

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	<sc>DIALS</sc> as a toolkit. Protein Science, 2022, 31, 232-250.	7.6	55
2	<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
3	Scaling diffraction data in the <i>DIALS</i> software package: algorithms and new approaches for multi-crystal scaling. Acta Crystallographica Section D: Structural Biology, 2020, 76, 385-399.	2.3	107
4	How best to use photons. Acta Crystallographica Section D: Structural Biology, 2019, 75, 242-261.	2.3	16
5	Improving signal strength in serial crystallography with <i>DIALS</i> geometry refinement. Acta Crystallographica Section D: Structural Biology, 2018, 74, 877-894.	2.3	49
6	<i>DIALS</i>: implementation and evaluation of a new integration package. Acta Crystallographica Section D: Structural Biology, 2018, 74, 85-97.	2.3	811
7	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
8	An acoustic on-chip goniometer for room temperature macromolecular crystallography. Lab on A Chip, 2017, 17, 4225-4230.	6.0	1
9	Background modelling of diffraction data in the presence of ice rings. IUCrJ, 2017, 4, 626-638.	2.2	14
10	Robust background modelling in <i>DIALS</i>. Journal of Applied Crystallography, 2016, 49, 1912-1921.	4.5	44
11	Diffraction-geometry refinement in the <i>DIALS</i> framework. Acta Crystallographica Section D: Structural Biology, 2016, 72, 558-575.	2.3	158
12	Structure of CPV17 polyhedrin determined by the improved analysis of serial femtosecond crystallographic data. Nature Communications, 2015, 6, 6435.	12.8	56
13	The anatomy of a comprehensive constrained, restrained refinement program for the modern computing environment “<i>Olex2</i> dissected. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 59-75.	0.1	1,141
14	New methods for indexing multi-lattice diffraction data. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2652-2666.	2.5	56
15	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. Nature Methods, 2014, 11, 545-548.	19.0	140
16	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. Nature Communications, 2014, 5, 4371.	12.8	206
17	Flexible torsion-angle noncrystallographic symmetry restraints for improved macromolecular structure refinement. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 1346-1356.	2.5	19
18	Simultaneous Femtosecond X-ray Spectroscopy and Diffraction of Photosystem II at Room Temperature. Science, 2013, 340, 491-495.	12.6	378

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19	Energy-dispersive X-ray emission spectroscopy using an X-ray free-electron laser in a shot-by-shot mode. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19103-19107.	7.1	113
20	Nanoflow electrospinning serial femtosecond crystallography. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1584-1587.	2.5	167
21	Luminescent Iridium(III) Complexes with N ^{âˆš} C ^{âˆš} N-Coordinated Terdentate Ligands: Dual Tuning of the Emission Energy and Application to Organic Light-Emitting Devices. Inorganic Chemistry, 2012, 51, 3813-3826.	4.0	93
22	Room temperature femtosecond X-ray diffraction of photosystem II microcrystals. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9721-9726.	7.1	144
23	<i>iotbx.cif</i> : a comprehensive CIF toolbox. Journal of Applied Crystallography, 2011, 44, 1259-1263.	4.5	487
24	<i>OLEX2</i> : a complete structure solution, refinement and analysis program. Journal of Applied Crystallography, 2009, 42, 339-341.	4.5	21,944