Brent L Nannenga

List of Publications by Year
in descending order

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	Proteinâ€“Nanoparticle Complex Structure Determination by Cryo-Electron Microscopy. ACS Applied Bio Materials, 2022, 5, 4696-4700.	2.3	3
2	Efficient Free Triplet Generation Follows Singlet Fission in Diketopyrrolopyrrole Polymorphs with Goldilocks Coupling. Journal of Physical Chemistry C, 2021, 125, 12207-12213.	1.5	14
3	MicroED structure of the human adenosine receptor determined from a single nanocrystal in LCP. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
4	Structural insights into the function of the catalytically active human Taspase1. Structure, 2021, 29, 873-885.e5.	1.6	4
5	Structureâ€guided identification of a peptide for bioâ€enabled gold nanoparticle synthesis. Biotechnology and Bioengineering, 2021, 118, 4867-4873.	1.7	1
6	Recent Developments Toward Integrated Metabolomics Technologies (UHPLC-MS-SPE-NMR and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 Biosciences, 2021, 8, 720955.	1.6	9
7	MicroED Sample Preparation and Data Collection For Protein Crystals. Methods in Molecular Biology, 2021, 2215, 287-297.	0.4	7
8	Heterologous expression and purification of the bicarbonate transporter BicA from Synechocystis sp. PCC 6803. Protein Expression and Purification, 2020, 175, 105716.	0.6	1
9	Structure Determination from Lipidic Cubic Phase Embedded Microcrystals by MicroED. Structure, 2020, 28, 1149-1159.e4.	1.6	21
10	Beam-sensitive metal-organic framework structure determination by microcrystal electron diffraction. Ultramicroscopy, 2020, 216, 113048.	0.8	18
11	Crystal structure and orientation of organic semiconductor thin films by microcrystal electron diffraction and grazing-incidence wide-angle X-ray scattering. Chemical Communications, 2020, 56, 4204-4207.	2.2	27
12	MicroED methodology and development. Structural Dynamics, 2020, 7, 014304.	0.9	34
13	Rapid Structural Analysis of a Synthetic Non-canonical Amino Acid by Microcrystal Electron Diffraction. Frontiers in Molecular Biosciences, 2020, 7, 609999.	1.6	6
14	Tetragonal crystal form of the cyanobacterial bicarbonate-transporter regulator SbtB from Synechocystis sp. PCC 6803. Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 438-443.	0.4	0
15	The complementarity of serial femtosecond crystallography and MicroED for structure determination from microcrystals. Current Opinion in Structural Biology, 2019, 58, 286-293.	2.6	18
16	Proteinâ€facilitated gold nanoparticle formation as indicators of ionizing radiation. Biotechnology and Bioengineering, 2019, 116, 3160-3167.	1.7	5
17	Electrophoretic exclusion microscale sample preparation for cryo-EM structural determination of proteins. Biomicrofluidics, 2019, 13, 054112.	1.2	5
18	The cryo-EM method microcrystal electron diffraction (MicroED). Nature Methods, 2019, 16, 369-379.	9.0	170

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19	Microcrystal electron diffraction methodology and applications. MRS Bulletin, 2019, 44, 956-960.	1.7	2
20	The Evolution and the Advantages of MicroED. Frontiers in Molecular Biosciences, 2018, 5, 114.	1.6	15
21	MicroED: a versatile cryoEM method for structure determination. Emerging Topics in Life Sciences, 2018, 2, 1-8.	1.1	22
22	Atomic structures of fibrillar segments of hIAPP suggest tightly mated Î²-sheets are important for cytotoxicity. ELife, 2017, 6, .	2.8	95
23	The collection of MicroED data for macromolecular crystallography. Nature Protocols, 2016, 11, 895-904.	5.5	117
24	MicroED opens a new era for biological structure determination. Current Opinion in Structural Biology, 2016, 40, 128-135.	2.6	46
25	MicroED data collection and processing. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 353-360.	0.0	115
26	EKylation: Addition of an Alternating-Charge Peptide Stabilizes Proteins. Biomacromolecules, 2015, 16, 3357-3361.	2.6	51
27	Structure of the toxic core of Î±-synuclein from invisible crystals. Nature, 2015, 525, 486-490.	13.7	528
28	Structure of catalase determined by MicroED. ELife, 2014, 3, e03600.	2.8	115
29	High thermodynamic stability of parametrically designed helical bundles. Science, 2014, 346, 481-485.	6.0	264
30	Protein structure determination by MicroED. Current Opinion in Structural Biology, 2014, 27, 24-31.	2.6	46
31	High-resolution structure determination by continuous-rotation data collection in MicroED. Nature Methods, 2014, 11, 927-930.	9.0	340
32	Overview of Electron Crystallography of Membrane Proteins: Crystallization and Screening Strategies Using Negative Stain Electron Microscopy. Current Protocols in Protein Science, 2013, 72, Unit17.15.	2.8	25
33	Three-dimensional electron crystallography of protein microcrystals. ELife, 2013, 2, e01345.	2.8	340
34	Folding Engineering Strategies for Efficient Membrane Protein Production in E. coli. Methods in Molecular Biology, 2012, 899, 187-202.	0.4	6
35	Enhanced expression of membrane proteins in E. coli with a PBAD promoter mutant: synergies with chaperone pathway engineering strategies. Microbial Cell Factories, 2011, 10, 105.	1.9	16
36	Reprogramming chaperone pathways to improve membrane protein expression in Escherichia coli. Protein Science, 2011, 20, 1411-1420.	3.1	47

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37	A story of thrift unfolds. Nature Chemical Biology, 2010, 6, 880-881.	3.9	10
38	Enhancing the secretory yields of leech carboxypeptidase inhibitor in Escherichia coli: Influence of trigger factor and signal recognition particle. Protein Expression and Purification, 2010, 74, 122-128.	0.6	13
39	Conformational Targeting of Fibrillar Polyglutamine Proteins in Live Cells Escalates Aggregation and Cytotoxicity. PLoS ONE, 2009, 4, e5727.	1.1	51
40	Antiâ€oligomeric single chain variable domain antibody differentially affects huntingtin and Î±â€synuclein aggregates. FEBS Letters, 2008, 582, 517-522.	1.3	12
41	MicroED for the study of proteinâ€“ligand interactions and the potential for drug discovery. Nature Reviews Chemistry, 0, , .	13.8	8