

# Johan Bielecki

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,847  
citations

236912

25  
h-index

265191

42  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2466  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and magnetic properties of isovalently substituted multiferroic BiFeO <sub>3</sub> : Insights from Raman spectroscopy. Physical Review B, 2012, 86, .	3.2	175
2	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
3	Time-resolved serial femtosecond crystallography at the European XFEL. Nature Methods, 2020, 17, 73-78.	19.0	110
4	Correlations in Scattered X-Ray Laser Pulses Reveal Nanoscale Structural Features of Viruses. Physical Review Letters, 2017, 119, 158102.	7.8	90
5	The Single Particles, Clusters and Biomolecules and Serial Femtosecond Crystallography instrument of the European XFEL: initial installation. Journal of Synchrotron Radiation, 2019, 26, 660-676.	2.4	90
6	Megahertz data collection from protein microcrystals at an X-ray free-electron laser. Nature Communications, 2018, 9, 3487.	12.8	89
7	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
8	Single-particle imaging without symmetry constraints at an X-ray free-electron laser. IUCr, 2018, 5, 727-736.	2.2	63
9	Experimental strategies for imaging bioparticles with femtosecond hard X-ray pulses. IUCr, 2017, 4, 251-262.	2.2	63
10	Transferring the entatic-state principle to copper photochemistry. Nature Chemistry, 2018, 10, 355-362.	13.6	59
11	Femtosecond X-ray Fourier holography imaging of free-flying nanoparticles. Nature Photonics, 2018, 12, 150-153.	31.4	58
12	Megahertz single-particle imaging at the European XFEL. Communications Physics, 2020, 3, .	5.3	58
13	Coherent soft X-ray diffraction imaging of coliphage PR772 at the Linac coherent light source. Scientific Data, 2017, 4, 170079.	5.3	54
14	A statistical model of hydrogen bond networks in liquid alcohols. Journal of Chemical Physics, 2012, 136, 094514.	3.0	49
15	Electrospray sample injection for single-particle imaging with x-ray lasers. Science Advances, 2019, 5, eaav8801.	10.3	49
16	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. Optica, 2021, 8, 15.	9.3	48
17	Membrane protein megahertz crystallography at the European XFEL. Nature Communications, 2019, 10, 5021.	12.8	47
18	Automated identification and classification of single particle serial femtosecond X-ray diffraction data. Optics Express, 2014, 22, 2497.	3.4	45

#	ARTICLE	IF	CITATIONS
19	Considerations for three-dimensional image reconstruction from experimental data in coherent diffractive imaging. IUCrJ, 2018, 5, 531-541.	2.2	40
20	Templated Growth of Covalently Bonded Three-Dimensional Carbon Nanotube Networks Originated from Graphene. Advanced Materials, 2012, 24, 1576-1581.	21.0	37
21	Short-range structure of the brownmillerite-type oxide $\text{Ba}_2\text{In}_2\text{O}_5$ and its hydrated proton-conducting form $\text{BaInO}_3\text{H}$ . Journal of Materials Chemistry A, 2014, 2, 16915-16924.	10.3	37
22	Perspectives on single particle imaging with x rays at the advent of high repetition rate x-ray free electron laser sources. Structural Dynamics, 2020, 7, 040901.	2.3	33
23	Rayleigh-scattering microscopy for tracking and sizing nanoparticles in focused aerosol beams. IUCrJ, 2018, 5, 673-680.	2.2	31
24	Segmented flow generator for serial crystallography at the European X-ray free electron laser. Nature Communications, 2020, 11, 4511.	12.8	27
25	The role of transient resonances for ultra-fast imaging of single sucrose nanoclusters. Nature Communications, 2020, 11, 167.	12.8	27
26	Formation of Bone-like Nanocrystalline Apatite Using Self-Assembled Liquid Crystals. Chemistry of Materials, 2012, 24, 892-902.	6.7	26
27	Structure and dehydration mechanism of the proton conducting oxide $\text{Ba}_2\text{In}_2\text{O}_5(\text{H}_2\text{O})_x$ . Journal of Materials Chemistry A, 2016, 4, 1224-1232.	10.3	24
28	3D printed devices and infrastructure for liquid sample delivery at the European XFEL. Journal of Synchrotron Radiation, 2022, 29, 331-346.	2.4	22
29	A versatile liquid-jet setup for the European XFEL. Journal of Synchrotron Radiation, 2019, 26, 339-345.	2.4	20
30	Selective growth of double-walled carbon nanotubes on gold films. Materials Letters, 2012, 72, 78-80.	2.6	19
31	High Pressure Crystal and Magnetic Phase Transitions in Multiferroic $\text{Bi}_{0.9}\text{La}_{0.1}\text{FeO}_3$ . Chemistry of Materials, 2014, 26, 1180-1186.	6.7	19
32	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. Optics Express, 2014, 22, 28914.	3.4	13
33	The effect of alendronate on biomineralization at the bone/implant interface. Journal of Biomedical Materials Research - Part A, 2016, 104, 620-629.	4.0	13
34	Ptychographic wavefront characterization for single-particle imaging at x-ray lasers. Optica, 2021, 8, 551.	9.3	12
35	Co-flow injection for serial crystallography at X-ray free-electron lasers. Journal of Applied Crystallography, 2022, 55, 1-13.	4.5	12
36	U-Duality and the compactified Gauss-Bonnet term. Journal of High Energy Physics, 2008, 2008, 048-048.	4.7	11

#	ARTICLE	IF	CITATIONS
37	A data set from flash X-ray imaging of carboxysomes. Scientific Data, 2016, 3, 160061.	5.3	11
38	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging. IUCr, 2022, 9, 204-214.	2.2	9
39	Open data set of live cyanobacterial cells imaged using an X-ray laser. Scientific Data, 2016, 3, 160058.	5.3	7
40	Diffraction data from aerosolized Coliphage PR772 virus particles imaged with the Linac Coherent Light Source. Scientific Data, 2020, 7, 404.	5.3	6
41	MHz data collection of a microcrystalline mixture of different jack bean proteins. Scientific Data, 2019, 6, 18.	5.3	5
42	Shock Damage Analysis in Serial Femtosecond Crystallography Data Collected at MHz X-ray Free-Electron Lasers. Crystals, 2020, 10, 1145.	2.2	5
43	A multi-million image Serial Femtosecond Crystallography dataset collected at the European XFEL. Scientific Data, 2022, 9, 161.	5.3	5
44	Shot-to-shot two-dimensional photon intensity diagnostics within megahertz pulse-trains at the European XFEL. Journal of Synchrotron Radiation, 2022, 29, 939-946.	2.4	3
45	Characterization of CNT Enhanced Conductive Adhesives in Terms of Thermal Conductivity. ECS Transactions, 2012, 44, 1011-1017.	0.5	2
46	A statistical approach to detect protein complexes at X-ray free-electron laser facilities. Communications Physics, 2018, 1, .	5.3	2
47	Simulations of single-particle imaging of hydrated proteins with x-ray free-electron lasers. , 2017, , .		0