Francesco Stellato

List of Publications by Year
in descending order

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44	4,294	304368	264894
papers	citations	22 h-index	42 g-index

44	44	44	4059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Resolution Protein Structure Determination by Serial Femtosecond Crystallography. Science, 2012, 337, 362-364.	6.0	758
2	Serial time-resolved crystallography of photosystem II using a femtosecond X-ray laser. Nature, 2014, 513, 261-265.	13.7	403
3	Natively Inhibited Trypanosoma brucei Cathepsin B Structure Determined by Using an X-ray Laser. Science, 2013, 339, 227-230.	6.0	393
4	Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. Nature Photonics, 2012, 6, 35-40.	15.6	292
5	Room-temperature macromolecular serial crystallography using synchrotron radiation. IUCrJ, 2014, 1, 204-212.	1.0	221
6	Time-resolved protein nanocrystallography using an X-ray free-electron laser. Optics Express, 2012, 20, 2706.	1.7	219
7	Serial crystallography onin vivogrown microcrystals using synchrotron radiation. IUCrJ, 2014, 1, 87-94.	1.0	204
8	In vivo protein crystallization opens new routes in structural biology. Nature Methods, 2012, 9, 259-262.	9.0	193
9	Identifying the Minimal Copper- and Zinc-binding Site Sequence in Amyloid-Î² Peptides. Journal of Biological Chemistry, 2008, 283, 10784-10792.	1.6	184
10	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. Nature Methods, 2014, 11, 923-926.	9.0	173
11	Radiation damage in protein serial femtosecond crystallography using an x-ray free-electron laser. Physical Review B, 2011, 84, 214111.	1.1	156
12	High-throughput imaging of heterogeneous cell organelles with an X-ray laser. Nature Photonics, 2014, 8, 943-949.	15.6	156
13	Imaging single cells in a beam of live cyanobacteria with an X-ray laser. Nature Communications, 2015, 6, 5704.	5.8	156
14	Lipidic phase membrane protein serial femtosecond crystallography. Nature Methods, 2012, 9, 263-265.	9.0	135
15	Crystallographic data processing for free-electron laser sources. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1231-1240.	2.5	122
16	Metal binding in amyloid Î²-peptides shows intra- and inter-peptide coordination modes. European Biophysics Journal, 2006, 35, 340-351.	1.2	104
17	Atomic structure of granulin determined from native nanocrystalline granulovirus using an X-ray free-electron laser. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2247-2252.	3.3	65
18	Femtosecond free-electron laser x-ray diffraction data sets for algorithm development. Optics Express, 2012, 20, 4149.	1.7	56

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19	Zinc modulates copper coordination mode in prion protein octa-repeat subdomains. European Biophysics Journal, 2011, 40, 1259-1270.	1.2	36
20	Zn induced structural aggregation patterns of Î²-amyloid peptides by first-principle simulations and XAS measurements. Metallomics, 2012, 4, 156-165.	1.0	33
21	Identifying the structure of the active sites of human recombinant prolidase. European Biophysics Journal, 2010, 39, 935-945.	1.2	30
22	In celluloserial crystallography of alcohol oxidase crystals inside yeast cells. IUCrJ, 2016, 3, 88-95.	1.0	23
23	Cu(II)â€“Zn(II) Cross-Modulation in Amyloidâ€“Beta Peptide Binding: An X-ray Absorption Spectroscopy Study. Journal of Physical Chemistry B, 2015, 119, 15813-15820.	1.2	16
24	Copperâ€“zinc cross-modulation in prion protein binding. European Biophysics Journal, 2014, 43, 631-642.	1.2	15
25	SARS-CoV-2 Virion Stabilization by Zn Binding. Frontiers in Molecular Biosciences, 2020, 7, 222.	1.6	14
26	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.	1.7	13
27	Flowâ€aligned, singleâ€shot fiber diffraction using a femtosecond Xâ€ray freeâ€electron laser. Cytoskeleton, 2017, 74, 472-481.	1.0	12
28	The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. Condensed Matter, 2019, 4, 30.	0.8	12
29	Conformation sequence recovery of a non-periodic object from a diffraction-before-destruction experiment. Optics Express, 2014, 22, 8085.	1.7	11
30	A data set from flash X-ray imaging of carboxysomes. Scientific Data, 2016, 3, 160061.	2.4	11
31	Dealing with Cu reduction in X-ray absorption spectroscopy experiments. Metallomics, 2019, 11, 1401-1410.	1.0	11
32	Znâ€Induced Interactions Between SARSâ€CoVâ€2 orf7a and BST2/Tetherin. ChemistryOpen, 2021, 10, 1133-1141.	1.9	11
33	Multi-scale theoretical approach to X-ray absorption spectra in disordered systems: an application to the study of Zn(ii) in water. Physical Chemistry Chemical Physics, 2018, 20, 24775-24782.	1.3	10
34	An XAS study of the sulfur environment in human neuromelanin and its synthetic analogs. European Biophysics Journal, 2010, 39, 959-970.	1.2	9
35	Open data set of live cyanobacterial cells imaged using an X-ray laser. Scientific Data, 2016, 3, 160058.	2.4	7
36	Expression, purification and crystallization of CTB-MPR, a candidate mucosal vaccine component against HIV-1. IUCrJ, 2014, 1, 305-317.	1.0	6

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37	X-Ray Absorption Spectroscopy Measurements of Cu-ProIAPP Complexes at Physiological Concentrations. Condensed Matter, 2019, 4, 13.	0.8	6
38	ARIAâ€"A VUV Beamline for EuPRAXIA@SPARC_LAB. Condensed Matter, 2022, 7, 11.	0.8	5
39	Plasma-Generated X-ray Pulses: Betatron Radiation Opportunities at EuPRAXIA@SPARC_LAB. Condensed Matter, 2022, 7, 23.	0.8	5
40	Design study of a photon beamline for a soft X-ray FEL driven by high gradient acceleration at EuPRAXIA@SPARC_LAB. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 909, 294-297.	0.7	3
41	Cu(II)â€"Glycerolâ€"N-Ethylmorpholine Complex Stability Revealed by X-ray Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 1483-1492.	1.5	3
42	Modelling Protein Plasticity: The Example of Frataxin and Its Variants. Molecules, 2022, 27, 1955.	1.7	2
43	Cu Involvement In Prion Oligopeptide Stability: Experiments And Numerical Simulations. Biophysical Journal, 2009, 96, 590a.	0.2	0
44	Is styrene competitive for dopamine receptor binding?. Biomolecular Concepts, 2022, 13, 200-206.	1.0	0