Gergely Katona

List of Publications by Year
in descending order

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81	3,742	126907	149698
papers	citations	33 h-index	56 g-index

88	88	88	4612
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cohesin-Mediated Chromatin Interactions and Autoimmunity. Frontiers in Immunology, 2022, 13, 840002.	4.8	5
2	Bayesian progress curve analysis of MicroScale thermophoresis data. , 2022, 1, 325-332.		2
3	Ultrafast structural changes within a photosynthetic reaction centre. Nature, 2021, 589, 310-314.	27.8	47
4	High-resolution macromolecular crystallography at the FemtoMAX beamline with time-over-threshold photon detection. Journal of Synchrotron Radiation, 2021, 28, 64-70.	2.4	0
5	POS0360â€…COMPLEX LANDSCAPE OF BIRC5/SURVIVIN GENOME BINDING IN HUMAN CD4+ T CELLS. Annals of the Rheumatic Diseases, 2021, 80, 410.2-410.	0.9	0
6	POS0397â€…AGGREGATED SURVIVIN BINDING AROUND HISTONE H3 EPIGENETIC MODIFICATIONS IN RISK LOCI ASSOCIATED WITH RHEUMATOID ARTHRITIS. Annals of the Rheumatic Diseases, 2021, 80, 428.1-428.	0.9	0
7	Estimating the probability of coincidental similarity between atomic displacement parameters with machine learning. Machine Learning: Science and Technology, 2021, 2, 035033.	5.0	1
8	Chemical Mapping Exposes the Importance of Active Site Interactions in Governing the Temperature Dependence of Enzyme Turnover. ACS Catalysis, 2021, 11, 14854-14863.	11.2	6
9	A THz transparent 3D printed microfluidic cell for small angle x-ray scattering. Review of Scientific Instruments, 2020, 91, 084101.	1.3	5
10	In cellulo crystallization of Trypanosoma brucei IMP dehydrogenase enables the identification of genuine co-factors. Nature Communications, 2020, 11, 620.	12.8	24
11	A tool for visualizing protein motions in time-resolved crystallography. Structural Dynamics, 2020, 7, 024701.	2.3	20
12	THU0037â€…SURVIVIN INHIBITS TRANSCRIPTION OF PBX1 AND SUPPORTS THE EFFECTOR PHENOTYPE OF THE MEMORY CD4 T CELLS IN RHEUMATOID ARTHRITIS. Annals of the Rheumatic Diseases, 2020, 79, 231.2-232.	0.9	0
13	Clustering of atomic displacement parameters in bovine trypsin reveals a distributed lattice of atoms with shared chemical properties. Scientific Reports, 2019, 9, 19281.	3.3	7
14	A practical guide to developing virtual and augmented reality exercises for teaching structural biology. Biochemistry and Molecular Biology Education, 2019, 47, 16-24.	1.2	50
15	Bayesian machine learning improves single-wavelength anomalous diffraction phasing. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 851-860.	0.1	11
16	AB0016â€…Chromatin localization of survivin in cd4+ t-cells of patients with rheumatoid arthritis. , 2018, , .		0
17	How can data collection affect the success of solving crystal structures using single-wavelength anomalous dispersion?. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e178-e178.	0.1	0
18	Short- and long-term structural effects of terahertz radiation on cryo-cooled bovine trypsin crystals. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e137-e137.	0.1	0

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19	Survivin in autoimmune diseases. Autoimmunity Reviews, 2017, 16, 845-855.	5.8	60
20	Bayesian Analysis of MicroScale Thermophoresis Data to Quantify Affinity of Protein:Protein Interactions with Human Survivin. Scientific Reports, 2017, 7, 16816.	3.3	7
21	Regulation of the Equilibrium between Closed and Open Conformations of Annexin A2 by N-Terminal Phosphorylation and S100A4-Binding. Structure, 2017, 25, 1195-1207.e5.	3.3	42
22	Asymmetry in serial femtosecond crystallography data. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, 93-101.	0.1	11
23	Bayesian analysis of non-thermal structural changes induced by terahertz radiation in protein crystals. , 2016, , .		0
24	Estimating the difference between structure-factor amplitudes using multivariate Bayesian inference. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 406-411.	0.1	7
25	Gram-positive bacteria are held at a distance in the colon mucus by the lectin-like protein ZG16. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13833-13838.	7.1	113
26	Structural Basis of Ribosomal S6 Kinase 1 (RSK1) Inhibition by S100B Protein. Journal of Biological Chemistry, 2016, 291, 11-27.	3.4	45
27	Terahertz radiation induces non-thermal structural changes associated with FrÃ¶hlich condensation in a protein crystal. Structural Dynamics, 2015, 2, 054702.	2.3	56
28	Conformational activation of visual rhodopsin in native disc membranes. Science Signaling, 2015, 8, ra26.	3.6	37
29	Survivin co-ordinates formation of follicular T-cells acting in synergy with Bcl-6. Oncotarget, 2015, 6, 20043-20057.	1.8	26
30	The Role of Structural Flexibility and Stability in the Interaction of Serine Proteases with their Inhibitors. Current Protein and Peptide Science, 2015, 16, 521-531.	1.4	5
31	Conformational regulation of the Câ€terminal random coil in S100A4 by Ca2+ ions. FASEB Journal, 2015, 29, 563.5.	0.5	0
32	The C-Terminal Random Coil Region Tunes the Ca2+-Binding Affinity of S100A4 through Conformational Activation. PLoS ONE, 2014, 9, e97654.	2.5	11
33	DYNLL2 Dynein Light Chain Binds to an Extended Linear Motif of Myosin 5a Tail That Has Structural Plasticity. Biochemistry, 2014, 53, 7107-7122.	2.5	15
34	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. Nature Methods, 2014, 11, 923-926.	19.0	173
35	Terahertz absorption of illuminated photosynthetic reaction center solution: a signature of photoactivation?. RSC Advances, 2014, 4, 25502-25509.	3.6	7
36	Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography. Nature Communications, 2013, 4, 2911.	12.8	74

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37	Comparison of complexes formed by a crustacean and a vertebrate trypsin with bovine pancreatic trypsin inhibitor â€“ the key to achieving extreme stability?. FEBS Journal, 2013, 280, 5750-5763.	4.7	11
38	Natively Inhibited Trypanosoma brucei Cathepsin B Structure Determined by Using an X-ray Laser. Science, 2013, 339, 227-230.	12.6	393
39	Crystal structure of the S100A4-nonmuscle myosin IIA tail fragment complex reveals an asymmetric target binding mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6048-6053.	7.1	56
40	Structural studies on the metastasis associated S100A4 using X-ray crystallography and small-angle X-ray scattering (SAXS). Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s171-s171.	0.3	0
41	Hugging Interaction: Asymmetric Binding of Metastasis Associated Protein S100A4 to Non-Muscle Myosin 2A Tail. Biophysical Journal, 2012, 102, 462a-463a.	0.5	0
42	Lipidic phase membrane protein serial femtosecond crystallography. Nature Methods, 2012, 9, 263-265.	19.0	135
43	High-Resolution Protein Structure Determination by Serial Femtosecond Crystallography. Science, 2012, 337, 362-364.	12.6	758
44	Structural Characterization of Bacterioferritin from Blastochloris viridis. PLoS ONE, 2012, 7, e46992.	2.5	11
45	Serial femtosecond crystallography using crystals grown in lipidic-sponge phases. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s30-s30.	0.3	0
46	Visualising rapid structural changes in photosynthetic reaction centres with XFEL radiation. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s12-s12.	0.3	0
47	Terahertz absorption change in photosynthetic reaction center upon photoactivation. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s146-s146.	0.3	0
48	Crystallization of the photosynthetic core complex ofBlastochloris viridis. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s262-s262.	0.3	0
49	Crystallization of bacterioferritin fromBlastochloris viridis. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s114-s114.	0.3	0
50	The Catalytic Aspartate Is Protonated in the Michaelis Complex Formed between Trypsin and an in Vitro Evolved Substrate-like Inhibitor. Journal of Biological Chemistry, 2011, 286, 3587-3596.	3.4	23
51	Time-Resolved WAXS Reveals Accelerated Conformational Changes in Iodoretinal-Substituted Proteorhodopsin. Biophysical Journal, 2011, 101, 1345-1353.	0.5	60
52	Directed Evolution Reveals the Binding Motif Preference of the LC8/DYNLL Hub Protein and Predicts Large Numbers of Novel Binders in the Human Proteome. PLoS ONE, 2011, 6, e18818.	2.5	57
53	X-ray absorption spectroscopy studies of copper site in the ubiquinol oxidase. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C516-C516.	0.3	0
54	Potential impact of an X-FEL on time-resolved studies of protein dynamics. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C91-C92.	0.3	0

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55	Time-resolved structural studies of protein reaction dynamics: a smorgasbord of X-ray approaches. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 207-219.	0.3	43
56	Rapid readout detector captures protein time-resolved WAXS. Nature Methods, 2010, 7, 775-776.	19.0	36
57	Structural Dynamics of Light-Driven Proton Pumps. Biophysical Journal, 2010, 98, 226a.	0.5	0
58	Light-Induced Structural Changes in a Photosynthetic Reaction Center Caught by Laue Diffraction. Science, 2010, 328, 630-633.	12.6	103
59	Lipidic sponge phase crystallization of photosynthetic reaction centres. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s13-s13.	0.3	0
60	Light-induced structural changes in photosynthetic reaction centres. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s104-s104.	0.3	0
61	Membrane protein crystallization from lipidic phases. Current Opinion in Structural Biology, 2009, 19, 372-378.	5.7	73
62	Structural Dynamics of Light-Driven Proton Pumps. Structure, 2009, 17, 1265-1275.	3.3	118
63	Lipidic Sponge Phase Crystal Structure of a Photosynthetic Reaction Center Reveals Lipids on the Protein Surface. Biochemistry, 2009, 48, 9831-9838.	2.5	48
64	Raman-Assisted X-Ray Crystallography for the Analysis of Biomolecules. Methods in Molecular Biology, 2009, 544, 253-267.	0.9	8
65	The Crystal Structure of a Trypsin-like Mutant Chymotrypsin: The Role of Position 226 in the Activity and Specificity of S189D Chymotrypsin. Protein Journal, 2008, 27, 79-87.	1.6	5
66	A Lipidic-Sponge Phase Screen for Membrane Protein Crystallization. Structure, 2008, 16, 1003-1009.	3.3	60
67	Probing the Dynamic Interface between Trimethylamine Dehydrogenase (TMADH) and Electron Transferring Flavoprotein (ETF) in the TMADHâˆ’2ETF Complex: Role of the Arg-Î±237 (ETF) and Tyr-442 (TMADH) Residue Pair[,]. Biochemistry, 2008, 47, 5168-5181.	2.5	9
68	Structural changes of reaction centre fromBl. viridisrevealed by time-resolved Laue diffraction. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C203-C204.	0.3	0
69	Development of a lipidic-sponge phase screen for membrane protein crystallization. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C583-C583.	0.3	0
70	Raman-Assisted Crystallography Reveals End-On Peroxide Intermediates in a Nonheme Iron Enzyme. Science, 2007, 316, 449-453.	12.6	142
71	Enzyme:Substrate Hydrogen Bond Shortening during the Acylation Phase of Serine Protease Catalysis. Biochemistry, 2006, 45, 2114-2121.	2.5	36
72	Lipidic Sponge Phase Crystallization of Membrane Proteins. Journal of Molecular Biology, 2006, 364, 44-53.	4.2	105

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73	Conformational regulation of charge recombination reactions in a photosynthetic bacterial reaction center. Nature Structural and Molecular Biology, 2005, 12, 630-631.	8.2	64
74	Structural Determination of a Transient Isomer ofCH2I2by Picosecond X-Ray Diffraction. Physical Review Letters, 2005, 94, .	7.8	93
75	Extended Intermolecular Interactions in a Serine Proteaseâ€“Canonical Inhibitor Complex Account for Strong and Highly Specific Inhibition. Journal of Molecular Biology, 2005, 350, 156-169.	4.2	43
76	Structural and evolutionary consequences of unpaired cysteines in trypsinogen. Biochemical and Biophysical Research Communications, 2003, 309, 749-754.	2.1	10
77	Lipidic Cubic Phase Crystal Structure of the Photosynthetic Reaction Centre from Rhodobacter sphaeroides at 2.35Ã... Resolution. Journal of Molecular Biology, 2003, 331, 681-692.	4.2	127
78	Projecting picosecond lattice dynamics through x-ray topography. Applied Physics Letters, 2002, 80, 3727-3729.	3.3	15
79	X-ray Structure of a Serine Protease Acyl-Enzyme Complex at 0.95-Ã... Resolution. Journal of Biological Chemistry, 2002, 277, 21962-21970.	3.4	57
80	Crystal structure reveals basis for the inhibitor resistance of human brain trypsin. Journal of Molecular Biology, 2002, 315, 1209-1218.	4.2	88
81	Comparative in Vitro Studies on Native and Recombinant Human Cationic Trypsins. Journal of Biological Chemistry, 2001, 276, 24574-24580.	3.4	83