

Richard Gildea

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

26,249
citations

430874

18
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

24369
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>OLEX2</i> : a complete structure solution, refinement and analysis program. <i>Journal of Applied Crystallography</i> , 2009, 42, 339-341.	4.5	21,944
2	The anatomy of a comprehensive constrained, restrained refinement program for the modern computing environment – <i>Olex2</i> dissected. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, 59-75.	0.1	1,141
3	<i>DIALS</i> : implementation and evaluation of a new integration package. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 85-97.	2.3	811
4	<i>iotbx.cif</i> : a comprehensive CIF toolbox. <i>Journal of Applied Crystallography</i> , 2011, 44, 1259-1263.	4.5	487
5	Simultaneous Femtosecond X-ray Spectroscopy and Diffraction of Photosystem II at Room Temperature. <i>Science</i> , 2013, 340, 491-495.	12.6	378
6	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. <i>Nature Communications</i> , 2014, 5, 4371.	12.8	206
7	Nanoflow electrospinning serial femtosecond crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1584-1587.	2.5	167
8	Diffraction-geometry refinement in the <i>DIALS</i> framework. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 558-575.	2.3	158
9	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
10	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. <i>Nature Methods</i> , 2014, 11, 545-548.	19.0	140
11	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
12	Scaling diffraction data in the <i>DIALS</i> software package: algorithms and new approaches for multi-crystal scaling. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 385-399.	2.3	107
13	Luminescent Iridium(III) Complexes with N ⁺ C ⁺ N-Coordinated Terdentate Ligands: Dual Tuning of the Emission Energy and Application to Organic Light-Emitting Devices. <i>Inorganic Chemistry</i> , 2012, 51, 3813-3826.	4.0	93
14	New methods for indexing multi-lattice diffraction data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2652-2666.	2.5	56
15	Structure of CPV17 polyhedrin determined by the improved analysis of serial femtosecond crystallographic data. <i>Nature Communications</i> , 2015, 6, 6435.	12.8	56
16	<i>DIALS</i> as a toolkit. <i>Protein Science</i> , 2022, 31, 232-250.	7.6	55
17	Improving signal strength in serial crystallography with <i>DIALS</i> geometry refinement. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 877-894.	2.3	49
18	Robust background modelling in <i>DIALS</i> . <i>Journal of Applied Crystallography</i> , 2016, 49, 1912-1921.	4.5	44

#	ARTICLE	IF	CITATIONS
19	<i>xia</i> ² . <i>multiplex</i> : a multi-crystal data-analysis pipeline. Acta Crystallographica Section D: Structural Biology, 2022, 78, 752-769.	2.3	25
20	Determination of Patterson group symmetry from sparse multi-crystal data sets in the presence of an indexing ambiguity. Acta Crystallographica Section D: Structural Biology, 2018, 74, 405-410.	2.3	24
21	Flexible torsion-angle noncrystallographic symmetry restraints for improved macromolecular structure refinement. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 1346-1356.	2.5	19
22	How best to use photons. Acta Crystallographica Section D: Structural Biology, 2019, 75, 242-261.	2.3	16
23	Background modelling of diffraction data in the presence of ice rings. IUCr, 2017, 4, 626-638.	2.2	14
24	An acoustic on-chip goniometer for room temperature macromolecular crystallography. Lab on A Chip, 2017, 17, 4225-4230.	6.0	1