.	27.8	1,771
2	Femtosecond diffractive imaging with a soft-X-ray free-electron laser. <i>Nature Physics</i> , 2006, 2, 839-843.	16.7	910
3	Single mimivirus particles intercepted and imaged with an X-ray laser. <i>Nature</i> , 2011, 470, 78-81.	27.8	790
4	High-Resolution Protein Structure Determination by Serial Femtosecond Crystallography. <i>Science</i> , 2012, 337, 362-364.	12.6	758
5	Lipidic cubic phase injector facilitates membrane protein serial femtosecond crystallography. <i>Nature Communications</i> , 2014, 5, 3309.	12.8	505
6	Serial Femtosecond Crystallography of G Protein-Coupled Receptors. <i>Science</i> , 2013, 342, 1521-1524.	12.6	424
7	Natively Inhibited <i>Trypanosoma brucei</i> Cathepsin B Structure Determined by Using an X-ray Laser. <i>Science</i> , 2013, 339, 227-230.	12.6	393
8	Simultaneous Femtosecond X-ray Spectroscopy and Diffraction of Photosystem II at Room Temperature. <i>Science</i> , 2013, 340, 491-495.	12.6	378
9	Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. <i>Nature Photonics</i> , 2012, 6, 35-40.	31.4	292
10	Three-Dimensional Reconstruction of the Giant Mimivirus Particle with an X-Ray Free-Electron Laser. <i>Physical Review Letters</i> , 2015, 114, 098102.	7.8	284
11	Femtosecond time-delay X-ray holography. <i>Nature</i> , 2007, 448, 676-679.	27.8	238
12	Single Particle X-ray Diffractive Imaging. <i>Nano Letters</i> , 2008, 8, 310-316.	9.1	229
13	Ultrafast single-shot diffraction imaging of nanoscale dynamics. <i>Nature Photonics</i> , 2008, 2, 415-419.	31.4	221
14	Time-resolved protein nanocrystallography using an X-ray free-electron laser. <i>Optics Express</i> , 2012, 20, 2706.	3.4	219
15	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. <i>Nature Communications</i> , 2014, 5, 4371.	12.8	206
16	In vivo protein crystallization opens new routes in structural biology. <i>Nature Methods</i> , 2012, 9, 259-262.	19.0	193
17	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. <i>Nature Methods</i> , 2014, 11, 923-926.	19.0	173
18	Fixed-target protein serial microcrystallography with an x-ray free electron laser. <i>Scientific Reports</i> , 2014, 4, 6026.	3.3	169

#	ARTICLE	IF	CITATIONS
19	Nanoflow electrospinning serial femtosecond crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1584-1587.	2.5	167
20	Reproducible Polypeptide Folding and Structure Prediction using Molecular Dynamics Simulations. <i>Journal of Molecular Biology</i> , 2005, 354, 173-183.	4.2	165
21	Radiation damage in protein serial femtosecond crystallography using an x-ray free-electron laser. <i>Physical Review B</i> , 2011, 84, 214111.	3.2	156
22	High-throughput imaging of heterogeneous cell organelles with an X-ray laser. <i>Nature Photonics</i> , 2014, 8, 943-949.	31.4	156
23	Imaging single cells in a beam of live cyanobacteria with an X-ray laser. <i>Nature Communications</i> , 2015, 6, 5704.	12.8	156
24	The Coherent X-ray Imaging instrument at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 514-519.	2.4	152
25	Megahertz serial crystallography. <i>Nature Communications</i> , 2018, 9, 4025.	12.8	147
26	Room temperature femtosecond X-ray diffraction of photosystem II microcrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9721-9726.	7.1	144
27	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. <i>Nature Methods</i> , 2014, 11, 545-548.	19.0	140
28	Lipidic phase membrane protein serial femtosecond crystallography. <i>Nature Methods</i> , 2012, 9, 263-265.	19.0	135
29	Energy-dispersive X-ray emission spectroscopy using an X-ray free-electron laser in a shot-by-shot mode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19103-19107.	7.1	113
30	Protein Folding Kinetics and Thermodynamics from Atomistic Simulations. <i>Physical Review Letters</i> , 2006, 96, 238102.	7.8	85
31	Femtosecond X-ray diffraction from two-dimensional protein crystals. <i>IUCr</i> , 2014, 1, 95-100.	2.2	78
32	Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography. <i>Nature Communications</i> , 2013, 4, 2911.	12.8	74
33	Coherent diffraction of single Rice Dwarf virus particles using hard X-rays at the Linac Coherent Light Source. <i>Scientific Data</i> , 2016, 3, 160064.	5.3	64
34	Experimental strategies for imaging bioparticles with femtosecond hard X-ray pulses. <i>IUCr</i> , 2017, 4, 251-262.	2.2	63
35	Sacrificial Tamper Slows Down Sample Explosion in FLASH Diffraction Experiments. <i>Physical Review Letters</i> , 2010, 104, 064801.	7.8	59
36	Electrospray sample injection for single-particle imaging with x-ray lasers. <i>Science Advances</i> , 2019, 5, eaav8801.	10.3	49

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37	Femtosecond diffractive imaging of biological cells. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 194015.	1.5	41
38	Aerosol Imaging with a Soft X-Ray Free Electron Laser. <i>Aerosol Science and Technology</i> , 2010, 44, i-vi.	3.1	40
39	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. <i>Nature Communications</i> , 2015, 6, 10140.	12.8	30
40	X-ray laser-induced electron dynamics observed by femtosecond diffraction from nanocrystals of Buckminsterfullerene. <i>Science Advances</i> , 2016, 2, e1601186.	10.3	20
41	Single-shot diffraction data from the Mimivirus particle using an X-ray free-electron laser. <i>Scientific Data</i> , 2016, 3, 160060.	5.3	18
42	Characterization and use of the spent beam for serial operation of LCLS. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 634-643.	2.4	17
43	Ultrafast soft X-ray scattering and reference-enhanced diffractive imaging of weakly scattering nanoparticles. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2008, 166-167, 65-73.	1.7	16
44	Explosion dynamics of sucrose nanospheres monitored by time of flight spectrometry and coherent diffractive imaging at the split-and-delay beam line of the FLASH soft X-ray laser. <i>Optics Express</i> , 2014, 22, 28914.	3.4	13
45	Single particle imaging with soft x-rays at the Linac Coherent Light Source. , 2011, , .		12
46	A data set from flash X-ray imaging of carboxysomes. <i>Scientific Data</i> , 2016, 3, 160061.	5.3	11
47	Open data set of live cyanobacterial cells imaged using an X-ray laser. <i>Scientific Data</i> , 2016, 3, 160058.	5.3	7
48	Expression, purification and crystallization of CTB-MPR, a candidate mucosal vaccine component against HIV-1. <i>IUCr</i> , 2014, 1, 305-317.	2.2	6
49	Diffraction data from aerosolized Coliphage PR772 virus particles imaged with the Linac Coherent Light Source. <i>Scientific Data</i> , 2020, 7, 404.	5.3	6
50	Measurements of Long-range Electronic Correlations During Femtosecond Diffraction Experiments Performed on Nanocrystals of Buckminsterfullerene. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
51	Protein Folding Properties from Molecular Dynamics Simulations. <i>Lecture Notes in Computer Science</i> , 2007, , 109-115.	1.3	3