

Andrew D Miranker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

5,373

citations

36

h-index

68

g-index

68

ext. papers

5,779

ext. citations

9.2

avg, IF

5.79

L-index

#	Paper	IF	Citations
62	Detection of transient protein folding populations by mass spectrometry. <i>Science</i> , 1993 , 262, 896-900	33.3	555
61	Global unfolding of a substrate protein by the Hsp100 chaperone ClpA. <i>Nature</i> , 1999 , 401, 90-3	50.4	371
60	Phospholipid catalysis of diabetic amyloid assembly. <i>Journal of Molecular Biology</i> , 2004 , 341, 1175-87	6.5	290
59	Islet amyloid: phase partitioning and secondary nucleation are central to the mechanism of fibrillogenesis. <i>Biochemistry</i> , 2002 , 41, 4694-703	3.2	276
58	Conserved and cooperative assembly of membrane-bound alpha-helical states of islet amyloid polypeptide. <i>Biochemistry</i> , 2006 , 45, 9496-508	3.2	271
57	Protein-induced photophysical changes to the amyloid indicator dye thioflavin T. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16863-8	11.5	231
56	The interplay of catalysis and toxicity by amyloid intermediates on lipid bilayers: insights from type II diabetes. <i>Annual Review of Biophysics</i> , 2009 , 38, 125-52	21.1	187
55	Direct detection of transient alpha-helical states in islet amyloid polypeptide. <i>Protein Science</i> , 2007 , 16, 110-7	6.3	178
54	A native to amyloidogenic transition regulated by a backbone trigger. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 202-8	17.6	177
53	Fiber-dependent amyloid formation as catalysis of an existing reaction pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12341-6	11.5	173
52	Investigation of protein folding by mass spectrometry. <i>FASEB Journal</i> , 1996 , 10, 93-101	0.9	169
51	Mechanistic studies of the folding of human lysozyme and the origin of amyloidogenic behavior in its disease-related variants. <i>Biochemistry</i> , 1999 , 38, 6419-27	3.2	160
50	Kidney dialysis-associated amyloidosis: a molecular role for copper in fiber formation. <i>Journal of Molecular Biology</i> , 2001 , 309, 339-45	6.5	151
49	Helix stabilization precedes aqueous and bilayer-catalyzed fiber formation in islet amyloid polypeptide. <i>Journal of Molecular Biology</i> , 2009 , 393, 383-96	6.5	149
48	Common mechanism unites membrane poration by amyloid and antimicrobial peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6382-7	11.5	122
47	Oligomeric assembly of native-like precursors precedes amyloid formation by beta-2 microglobulin. <i>Biochemistry</i> , 2004 , 43, 7808-15	3.2	117
46	Islet amyloid polypeptide: identification of long-range contacts and local order on the fibrillogenesis pathway. <i>Journal of Molecular Biology</i> , 2001 , 308, 783-94	6.5	114

45	Islet amyloid polypeptide demonstrates a persistent capacity to disrupt membrane integrity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9460-5	11.5	113
44	The mechanism of insulin action on islet amyloid polypeptide fiber formation. <i>Journal of Molecular Biology</i> , 2004 , 335, 221-31	6.5	97
43	Formation of a copper specific binding site in non-native states of beta-2-microglobulin. <i>Biochemistry</i> , 2002 , 41, 10646-56	3.2	95
42	Synthetic alpha-helix mimetics as agonists and antagonists of islet amyloid polypeptide aggregation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 736-9	16.4	89
41	Hydrogen exchange properties of proteins in native and denatured states monitored by mass spectrometry and NMR. <i>Protein Science</i> , 1997 , 6, 1316-24	6.3	87
40	A regulatable switch mediates self-association in an immunoglobulin fold. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 965-71	17.6	80
39	A peptidomimetic approach to targeting pre-amyloidogenic states in type II diabetes. <i>Chemistry and Biology</i> , 2009 , 16, 943-50		76
38	Concentration-dependent transitions govern the subcellular localization of islet amyloid polypeptide. <i>FASEB Journal</i> , 2012 , 26, 1228-38	0.9	69
37	Interaction of membrane-bound islet amyloid polypeptide with soluble and crystalline insulin. <i>Protein Science</i> , 2008 , 17, 1850-6	6.3	68
36	A common landscape for membrane-active peptides. <i>Protein Science</i> , 2013 , 22, 870-82	6.3	60
35	Contribution of the intrinsic disulfide to the assembly mechanism of islet amyloid. <i>Protein Science</i> , 2005 , 14, 231-9	6.3	60
34	Amide inequivalence in the fibrillar assembly of islet amyloid polypeptide. <i>Protein Engineering, Design and Selection</i> , 2008 , 21, 147-54	1.9	47
33	Direct measurement of islet amyloid polypeptide fibrillogenesis by mass spectrometry. <i>Protein Science</i> , 2000 , 9, 427-31	6.3	45
32	Foldamer-mediated manipulation of a pre-amyloid toxin. <i>Nature Communications</i> , 2016 , 7, 11412	17.4	43
31	Single-molecule fluorescence spectroscopy using phospholipid bilayer nanodiscs. <i>Methods in Enzymology</i> , 2010 , 472, 89-117	1.7	43
30	Cooperative Elements in Protein Folding Monitored by Electrospray Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1995 , 117, 7548-7549	16.4	42
29	Islet amyloid-induced cell death and bilayer integrity loss share a molecular origin targetable with oligopyridylamide-based helical mimetics. <i>Chemistry and Biology</i> , 2015 , 22, 369-78		40
28	A foldamer approach to targeting membrane bound helical states of islet amyloid polypeptide. <i>Chemical Communications</i> , 2013 , 49, 4749-51	5.8	37

27	From chance to frequent encounters: origins of beta2-microglobulin fibrillogenesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005 , 1753, 92-9	4	36
26	A membrane-bound antiparallel dimer of rat islet amyloid polypeptide. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10859-62	16.4	35
25	Metal binding sheds light on mechanisms of amyloid assembly. <i>Prion</i> , 2009 , 3, 1-4	2.3	35
24	Formation of a stable oligomer of beta-2 microglobulin requires only transient encounter with Cu(II). <i>Journal of Molecular Biology</i> , 2007 , 367, 1-7	6.5	34
23	Conformational switching within dynamic oligomers underpins toxic gain-of-function by diabetes-associated amyloid. <i>Nature Communications</i> , 2018 , 9, 1312	17.4	30
22	Characterization of collapsed states in the early stages of the refolding of hen lysozyme. <i>Biochemistry</i> , 1998 , 37, 8473-80	3.2	30
21	Protein complexes and analysis of their assembly by mass spectrometry. <i>Current Opinion in Structural Biology</i> , 2000 , 10, 601-6	8.1	29
20	Identification of N-linked glycans as specific mediators of neuronal uptake of acetylated β -Synuclein. <i>PLoS Biology</i> , 2019 , 17, e3000318	9.7	25
19	Amphiphilic oligoamide β -helix peptidomimetics inhibit islet amyloid polypeptide aggregation. <i>Tetrahedron Letters</i> , 2015 , 56, 3670-3673	2	24
18	Folded small molecule manipulation of islet amyloid polypeptide. <i>Chemistry and Biology</i> , 2014 , 21, 775-81		21
17	Fiber-dependent and -independent toxicity of islet amyloid polypeptide. <i>Biophysical Journal</i> , 2014 , 107, 2559-66	2.9	21
16	The role of prefibrillar structures in the assembly of a peptide amyloid. <i>Journal of Molecular Biology</i> , 2009 , 393, 214-26	6.5	21
15	Unzipping the mysteries of amyloid fiber formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 4335-6	11.5	19
14	Delineating the conformational elements responsible for Cu(2+)-induced oligomerization of beta-2 microglobulin. <i>Biochemistry</i> , 2009 , 48, 6610-7	3.2	16
13	Foldamer scaffolds suggest distinct structures are associated with alternative gains-of-function in a preamyloid toxin. <i>Chemical Communications</i> , 2016 , 52, 6391-4	5.8	14
12	Small molecule screening in context: lipid-catalyzed amyloid formation. <i>Protein Science</i> , 2014 , 23, 1341-86.3		13
11	Scope and utility of hydrogen exchange as a tool for mapping landscapes. <i>Protein Science</i> , 2007 , 16, 2378-90	6.9	12
10	Data Sanitization to Reduce Private Information Leakage from Functional Genomics. <i>Cell</i> , 2020 , 183, 905-917.e16	56.2	10

9	Structure-Based Small Molecule Modulation of a Pre-Amyloid State: Pharmacological Enhancement of IAPP Membrane-Binding and Toxicity. <i>Biochemistry</i> , 2015 , 54, 3555-64	3.2	10
8	Influence of the Human and Rat Islet Amyloid Polypeptides on Structure of Phospholipid Bilayers: Neutron Reflectometry and Fluorescence Microscopy Studies. <i>Langmuir</i> , 2016 , 32, 4382-91	4	9
7	Targeting the Intrinsically Disordered Proteome Using Small-Molecule Ligands. <i>Methods in Enzymology</i> , 2018 , 611, 703-734	1.7	9
6	Peptide amyloid surface display. <i>Biochemistry</i> , 2015 , 54, 987-93	3.2	7
5	Mapping Protein Conformational Landscapes under Strongly Native Conditions with Hydrogen Exchange Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10016-24	3.4	5
4	A Membrane-Bound Antiparallel Dimer of Rat Islet Amyloid Polypeptide. <i>Angewandte Chemie</i> , 2011 , 123, 11051-11054	3.6	2
3	STEM Climate survey developed through student/faculty collaboration. <i>Teaching in Higher Education</i> , 2021 , 26, 65-80	1.4	2
2	Quantitative measurement of fibrillogenesis by mass spectrometry. <i>Methods in Molecular Biology</i> , 2005 , 299, 185-94	1.4	1
1	A solenoid design for assessing determinants of parallel β -sheet registration. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 577-83	1.9	