Paul Lourdu Xavier

List of Publications by Year in Descending Order

30 papers	2,180 citations	21 h-index	32 g-index
32 ext. papers	2,495 ext. citations	9.9 avg, IF	4.43 L-index

#	Paper	IF	Citations
30	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging.. *IUCrJ*, **2022**, 9, 204-214	4.7	0
29	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. *Optica*, **2021**, 8, 15	8.6	19
28	X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. *Science*, **2021**, 372, 642-646	33.3	95
27	Megahertz single-particle imaging at the European XFEL. *Communications Physics*, **2020**, 3,	5.4	23
26	An advanced workflow for single-particle imaging with the limited data at an X-ray free-electron laser. *IUCrJ*, **2020**, 7, 1102-1113	4.7	6
25	Diffraction data from aerosolized Coliphage PR772 virus particles imaged with the Linac Coherent Light Source. *Scientific Data*, **2020**, 7, 404	8.2	1
24	Low-signal limit of X-ray single particle diffractive imaging. *Optics Express*, **2019**, 27, 37816-37833	3.3	21
23	Evaluation of serial crystallographic structure determination within megahertz pulse trains. *Structural Dynamics*, **2019**, 6, 064702	3.2	14
22	Femtosecond X-ray diffraction from an aerosolized beam of protein nanocrystals. *Journal of Applied Crystallography*, **2018**, 51, 133-139	3.8	16
21	DNA-based construction at the nanoscale: emerging trends and applications. *Nanotechnology*, **2018** , 29, 062001	3.4	32
20	Megahertz serial crystallography. *Nature Communications*, **2018**, 9, 4025	17.4	104
19	Double-flow focused liquid injector for efficient serial femtosecond crystallography. *Scientific Reports*, **2017**, 7, 44628	4.9	62
18	Correlations in Scattered X-Ray Laser Pulses Reveal Nanoscale Structural Features of Viruses. *Physical Review Letters*, **2017**, 119, 158102	7.4	67
17	Coherent soft X-ray diffraction imaging of coliphage PR772 at the Linac coherent light source. *Scientific Data*, **2017**, 4, 170079	8.2	41
16	Analysis of XFEL serial diffraction data from individual crystalline fibrils. *IUCrJ*, **2017**, 4, 795-811	4.7	12
15	Macromolecular diffractive imaging using imperfect crystals. *Nature*, **2016**, 530, 202-6	50.4	101
14	Coherent diffraction of single Rice Dwarf virus particles using hard X-rays at the Linac Coherent Light Source. *Scientific Data*, **2016**, 3, 160064	8.2	53

13	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. *Science*, **2016**, 352, 725-9	33.3	276
12	Simple convergent-nozzle aerosol injector for single-particle diffractive imaging with X-ray free-electron lasers. *Structural Dynamics*, **2015**, 2, 041717	3.2	20
11	Luminescent iron clusters in solution. *Nanoscale*, **2014**, 6, 1848-54	7.7	22
10	Protein-encapsulated gold cluster aggregates: the case of lysozyme. *Nanoscale*, **2013**, 5, 2009-16	7.7	73
9	Unprecedented inhibition of tubulin polymerization directed by gold nanoparticles inducing cell cycle arrest and apoptosis. *Nanoscale*, **2013**, 5, 4476-89	7.7	83
8	Emergence of Multicolor Photoluminescence in La0.67Sr0.33MnO3 Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 25623-25629	3.8	32
7	Protein-directed synthesis of NIR-emitting, tunable HgS quantum dots and their applications in metal-ion sensing. *Small*, **2012**, 8, 3175-84	11	73
6	Luminescent, bimetallic AuAg alloy quantum clusters in protein templates. *Nanoscale*, **2012**, 4, 4255-62	7.7	106
5	Understanding the evolution of luminescent gold quantum clusters in protein templates. *ACS Nano*, **2011**, 5, 8816-27	16.7	203
4	Transparent, luminescent, antibacterial and patternable film forming composites of graphene oxide/reduced graphene oxide. *ACS Applied Materials & Interfaces*, **2011**, 3, 2643-54	9.5	100
3	Copper quantum clusters in protein matrix: potential sensor of Pb2+ ion. *Analytical Chemistry*, **2011**, 83, 9676-80	7.8	284
2	Size evolution of luminescent lactoferrin protected gold clusters. *Journal of Biomedical Nanotechnology*, **2011**, 7, 70-1	4	3
1	Luminescent quantum clusters of gold in transferrin family protein, lactoferrin exhibiting FRET. *Nanoscale*, **2010**, 2, 2769-76	7.7	238