

# Naomi E Chayen

## List of Publications by Year in descending order

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83  
papers

3,080  
citations

159585

30  
h-index

161849

54  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-Based Nucleants for Protein Crystallization. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	4
2	Analysis of insulin glulisine at the molecular level by X-ray crystallography and biophysical techniques. <i>Scientific Reports</i> , 2021, 11, 1737.	3.3	7
3	Theoretical and experimental investigation of protein crystal nucleation in pores and crevices. <i>IUCr</i> , 2021, 8, 270-280.	2.2	5
4	X-ray crystallographic studies of RoAb13 bound to PIYDIN, a part of the N-terminal domain of C-C chemokine receptor 5. <i>IUCr</i> , 2021, 8, 678-683.	2.2	2
5	The structure-function relationship of oncogenic LMTK3. <i>Science Advances</i> , 2020, 6, .	10.3	18
6	Inactivating mutations and X-ray crystal structure of the tumor suppressor OPCML reveal cancer-associated functions. <i>Nature Communications</i> , 2019, 10, 3134.	12.8	9
7	Analysis of Glulisine Crystallisation Utilising Phase Diagrams and Nucleants. <i>Crystals</i> , 2019, 9, 462.	2.2	2
8	Choosing the Method of Crystallization to Obtain Optimal Results. <i>Crystals</i> , 2019, 9, 106.	2.2	7
9	Droplet Microfluidics XRD Identifies Effective Nucleating Agents for Calcium Carbonate. <i>Advanced Functional Materials</i> , 2019, 29, 1808172.	14.9	31
10	Hydrophobic Interface-Assisted Protein Crystallization: Theory and Experiment. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12931-12940.	8.0	19
11	Enhancing the success of macromolecular crystallization. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e15-e15.	0.1	0
12	Chlamydia protein Pgp3 studied at high resolution in a new crystal form. <i>IUCr</i> , 2018, 5, 439-448.	2.2	3
13	Characterisation of insulin analogues therapeutically available to patients. <i>PLoS ONE</i> , 2018, 13, e0195010.	2.5	18
14	Glargine and degludec: Solution behaviour of higher dose synthetic insulins. <i>Scientific Reports</i> , 2017, 7, 7287.	3.3	9
15	Smart materials for increasing the success of protein crystallization. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1138-C1138.	0.1	0
16	Enhancing the success of crystallization: strategies and techniques. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1082-C1082.	0.1	0
17	Protein crystal nucleation in pores. <i>Scientific Reports</i> , 2017, 7, 35821.	3.3	38
18	Exploring Carbon Nanomaterial Diversity for Nucleation of Protein Crystals. <i>Scientific Reports</i> , 2016, 6, 20053.	3.3	23

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19	Reductively PEGylated carbon nanomaterials and their use to nucleate 3D protein crystals: a comparison of dimensionality. <i>Chemical Science</i> , 2016, 7, 2916-2923.	7.4	40
20	How to... enhance the success of protein crystallization. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s173-s173.	0.1	0
21	Successful crystal formation - the journey from idea to fruition. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s47-s47.	0.1	0
22	Automating the application of smart materials for protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 534-540.	2.5	15
23	Three-dimensional structure of the human breast cancer resistance protein (BCRP/ABCG2) in an inward-facing conformation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1725-1735.	2.5	30
24	A Linear Epitope in the N-Terminal Domain of CCR5 and Its Interaction with Antibody. <i>PLoS ONE</i> , 2015, 10, e0128381.	2.5	14
25	A unique octameric structure of Axe2, an intracellular acetyl-xylooligosaccharide esterase from <i>Geobacillus stearothermophilus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 261-278.	2.5	30
26	Porous nucleating agents for protein crystallization. <i>Nature Protocols</i> , 2014, 9, 1621-1633.	12.0	93
27	Imprinted polymers assisting protein crystallization. <i>Trends in Biotechnology</i> , 2013, 31, 515-520.	9.3	46
28	Crystallization and preliminary crystallographic analysis of GanB, a GH42 intracellular $\beta$ -galactosidase from <i>Geobacillus stearothermophilus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1114-1119.	0.7	21
29	Structural Basis for Paxillin Binding and Focal Adhesion Targeting of $\beta$ -Parvin. <i>Journal of Biological Chemistry</i> , 2012, 287, 32566-32577.	3.4	33
30	The OPCML Tumor Suppressor Functions as a Cell Surface Repressor—Adaptor, Negatively Regulating Receptor Tyrosine Kinases in Epithelial Ovarian Cancer. <i>Cancer Discovery</i> , 2012, 2, 156-171.	9.4	50
31	Micro ATR FTIR imaging of hanging drop protein crystallisation. <i>Vibrational Spectroscopy</i> , 2012, 63, 492-498.	2.2	20
32	Optimization of Protein Crystallization: The OptiCryst Project. <i>Crystal Growth and Design</i> , 2011, 11, 2112-2121.	3.0	13
33	Random Microseeding: A Theoretical and Practical Exploration of Seed Stability and Seeding Techniques for Successful Protein Crystallization. <i>Crystal Growth and Design</i> , 2011, 11, 3432-3441.	3.0	68
34	Use of Dual Polarization Interferometry as a Diagnostic Tool for Protein Crystallization. <i>Analytical Chemistry</i> , 2011, 83, 7881-7887.	6.5	15
35	Protein crystallization facilitated by molecularly imprinted polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11081-11086.	7.1	120
36	Abstract 1616: The OPCML tumor suppressor negatively regulates a specific repertoire of 5 receptor tyrosine kinases via a novel proteasomal mechanism, and its recombinant derivative is a potent in-vivo anticancer protein therapy. , 2011, , .		0

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37	Electronic carbon-nanotube-based materials for protein crystallization. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s294-s294.	0.3	0
38	Dual polarization interferometry in macromolecular crystallisation diagnostics. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s293-s293.	0.3	0
39	Automated seeding for the optimization of crystal quality. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s294-s294.	0.3	0
40	Upside-down protein crystallization. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s294-s294.	0.3	0
41	Attenuated total reflection-FT-IR spectroscopic imaging of protein crystallization. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s294-s295.	0.3	0
42	New directions in conventional methods of protein crystallization. Progress in Biophysics and Molecular Biology, 2009, 101, 3-12.	2.9	50
43	Towards a "universal" nucleant for protein crystallization. Trends in Biotechnology, 2009, 27, 99-106.	9.3	121
44	Rigorous filtration for protein crystallization. Journal of Applied Crystallography, 2009, 42, 743-744.	4.5	10
45	Carbon-Nanotube-Based Materials for Protein Crystallization. ACS Applied Materials & Interfaces, 2009, 1, 1203-1210.	8.0	59
46	Crystallization by Controlled Evaporation Leading to High Resolution Crystals of the C1 Domain of Cardiac Myosin Binding Protein-C (cMyBP-C). Crystal Growth and Design, 2009, 9, 1729-1732.	3.0	4
47	The Role of Oil in Protein Crystallization. , 2009, , 129-144.		0
48	Attenuated Total Reflection-FT-IR Spectroscopic Imaging of Protein Crystallization. Analytical Chemistry, 2009, 81, 3769-3775.	6.5	34
49	High-Throughput Protein Crystallization. Advances in Protein Chemistry and Structural Biology, 2009, 77, 1-22.	2.3	20
50	Protein crystallization: from purified protein to diffraction-quality crystal. Nature Methods, 2008, 5, 147-153.	19.0	314
51	Dynamic Screening Experiments to Maximize Hits for Crystallization. Crystal Growth and Design, 2007, 7, 2171-2175.	3.0	14
52	A down-to-Earth approach. Nature, 2007, 448, 658-659.	27.8	16
53	Optimization Techniques for Automation and High Throughput. Methods in Molecular Biology, 2007, 363, 175-190.	0.9	16
54	Automation of non-conventional crystallization techniques for screening and optimization. , 2007, , 45-58.		1

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55	Experiment and theory for heterogeneous nucleation of protein crystals in a porous medium. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 597-601.	7.1	233
56	Protein Crystallization. , 2005, , 29-48.		0
57	Methods for separating nucleation and growth in protein crystallisation. Progress in Biophysics and Molecular Biology, 2005, 88, 329-337.	2.9	70
58	Turning protein crystallisation from an art into a science. Current Opinion in Structural Biology, 2004, 14, 577-583.	5.7	173
59	Size and Shape Determination of Proteins in Solution by a Noninvasive Depolarized Dynamic Light Scattering Instrument. Annals of the New York Academy of Sciences, 2004, 1027, 20-27.	3.8	20
60	A crystallization plate for controlling evaporation in hanging drops. Journal of Applied Crystallography, 2004, 37, 502-503.	4.5	21
61	Protein crystallization for genomics: throughput versus output. Journal of Structural and Functional Genomics, 2003, 4, 115-120.	1.2	20
62	Systematic Improvement of Protein Crystals by Determining the Supersolubility Curves of Phase Diagrams. Biophysical Journal, 2003, 84, 1218-1222.	0.5	52
63	The 1.45Å... three-dimensional structure of C-phycocyanin from the thermophilic cyanobacterium Synechococcus elongatus. Journal of Structural Biology, 2003, 141, 149-155.	2.8	67
64	Tackling the bottleneck of protein crystallization in the post-genomic era. Trends in Biotechnology, 2002, 20, 98.	9.3	54
65	Combination of oils and gels for enhancing the growth of protein crystals. Journal of Applied Crystallography, 2002, 35, 140-142.	4.5	40
66	Protein crystallization for genomics: towards high-throughput optimization techniques. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 921-927.	2.5	53
67	Separating nucleation and growth in protein crystallization using dynamic light scattering. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1597-1600.	2.5	29
68	Microgravity Protein Crystallization. Annals of the New York Academy of Sciences, 2002, 974, 591-597.	3.8	10
69	Is lysozyme really the ideal model protein?. Journal of Crystal Growth, 2001, 232, 262-264.	1.5	27
70	Improving protein crystal quality by decoupling nucleation and growth in vapor diffusion. Protein Science, 2000, 9, 755-757.	7.6	39
71	Bound-solvent structures for microgravity-, ground control-, gel- and microbatch-grown hen egg-white lysozyme crystals at 1.8 Å... resolution. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 745-752.	2.5	45
72	Space-grown crystals may prove their worth. Nature, 1999, 398, 20-20.	27.8	15

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73	Crystallization with oils: a new dimension in macromolecular crystal growth. <i>Journal of Crystal Growth</i> , 1999, 196, 434-441.	1.5	39
74	Recent advances in methodology for the crystallization of biological macromolecules. <i>Journal of Crystal Growth</i> , 1999, 198-199, 649-655.	1.5	23
75	Comparative Studies of Protein Crystallization by Vapour-Diffusion and Microbatch Techniques. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 8-15.	2.5	87
76	Protein crystal movements and fluid flows during microgravity growth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998, 356, 1045-1061.	3.4	17
77	Crystallogensis studies in microgravity with the Advanced Protein Crystallization Facility on SpaceHab-01. <i>Journal of Crystal Growth</i> , 1997, 181, 79-96.	1.5	32
78	The role of oil in macromolecular crystallization. <i>Structure</i> , 1997, 5, 1269-1274.	3.3	94
79	A novel technique for containerless protein crystallization. <i>Protein Engineering, Design and Selection</i> , 1996, 9, 927-929.	2.1	53
80	Control of nucleation in the crystallization of lysozyme. <i>Protein Science</i> , 1993, 2, 113-118.	7.6	41
81	Microbatch crystallization under oil "a new technique allowing many small-volume crystallization trials. <i>Journal of Crystal Growth</i> , 1992, 122, 176-180.	1.5	225
82	Crystallization of and preliminary X-ray data for the negative regulator (AmiC) of the amidase operon of <i>Pseudomonas aeruginosa</i> . <i>Journal of Molecular Biology</i> , 1991, 222, 869-871.	4.2	16
83	Many crystal forms of human immunodeficiency virus reverse transcriptase. <i>Journal of Molecular Biology</i> , 1991, 217, 19-22.	4.2	22