

# Alberto Cassetta

## List of Publications by Year in descending order

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50  
papers

1,214  
citations

361413

20  
h-index

377865

34  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Status of the crystallography beamlines at Elettra. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	141
2	Membrane crystallization of lysozyme: kinetic aspects. <i>Journal of Crystal Growth</i> , 2003, 257, 359-369.	1.5	85
3	Scaling of the critical temperature with the Fermi temperature in diborides. <i>Physical Review B</i> , 2002, 65, .	3.2	83
4	Trends and Challenges in Experimental Macromolecular Crystallography. <i>Quarterly Reviews of Biophysics</i> , 1996, 29, 227-278.	5.7	72
5	Membrane crystallization of lysozyme under forced solution flow. <i>Journal of Membrane Science</i> , 2005, 257, 134-143.	8.2	71
6	Synthesis and spectroscopic investigations (IR, NMR and Mössbauer) of tin(IV) and organotin(IV) derivatives of bis(pyrazol-1-yl) alkanes: X-ray crystal structures of bis(4-methylpyrazol-1-yl) methane and its dimethyltin(IV) dichloride adduct. <i>Journal of Organometallic Chemistry</i> , 1995, 496, 69-85.	1.8	54
7	Neutron Laue diffraction study of concanavalin A The proton of Asp28. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 4313-4317.	1.7	47
8	The amplification of the superconducting $T_c$ by combined effect of tuning of the Fermi level and the tensile micro-strain in $Al_{1-x}Mg_xB_2$ . <i>Europhysics Letters</i> , 2002, 58, 278-284.	2.0	47
9	Dissecting NGF Interactions with TrkA and p75 Receptors by Structural and Functional Studies of an Anti-NGF Neutralizing Antibody. <i>Journal of Molecular Biology</i> , 2008, 381, 881-896.	4.2	43
10	Synthesis and Structural Investigations of Novel Palladium(II) and Rhodium(I) Complexes Containing Chiral Ligands with a Stereogenic Sulfur Donor, Such As $\beta^2$ -Amino Sulfoxides and C2-Symmetric Bis-Sulfoxides. <i>Organometallics</i> , 1999, 18, 555-563.	2.3	41
11	Time-resolved structures of hydroxymethylbilane synthase (Lys59Gln mutant) as it is loaded with substrate in the crystal determined by Laue diffraction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2615-2622.	1.7	38
12	Preparation of Enzyme Crystals with Tunable Morphology in Membrane Crystallizers. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 10005-10012.	3.7	38
13	Tin(IV) and organotin(IV) complexes containing mono or bidentate N-donor ligands. <i>Journal of Organometallic Chemistry</i> , 1998, 553, 345-369.	1.8	35
14	Triorganotin(IV) derivatives of several 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization and behavior in solution Crystal structure of aquotrimethyl(4-p-methoxybenzoyl-1-phenyl-3-methyl-pyrazolon-5-ato)tin(IV). <i>Journal of Organometallic Chemistry</i> , 1996, 517, 141-154.	1.8	28
15	Tin(IV) and organotin(IV) complexes containing mono or bidentate N-donor ligands II. 14-Phenylimidazole derivatives. Crystal and molecular structure of [bis(4-phenylimidazole) trimethyltin(IV) ] chloride. <i>Journal of Organometallic Chemistry</i> , 1996, 515, 119-130.	1.8	27
16	Indole[1,2-c]quinazolines by Palladium-Catalyzed Cyclization of Bis(o-trifluoroacetamidophenyl) acetylene with Aryl and Vinyl Halides or Triflates. <i>Synlett</i> , 2001, 2001, 1605-1607.	1.8	27
17	Unveiling the binding mode of perfluorooctanoic acid to human serum albumin. <i>Protein Science</i> , 2021, 30, 830-841.	7.6	25
18	High-pressure X-ray diffraction study on $\beta$ -PbF <sub>2</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 919-925.	4.0	21

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19	Structural basis for inhibition of 17 $\beta$ -hydroxysteroid dehydrogenases by phytoestrogens: The case of fungal 17 $\beta$ -HSDcl. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 171, 80-93.	2.5	21
20	The macromolecular crystallography beamline at ELETTRA. <i>Review of Scientific Instruments</i> , 1995, 66, 1661-1664.	1.3	20
21	Partial Improvement of Crystal Quality for Microgravity-Grown Apocrustacyanin C1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1997, 53, 231-239.	2.5	20
22	(1-Phenyl-3-methyl-4-acetylpyrazolon-5-ato)rhodium(I) complexes, synthesis, structural and spectroscopical characterization: Reactivity of diolefin- and dicarbonyl-rhodium complexes toward N-, P- and O-donors. <i>Journal of Organometallic Chemistry</i> , 1998, 566, 187-201.	1.8	20
23	The Conundrum of the High-Affinity NGF Binding Site Formation Unveiled?. <i>Biophysical Journal</i> , 2015, 108, 687-697.	0.5	20
24	Determination of the structure of selenomethionine-labelled hydroxymethylbilane synthase in its active form by multi-wavelength anomalous dispersion. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 631-643.	2.5	18
25	Development of instrumentation and methods for MAD and structural genomics at the SRS, ESRF, CHESS and Elettra facilities. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 822-833.	2.4	17
26	Influence of substrate on molecular order for self-assembled adlayers of CoPc and FePc. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1015-1022.	2.5	16
27	Covalent immobilization of delipidated human serum albumin on poly(pyrrole-2-carboxylic) acid film for the impedimetric detection of perfluorooctanoic acid. <i>Bioelectrochemistry</i> , 2020, 134, 107540.	4.6	16
28	A novel water-resistant and thermally stable black lead halide perovskite, phenyl viologen lead iodide C <sub>22</sub> H <sub>18</sub> N <sub>2</sub> (Pb <sub>3</sub> ) <sub>2</sub> . <i>Dalton Transactions</i> , 2020, 49, 2616-2627.	3.3	14
29	The Structure of the T190M Mutant of Murine $\alpha$ -Dystroglycan at High Resolution: Insight into the Molecular Basis of a Primary Dystroglycanopathy. <i>PLoS ONE</i> , 2015, 10, e0124277.	2.5	13
30	Insights into subtle conformational differences in the substrate-binding loop of fungal 17 $\beta$ -hydroxysteroid dehydrogenase: a combined structural and kinetic approach. <i>Biochemical Journal</i> , 2012, 441, 151-160.	3.7	12
31	Structural flexibility of human $\alpha$ -dystroglycan. <i>FEBS Open Bio</i> , 2017, 7, 1064-1077.	2.3	12
32	Synthesis, physico-chemical characterization and structure of the elusive hydroxylammonium lead iodide perovskite NH <sub>3</sub> OHPb <sub>3</sub> . <i>Dalton Transactions</i> , 2019, 48, 5397-5407.	3.3	12
33	Crystallization, X-ray diffraction analysis and phasing of 17 $\beta$ -hydroxysteroid dehydrogenase from the fungus <i>Cochliobolus lunatus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 1032-1034.	0.7	11
34	A dystroglycan mutation (p.Cys667Phe) associated to muscle-eye-brain disease with multicystic leucodystrophy results in ER-retention of the mutant protein. <i>Human Mutation</i> , 2018, 39, 266-280.	2.5	8
35	The emergence of the synchrotron Laue method for rapid data collection from protein crystals. <i>Proceedings of the Royal Society A</i> , 1993, 442, 177-192.	0.9	7
36	Effect of Temperature and X-Ray Illumination on the Oxygen Ordering in La <sub>2</sub> CuO <sub>4</sub> . <i>Superconductor. Journal of Superconductivity and Novel Magnetism</i> , 2004, 17, 137-142.	0.5	6

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37	Endogenous modulators of neurotrophin signaling: Landscape of the transient ATP-NGF interactions. Computational and Structural Biotechnology Journal, 2021, 19, 2938-2949.	4.1	5
38	(3R,5R)-Tetrahydro-2H-1,4-thiazine-3,5-dicarboxylic acid monohydrate. Acta Crystallographica Section C: Crystal Structure Communications, 1993, 49, 976-978.	0.4	4
39	Crystallization and preliminary X-ray study of chloroplast glyceraldehyde-3-phosphate dehydrogenase. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 566-567.	2.5	4
40	Purification, crystallization, X-ray diffraction analysis and phasing of a Fab fragment of monoclonal neuroantibody $\hat{I}\pm$ D11 against nerve growth factor. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1323-1327.	2.5	4
41	The effect of the pathological V72I, D109N and T190M missense mutations on the molecular structure of $\hat{I}\pm$ -dystroglycan. PLoS ONE, 2017, 12, e0186110.	2.5	4
42	Anomalous dispersion analyses of the Ni-atom site in an aluminophosphate test crystal including the use of tuned synchrotron radiation. Acta Crystallographica Section B: Structural Science, 1996, 52, 479-486.	1.8	3
43	Calibration of rotation axes for multi-axis goniometers in macromolecular crystallography. Journal of Applied Crystallography, 2018, 51, 1421-1427.	4.5	3
44	Structure of S35C flavodoxin mutant from <i>Desulfovibrio vulgaris</i> in the semiquinone state. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 481-484.	2.5	1
45	Protein crystal perfection and the crystal growth process. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C517-C517.	0.3	0
46	Time-resolved structural studies of hydroxymethylbilane synthase (HMBS). Acta Crystallographica Section A: Foundations and Advances, 2002, 58, c241-c241.	0.3	0
47	Structural and functional studies of carbohydrate esterase family 7 enzymes. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c208-c208.	0.3	0
48	(3R,5S)-5(3)-Carboxy-3,4,5,6-tetrahydro-2H-1,4-thiazin-4-ium-3(5)-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o636-o636.	0.2	0
49	Time-resolved Laue studies from diene lactone hydrolase and porphobilinogen deaminase. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C49-C50.	0.3	0
50	The four-circle diffractometer at ELETTRA. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C16-C16.	0.3	0