

Brent L Nannenga

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,675
citations

430442

18
h-index

301761

39
g-index

48
all docs

48
docs citations

48
times ranked

2953
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the toxic core of β -synuclein from invisible crystals. <i>Nature</i> , 2015, 525, 486-490.	13.7	528
2	High-resolution structure determination by continuous-rotation data collection in MicroED. <i>Nature Methods</i> , 2014, 11, 927-930.	9.0	340
3	Three-dimensional electron crystallography of protein microcrystals. <i>ELife</i> , 2013, 2, e01345.	2.8	340
4	High thermodynamic stability of parametrically designed helical bundles. <i>Science</i> , 2014, 346, 481-485.	6.0	264
5	The cryo-EM method microcrystal electron diffraction (MicroED). <i>Nature Methods</i> , 2019, 16, 369-379.	9.0	170
6	The collection of MicroED data for macromolecular crystallography. <i>Nature Protocols</i> , 2016, 11, 895-904.	5.5	117
7	Structure of catalase determined by MicroED. <i>ELife</i> , 2014, 3, e03600.	2.8	115
8	MicroED data collection and processing. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, 353-360.	0.0	115
9	Atomic structures of fibrillar segments of hIAPP suggest tightly mated β -sheets are important for cytotoxicity. <i>ELife</i> , 2017, 6, .	2.8	95
10	EKylation: Addition of an Alternating-Charge Peptide Stabilizes Proteins. <i>Biomacromolecules</i> , 2015, 16, 3357-3361.	2.6	51
11	Conformational Targeting of Fibrillar Polyglutamine Proteins in Live Cells Escalates Aggregation and Cytotoxicity. <i>PLoS ONE</i> , 2009, 4, e5727.	1.1	51
12	Reprogramming chaperone pathways to improve membrane protein expression in <i>Escherichia coli</i> . <i>Protein Science</i> , 2011, 20, 1411-1420.	3.1	47
13	Protein structure determination by MicroED. <i>Current Opinion in Structural Biology</i> , 2014, 27, 24-31.	2.6	46
14	MicroED opens a new era for biological structure determination. <i>Current Opinion in Structural Biology</i> , 2016, 40, 128-135.	2.6	46
15	MicroED structure of the human adenosine receptor determined from a single nanocrystal in LCP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	36
16	MicroED methodology and development. <i>Structural Dynamics</i> , 2020, 7, 014304.	0.9	34
17	Crystal structure and orientation of organic semiconductor thin films by microcrystal electron diffraction and grazing-incidence wide-angle X-ray scattering. <i>Chemical Communications</i> , 2020, 56, 4204-4207.	2.2	27
18	Overview of Electron Crystallography of Membrane Proteins: Crystallization and Screening Strategies Using Negative Stain Electron Microscopy. <i>Current Protocols in Protein Science</i> , 2013, 72, Unit17.15.	2.8	25

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19	MicroED: a versatile cryoEM method for structure determination. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 1-8.	1.1	22
20	Structure Determination from Lipidic Cubic Phase Embedded Microcrystals by MicroED. <i>Structure</i> , 2020, 28, 1149-1159.e4.	1.6	21
21	The complementarity of serial femtosecond crystallography and MicroED for structure determination from microcrystals. <i>Current Opinion in Structural Biology</i> , 2019, 58, 286-293.	2.6	18
22	Beam-sensitive metal-organic framework structure determination by microcrystal electron diffraction. <i>Ultramicroscopy</i> , 2020, 216, 113048.	0.8	18
23	Enhanced expression of membrane proteins in <i>E. coli</i> with a PBAD promoter mutant: synergies with chaperone pathway engineering strategies. <i>Microbial Cell Factories</i> , 2011, 10, 105.	1.9	16
24	The Evolution and the Advantages of MicroED. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 114.	1.6	15
25	Efficient Free Triplet Generation Follows Singlet Fission in Diketopyrrolopyrrole Polymorphs with Goldilocks Coupling. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12207-12213.	1.5	14
26	Enhancing the secretory yields of leech carboxypeptidase inhibitor in <i>Escherichia coli</i> : Influence of trigger factor and signal recognition particle. <i>Protein Expression and Purification</i> , 2010, 74, 122-128.	0.6	13
27	Anti-oligomeric single chain variable domain antibody differentially affects huntingtin and α -synuclein aggregates. <i>FEBS Letters</i> , 2008, 582, 517-522.	1.3	12
28	A story of thrift unfolds. <i>Nature Chemical Biology</i> , 2010, 6, 880-881.	3.9	10
29	Recent Developments Toward Integrated Metabolomics Technologies (UHPLC-MS-SPE-NMR and) <i>Trends in Analytical Chemistry</i> , 2021, 110, 102001.	1.6	9
30	MicroED for the study of protein-ligand interactions and the potential for drug discovery. <i>Nature Reviews Chemistry</i> , 2021, 1, 1-12.	13.8	8
31	MicroED Sample Preparation and Data Collection For Protein Crystals. <i>Methods in Molecular Biology</i> , 2021, 2215, 287-297.	0.4	7
32	Folding Engineering Strategies for Efficient Membrane Protein Production in <i>E. coli</i> . <i>Methods in Molecular Biology</i> , 2012, 899, 187-202.	0.4	6
33	Rapid Structural Analysis of a Synthetic Non-canonical Amino Acid by Microcrystal Electron Diffraction. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 609999.	1.6	6
34	Protein-facilitated gold nanoparticle formation as indicators of ionizing radiation. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3160-3167.	1.7	5
35	Electrophoretic exclusion microscale sample preparation for cryo-EM structural determination of proteins. <i>Biomicrofluidics</i> , 2019, 13, 054112.	1.2	5
36	Structural insights into the function of the catalytically active human Taspase1. <i>Structure</i> , 2021, 29, 873-885.e5.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Proteinâ€Nanoparticle Complex Structure Determination by Cryo-Electron Microscopy. ACS Applied Bio Materials, 2022, 5, 4696-4700.	2.3	3
38	Microcrystal electron diffraction methodology and applications. MRS Bulletin, 2019, 44, 956-960.	1.7	2
39	Heterologous expression and purification of the bicarbonate transporter BicA from <i>Synechocystis</i> sp. PCC 6803. Protein Expression and Purification, 2020, 175, 105716.	0.6	1
40	Structureâ€Guided identification of a peptide for bioâ€enabled gold nanoparticle synthesis. Biotechnology and Bioengineering, 2021, 118, 4867-4873.	1.7	1
41	Tetragonal crystal form of the cyanobacterial bicarbonate-transporter regulator SbtB from <i>Synechocystis</i> sp. PCC 6803. Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 438-443.	0.4	0