

Jose A Gavira

List of Publications by Year in descending order

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131
papers

3,451
citations

159525

30
h-index

175177

52
g-index

136
all docs

136
docs citations

136
times ranked

3347
citing authors

#	ARTICLE	IF	CITATIONS
1	A short overview on practical techniques for protein crystallization and a new approach using low intensity electromagnetic fields. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2022, 68, 100559.	1.8	5
2	Chemotaxis of the Human Pathogen <i>Pseudomonas aeruginosa</i> to the Neurotransmitter Acetylcholine. <i>MBio</i> , 2022, 13, e0345821.	1.8	19
3	A New L-Proline Amide Hydrolase with Potential Application within the Amidase Process. <i>Crystals</i> , 2022, 12, 18.	1.0	1
4	Structural insights into choline-O-sulfatase reveal the molecular determinants for ligand binding. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 669-682.	1.1	0
5	Interactions Between Peptide Assemblies and Proteins for Medicine. <i>Israel Journal of Chemistry</i> , 2022, 62, .	1.0	5
6	Lysozyme crystallization in hydrogel media under ultrasound irradiation. <i>Ultrasonics Sonochemistry</i> , 2022, , 106096.	3.8	3
7	The structural basis for signal promiscuity in a bacterial chemoreceptor. <i>FEBS Journal</i> , 2021, 288, 2294-2310.	2.2	9
8	Heme-binding enables allosteric modulation in an ancient TIM-barrel glycosidase. <i>Nature Communications</i> , 2021, 12, 380.	5.8	20
9	Nonclassical Nucleation – Role of Metastable Intermediate Phase in Crystal Nucleation: An Editorial Prefix. <i>Crystals</i> , 2021, 11, 174.	1.0	6
10	Resurrected Ancestral TIM-Barrel Glycosidase Displays Heme Binding and Allosteric Modulation. <i>Biophysical Journal</i> , 2021, 120, 125a-126a.	0.2	0
11	Production of Cross-Linked Lipase Crystals at a Preparative Scale. <i>Crystal Growth and Design</i> , 2021, 21, 1698-1707.	1.4	11
12	<i>Pseudomonas aeruginosa</i> as a Model To Study Chemosensory Pathway Signaling. <i>Microbiology and Molecular Biology Reviews</i> , 2021, 85, .	2.9	39
13	Hinge-shift mechanism as a protein design principle for the evolution of β -lactamases from substrate promiscuity to specificity. <i>Nature Communications</i> , 2021, 12, 1852.	5.8	43
14	Insulin Crystals Grown in Short-Peptide Supramolecular Hydrogels Show Enhanced Thermal Stability and Slower Release Profile. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11672-11682.	4.0	20
15	Tuning Transport Phenomena in Agarose Gels for the Control of Protein Nucleation Density and Crystal Form. <i>Crystals</i> , 2021, 11, 466.	1.0	5
16	Histamine: A Bacterial Signal Molecule. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6312.	1.8	12
17	Combining Ancestral Reconstruction with Folding-Landscape Simulations to Engineer Heterologous Protein Expression. <i>Journal of Molecular Biology</i> , 2021, 433, 167321.	2.0	5
18	X-ray Characterization of Conformational Changes of Human Apo- and Holo-Transferrin. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13392.	1.8	7

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19	Evidence for Pentapeptide-Dependent and Independent CheB Methylsterases. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8459.	1.8	5
20	Attaining atomic resolution from <i>in situ</i> data collection at room temperature using counter-diffusion-based low-cost microchips. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 751-758.	1.1	9
21	Enhancing a <i>de novo</i> enzyme activity by computationally-focused ultra-low-throughput screening. <i>Chemical Science</i> , 2020, 11, 6134-6148.	3.7	24
22	What are the Design Principles for Evolution from Promiscuous to Substrate Specificity?. <i>Biophysical Journal</i> , 2020, 118, 205a.	0.2	0
23	Agarose Gel as a Medium for Growing and Tailoring Protein Crystals. <i>Crystal Growth and Design</i> , 2020, 20, 5564-5571.	1.4	13
24	N-succinylamino acid racemases: Enzymatic properties and biotechnological applications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140377.	1.1	8
25	How Bacterial Chemoreceptors Evolve Novel Ligand Specificities. <i>MBio</i> , 2020, 11, .	1.8	52
26	On the Quality of Protein Crystals Grown under Diffusion Mass-transport Controlled Regime (I). <i>Crystals</i> , 2020, 10, 68.	1.0	9
27	Catalytic and Electron Conducting Carbon Nanotube-Reinforced Lysozyme Crystals. <i>Advanced Functional Materials</i> , 2019, 29, 1807351.	7.8	25
28	Resurrection of efficient Precambrian endoglucanases for lignocellulosic biomass hydrolysis. <i>Communications Chemistry</i> , 2019, 2, .	2.0	21
29	Enhanced Stability against Radiation Damage of Lysozyme Crystals Grown in Fmoc-CF Hydrogels. <i>Crystal Growth and Design</i> , 2019, 19, 4229-4233.	1.4	8
30	Extending the pool of compatible peptide hydrogels for protein crystallization. <i>Crystals</i> , 2019, 9, 244.	1.0	3
31	Efficacy of aldose reductase inhibitors is affected by oxidative stress induced under X-ray irradiation. <i>Scientific Reports</i> , 2019, 9, 3177.	1.6	11
32	The Molecular Mechanism of Nitrate Chemotaxis via Direct Ligand Binding to the PilJ Domain of McpN. <i>MBio</i> , 2019, 10, .	1.8	40
33	A novel cysteine carbamoyl-switch is responsible for the inhibition of formamidase, a nitrilase superfamily member. <i>Archives of Biochemistry and Biophysics</i> , 2019, 662, 151-159.	1.4	3
34	Non-conservation of folding rates in the thioredoxin family reveals degradation of ancestral unassisted-folding. <i>Biochemical Journal</i> , 2019, 476, 3631-3647.	1.7	16
35	A simple and versatile microfluidic device for efficient biomacromolecule crystallization and structural analysis by serial crystallography. <i>IUCr</i> , 2019, 6, 454-464.	1.0	23
36	Protein separation under a microfluidic regime. <i>Analyst</i> , 2018, 143, 606-619.	1.7	27

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37	Seeding from silica-reinforced lysozyme crystals for neutron crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1200-1207.	1.1	3
38	High-Affinity Chemotaxis to Histamine Mediated by the TlpQ Chemoreceptor of the Human Pathogen <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2018, 9, .	1.8	57
39	Functional Annotation of Bacterial Signal Transduction Systems: Progress and Challenges. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3755.	1.8	19
40	Structural Basis for Polyamine Binding at the dCACHE Domain of the McpU Chemoreceptor from <i>Pseudomonas putida</i> . <i>Journal of Molecular Biology</i> , 2018, 430, 1950-1963.	2.0	33
41	On the versatility of CLECs for biotechnological applications, from micro to macro-fluidics devices. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e208-e208.	0.0	0
42	Synthesis and characterization of cross-linked lysozyme crystals filled with single-walled carbon nanotube bionanomaterials. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e184-e184.	0.0	0
43	Efficient Screening Methodology for Protein Crystallization Based on the Counter-Diffusion Technique. <i>Crystal Growth and Design</i> , 2017, 17, 6780-6786.	1.4	14
44	Enhanced vulnerability of human proteins towards disease-associated inactivation through divergent evolution. <i>Human Molecular Genetics</i> , 2017, 26, 3531-3544.	1.4	34
45	De novo active sites for resurrected Precambrian enzymes. <i>Nature Communications</i> , 2017, 8, 16113.	5.8	60
46	The International Crystallization Schools IS(B)C of Granada. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C506-C506.	0.0	0
47	Identification and characterization of a bacterial hyaluronidase and its production in recombinant form. <i>FEBS Letters</i> , 2016, 590, 2180-2189.	1.3	15
48	Macromolecular crystallography: An old science with new perspectives. <i>Archives of Biochemistry and Biophysics</i> , 2016, 602, 1-2.	1.4	0
49	Bioinspired Calcium Phosphate Coated Mica Sheets by Vapor Diffusion and Its Effects on Lysozyme Assembly and Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 5150-5158.	1.4	6
50	Continuous Sensing Photonic Lab-on-a-Chip Platform Based on Cross-Linked Enzyme Crystals. <i>Analytical Chemistry</i> , 2016, 88, 11919-11923.	3.2	13
51	Current trends in protein crystallization. <i>Archives of Biochemistry and Biophysics</i> , 2016, 602, 3-11.	1.4	62
52	Influence of the chirality of short peptide supramolecular hydrogels in protein crystallogenesis. <i>Chemical Communications</i> , 2015, 51, 3862-3865.	2.2	30
53	Mutational Studies on Resurrected Ancestral Proteins Reveal Conservation of Site-Specific Amino Acid Preferences throughout Evolutionary History. <i>Molecular Biology and Evolution</i> , 2015, 32, 440-455.	3.5	71
54	A multiple path photonic lab on a chip for parallel protein concentration measurements. <i>Lab on A Chip</i> , 2015, 15, 1133-1139.	3.1	15

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55	McCLEEC, a robust and stable enzymatic based microreactor platform. <i>Lab on A Chip</i> , 2015, 15, 4083-4089.	3.1	7
56	Protein crystallization in short-peptide supramolecular hydrogels: a versatile strategy towards biotechnological composite materials. <i>CrystEngComm</i> , 2015, 17, 8072-8078.	1.3	21
57	Evolution of Conformational Dynamics Determines the Conversion of a Promiscuous Generalist into a Specialist Enzyme. <i>Molecular Biology and Evolution</i> , 2015, 32, 132-143.	3.5	125
58	Phenotypic comparisons of consensus variants versus laboratory resurrections of Precambrian proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 887-896.	1.5	56
59	Thermostable and promiscuous Precambrian proteins. <i>Environmental Microbiology</i> , 2014, 16, 1485-1489.	1.8	33
60	Cloning, expression, purification, crystallization and preliminary X-ray characterization of allantoinase from <i>Bacillus licheniformis</i> ATCC 14580. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1513-1516.	0.4	2
61	Introduction to protein crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 2-20.	0.4	291
62	Use of Cross-Linked Poly(ethylene glycol)-Based Hydrogels for Protein Crystallization. <i>Crystal Growth and Design</i> , 2014, 14, 3239-3248.	1.4	20
63	Mechanistic Insights of β -Lactamases Evolution. <i>Biophysical Journal</i> , 2014, 106, 663a.	0.2	0
64	Conservation of Protein Structure over Four Billion Years. <i>Structure</i> , 2013, 21, 1690-1697.	1.6	115
65	Hyperstability and Substrate Promiscuity in Laboratory Resurrections of Precambrian β -Lactamases. <i>Journal of the American Chemical Society</i> , 2013, 135, 2899-2902.	6.6	212
66	Growth of Ultrastable Protein-Silica Composite Crystals. <i>Crystal Growth and Design</i> , 2013, 13, 2522-2529.	1.4	26
67	Heterogeneous Crystallization of Proteins: Is it a Prenucleation Clusters Mediated Process?. <i>Crystal Growth and Design</i> , 2013, 13, 3110-3115.	1.4	21
68	Purification, crystallization and preliminary crystallographic analysis of the ligand-binding regions of the PctA and PctB chemoreceptors from <i>Pseudomonas aeruginosa</i> in complex with amino acids. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1431-1435.	0.7	4
69	Mutational and Structural Analysis of I - N -Carbamoylase Reveals New Insights into a Peptidase M20/M25/M40 Family Member. <i>Journal of Bacteriology</i> , 2012, 194, 5759-5768.	1.0	23
70	Evidence for chemoreceptors with bimodular ligand-binding regions harboring two signal-binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18926-18931.	3.3	68
71	In situ X-ray data collection from highly sensitive crystals of <i>Pseudomonas putida</i> PtxS in complex with DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1307-1310.	0.7	6
72	Protein Experiment: Scientific Data Processing Platform for On-Flight Experiment Tuning. <i>Microgravity Science and Technology</i> , 2012, 24, 327-334.	0.7	1

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73	Monitoring and Scoring Counter-Diffusion Protein Crystallization Experiments in Capillaries by in situ Dynamic Light Scattering. PLoS ONE, 2012, 7, e33545.	1.1	17
74	Crystallization and crystallographic analysis of the ligand-binding domain of the Pseudomonas putida chemoreceptor McpS in complex with malate and succinate. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 428-431.	0.7	2
75	Protein crystallization in gels: the better choice to grow crystals for structural determination. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s145-s145.	0.3	0
76	Optimization of Protein Crystallization: The OptiCryst Project. Crystal Growth and Design, 2011, 11, 2112-2121.	1.4	13
77	Combining Counter-Diffusion and Microseeding to Increase the Success Rate in Protein Crystallization. Crystal Growth and Design, 2011, 11, 2122-2126.	1.4	16
78	Hetero- vs Homogeneous Nucleation of Protein Crystals Discriminated by Supersaturation. Crystal Growth and Design, 2011, 11, 1542-1548.	1.4	26
79	Understanding the polymorphic behaviour of a mutant of the $\hat{\iota}$ -spectrin SH3 domain by means of two 1.1 Å... resolution structures. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 189-196.	2.5	7
80	Isolation and crystallization studies of selected proteins from plant photosystem II. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C744-C745.	0.3	0
81	L-N-carbamoylase structure suggests a striking case of protein evolution. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C769-C769.	0.3	0
82	Crystallization in gels and microgravity: a comparative study. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C89-C89.	0.3	0
83	Structure of a novel bacterial small molecule sensor domain with two ligands. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C226-C226.	0.3	0
84	Atomic resolution studies of haloalkane dehalogenases DhaA04, DhaA14 and DhaA15 with engineered access tunnels. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 962-969.	2.5	12
85	Two-step counterdiffusion protocol for the crystallization of haemoglobin II from <i>Lucina pectinata</i> in the pH range 4-9. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 264-268.	0.7	6
86	Biophysical and atomic force microscopy characterization of the RNA from satellite tobacco mosaic virus. Nucleic Acids Research, 2010, 38, 8284-8294.	6.5	18
87	Toward the Crystallization of Photosystem II Core Complex from <i>Pisum sativum</i> L.. Crystal Growth and Design, 2010, 10, 3391-3396.	1.4	1
88	Modulation of Buried Ionizable Groups in Proteins with Engineered Surface Charge. Journal of the American Chemical Society, 2010, 132, 1218-1219.	6.6	31
89	Structure of dihydropyrimidinase from <i>Sinorhizobium meliloti</i> CECT4114: New features in an amidohydrolase family member. Journal of Structural Biology, 2010, 169, 200-208.	1.3	28
90	Novel conformational aspects of the third PDZ domain of the neuronal post-synaptic density-95 protein revealed from two 1.4 Å... X-ray structures. Journal of Structural Biology, 2010, 170, 565-569.	1.3	21

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91	Crystallization in gels: a practical workshop. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s83-s83.	0.3	0
92	Counterdiffusion methods applied to protein crystallization. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 101, 26-37.	1.4	103
93	Crystallization and diffraction patterns of the oxy and cyano forms of the <i>Lucina pectinata</i> haemoglobins complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 25-28.	0.7	8
94	Precise protein solubility determination by Laser confocal differential interference contrast microscopy. <i>Journal of Crystal Growth</i> , 2009, 311, 3479-3484.	0.7	22
95	Direct Observation of Adsorption Sites of Protein Impurities and Their Effects on Step Advancement of Protein Crystals. <i>Crystal Growth and Design</i> , 2009, 9, 3062-3071.	1.4	35
96	Effects of a Magnetic Field on Lysozyme Crystal Nucleation and Growth in a Diffusive Environment. <i>Crystal Growth and Design</i> , 2009, 9, 2610-2615.	1.4	34
97	Crystallization of proteins on functionalized surfaces. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 1054-1061.	2.5	29
98	Crystallization and preliminary crystallographic studies of an active-site mutant hydantoin racemase from <i>Sinorhizobium meliloti</i> CECT4114. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 50-53.	0.7	5
99	Crystallization and preliminary crystallographic studies of the recombinant L-N-carbamoylase from <i>Geobacillus stearothermophilus</i> CECT43. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 1135-1138.	0.7	4
100	Is Agarose an Impurity or an Impurity Filter? In Situ Observation of the Joint Gel/Impurity Effect on Protein Crystal Growth Kinetics. <i>Crystal Growth and Design</i> , 2008, 8, 3623-3629.	1.4	33
101	Toward a Definition of X-ray Crystal Quality. <i>Crystal Growth and Design</i> , 2008, 8, 4284-4290.	1.4	9
102	Comparison of Different Experimental Techniques for the Measurement of Crystal Growth Kinetics. <i>Crystal Growth and Design</i> , 2008, 8, 4316-4323.	1.4	55
103	Granada Crystallization Facility-2: A Versatile Platform for Crystallization in Space. <i>Crystal Growth and Design</i> , 2008, 8, 4324-4329.	1.4	15
104	Structure and Ligand Selection of Hemoglobin II from <i>Lucina pectinata</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 9414-9423.	1.6	24
105	Force-Clamp Spectroscopy Detects Residue Co-evolution in Enzyme Catalysis. <i>Journal of Biological Chemistry</i> , 2008, 283, 27121-27129.	1.6	16
106	Structure of the mexicaninâ€E-64 complex and comparison with other cysteine proteases of the papain family. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 555-563.	2.5	11
107	Crystallization by capillary counter-diffusion and structure determination of the N114A mutant of the SH3 domain of Abl tyrosine kinase complexed with a high-affinity peptide ligand. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 646-652.	2.5	10
108	New techniques for membrane protein crystallization tested on photosystem II core complex of <i>Pisum sativum</i> . <i>Photosynthesis Research</i> , 2007, 90, 255-259.	1.6	14

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109	Capillary crystallization and molecular-replacement solution of haemoglobin II from the clam <i>Lucina pectinata</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 196-199.	0.7	15
110	Crystallization and preliminary crystallographic studies of the recombinant dihydropyrimidinase from <i>Sinorhizobium meliloti</i> CECT4114. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1223-1226.	0.7	10
111	Toward the getting of photosystem II core complex crystals from <i>Pisum sativum</i> . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2006, 62, s145-s145.	0.3	0
112	Mexicain, from the crystal to the structure: a sixty years journey. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, c179-c179.	0.3	0
113	Binding curves by continuous gradient flow-mix calorimetry. <i>Thermochimica Acta</i> , 2005, 437, 140-144.	1.2	0
114	Life in the fast lane for protein crystallization and X-ray crystallography. <i>Progress in Biophysics and Molecular Biology</i> , 2005, 88, 359-386.	1.4	77
115	Purification, crystallization and preliminary X-ray analysis of mexicain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 2058-2060.	2.5	8
116	The effect of the low magnetic field on the quality of tetragonal lysozyme crystals grown with paramagnetic salts. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2004, 60, s282-s282.	0.3	0
117	Crystallization of photosystem II core complex from <i>Pisum sativum</i> . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2004, 60, s131-s131.	0.3	0
118	Protein crystal quality in diffusive environments and its evaluation. <i>Journal of Crystal Growth</i> , 2003, 247, 177-184.	0.7	9
119	Purification, crystallization and preliminary X-ray analysis of <i>Caenorhabditis elegans</i> ubiquitin-conjugation enzyme M7.1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 544-546.	2.5	0
120	Protein crystallization by capillary counterdiffusion for applied crystallographic structure determination. <i>Journal of Structural Biology</i> , 2003, 142, 218-231.	1.3	117
121	Ab initio crystallographic structure determination of insulin from protein to electron density without crystal handling. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1147-1154.	2.5	49
122	Granada Crystallisation Box: a new device for protein crystallisation by counter-diffusion techniques. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1638-1642.	2.5	75
123	Agarose as crystallisation media for proteins II: Trapping of gel fibres into the crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1653-1656.	2.5	75
124	Crystallization and cryocrystallography inside X-ray capillaries. <i>Journal of Applied Crystallography</i> , 2001, 34, 365-370.	1.9	29
125	Experimental evidence for the stability of the depletion zone around a growing protein crystal under microgravity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 412-417.	2.5	34
126	Structure of tetragonal hen egg-white lysozyme at 0.94 Å from crystals grown by the counter-diffusion method. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1119-1126.	2.5	86

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127	A supersaturation wave of protein crystallization. Journal of Crystal Growth, 2001, 232, 149-155.	0.7	44
128	Agarose as crystallization media for proteins. Journal of Crystal Growth, 2001, 232, 165-172.	0.7	99
129	In-situ measurement of rocking curves during lysozyme crystal growth. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 650-655.	2.5	4
130	Topography and high resolution diffraction studies in tetragonal lysozyme. Journal of Crystal Growth, 1999, 196, 546-558.	0.7	59
131	Reinforced protein crystals. Materials Research Bulletin, 1998, 33, 1593-1598.	2.7	60