

Andrew D Miranker

List of Publications by Year in descending order

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64
papers

6,010
citations

94433

37
h-index

114465

63
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68
all docs

68
docs citations

68
times ranked

4748
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of transient protein folding populations by mass spectrometry. <i>Science</i> , 1993, 262, 896-900.	12.6	590
2	Global unfolding of a substrate protein by the Hsp100 chaperone ClpA. <i>Nature</i> , 1999, 401, 90-93.	27.8	408
3	Phospholipid Catalysis of Diabetic Amyloid Assembly. <i>Journal of Molecular Biology</i> , 2004, 341, 1175-1187.	4.2	328
4	Islet Amyloid:â€‰Phase Partitioning and Secondary Nucleation Are Central to the Mechanism of Fibrillogenesis. <i>Biochemistry</i> , 2002, 41, 4694-4703.	2.5	302
5	Conserved and Cooperative Assembly of Membrane-Bound Î±-Helical States of Islet Amyloid Polypeptideâ€‰. <i>Biochemistry</i> , 2006, 45, 9496-9508.	2.5	295
6	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, 16863-16868.	7.1	275
7	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, 125-152.	10.0	211
8	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, 12341-12346.	7.1	199
9	Direct detection of transient Î±-helical states in islet amyloid polypeptide. <i>Protein Science</i> , 2007, 16, 110-117.	7.6	196
10	A native to amyloidogenic transition regulated by a backbone trigger. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 202-208.	8.2	188
11	Investigation of protein folding by mass spectrometry. <i>FASEB Journal</i> , 1996, 10, 93-101.	0.5	175
12	Helix Stabilization Precedes Aqueous and Bilayer-Catalyzed Fiber Formation in Islet Amyloid Polypeptide. <i>Journal of Molecular Biology</i> , 2009, 393, 383-396.	4.2	170
13	Mechanistic Studies of the Folding of Human Lysozyme and the Origin of Amyloidogenic Behavior in Its Disease-Related Variants. <i>Biochemistry</i> , 1999, 38, 6419-6427.	2.5	165
14	Kidney dialysis-associated amyloidosis: a molecular role for copper in fiber formation. <i>Journal of Molecular Biology</i> , 2001, 309, 339-345.	4.2	162
15	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, 6382-6387.	7.1	157
16	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, 9460-9465.	7.1	127
17	Oligomeric Assembly of Native-like Precursors Precedes Amyloid Formation by Î²-2 Microglobulin. <i>Biochemistry</i> , 2004, 43, 7808-7815.	2.5	121
18	Islet amyloid polypeptide: identification of long-range contacts and local order on the fibrillogenesis pathway 1 1Edited by F. Cohen. <i>Journal of Molecular Biology</i> , 2001, 308, 783-794.	4.2	120

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19	Synthetic α -Helix Mimetics as Agonists and Antagonists of Islet Amyloid Polypeptide Aggregation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 736-739.	13.8	109
20	The Mechanism of Insulin Action on Islet Amyloid Polypeptide Fiber Formation. <i>Journal of Molecular Biology</i> , 2004, 335, 221-231.	4.2	105
21	Formation of a Copper Specific Binding Site in Non-Native States of β -2-Microglobulin. <i>Biochemistry</i> , 2002, 41, 10646-10656.	2.5	103
22	Hydrogen exchange properties of proteins in native and denatured states monitored by mass spectrometry and NMR. <i>Protein Science</i> , 1997, 6, 1316-1324.	7.6	90
23	A Peptidomimetic Approach to Targeting Pre-amyloidogenic States in Type II Diabetes. <i>Chemistry and Biology</i> , 2009, 16, 943-950.	6.0	88
24	A regulatable switch mediates self-association in an immunoglobulin fold. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 965-971.	8.2	83
25	A common landscape for membrane-active peptides. <i>Protein Science</i> , 2013, 22, 870-882.	7.6	77
26	Concentration-dependent transitions govern the subcellular localization of islet amyloid polypeptide. <i>FASEB Journal</i> , 2012, 26, 1228-1238.	0.5	76
27	Interaction of membrane-bound islet amyloid polypeptide with soluble and crystalline insulin. <i>Protein Science</i> , 2008, 17, 1850-1856.	7.6	73
28	Contribution of the intrinsic disulfide to the assembly mechanism of islet amyloid. <i>Protein Science</i> , 2009, 14, 231-239.	7.6	61
29	Foldamer-mediated manipulation of a pre-amyloid toxin. <i>Nature Communications</i> , 2016, 7, 11412.	12.8	56
30	Islet Amyloid-Induced Cell Death and Bilayer Integrity Loss Share a Molecular Origin Targetable with Oligopyridylamide-Based α -Helical Mimetics. <i>Chemistry and Biology</i> , 2015, 22, 369-378.	6.0	55
31	Amide inequivalence in the fibrillar assembly of islet amyloid polypeptide. <i>Protein Engineering, Design and Selection</i> , 2008, 21, 147-154.	2.1	52
32	Conformational switching within dynamic oligomers underpins toxic gain-of-function by diabetes-associated amyloid. <i>Nature Communications</i> , 2018, 9, 1312.	12.8	50
33	Single-Molecule Fluorescence Spectroscopy Using Phospholipid Bilayer Nanodiscs. <i>Methods in Enzymology</i> , 2010, 472, 89-117.	1.0	49
34	Cooperative Elements in Protein Folding Monitored by Electrospray Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 1995, 117, 7548-7549.	13.7	47
35	Direct measurement of islet amyloid polypeptide fibrillogenesis by mass spectrometry. <i>Protein Science</i> , 2000, 9, 427-431.	7.6	47
36	A foldamer approach to targeting membrane bound helical states of islet amyloid polypeptide. <i>Chemical Communications</i> , 2013, 49, 4749.	4.1	42

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37	Identification of N-linked glycans as specific mediators of neuronal uptake of acetylated α -Synuclein. <i>PLoS Biology</i> , 2019, 17, e3000318.	5.6	42
38	From chance to frequent encounters: Origins of α 2-microglobulin fibrillogenesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 92-99.	2.3	40
39	Metal binding sheds light on mechanisms of amyloid assembly. <i>Prion</i> , 2009, 3, 1-4.	1.8	38
40	Formation of a Stable Oligomer of α 2-Microglobulin Requires only Transient Encounter with Cu(II). <i>Journal of Molecular Biology</i> , 2007, 367, 1-7.	4.2	37
41	A Membrane-Bound Antiparallel Dimer of Rat Islet Amyloid Polypeptide. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10859-10862.	13.8	37
42	Protein complexes and analysis of their assembly by mass spectrometry. <i>Current Opinion in Structural Biology</i> , 2000, 10, 601-606.	5.7	32
43	Characterization of Collapsed States in the Early Stages of the Refolding of Hen Lysozyme. <i>Biochemistry</i> , 1998, 37, 8473-8480.	2.5	31
44	Amphiphilic oligoamide α -helix peptidomimetics inhibit islet amyloid polypeptide aggregation. <i>Tetrahedron Letters</i> , 2015, 56, 3670-3673.	1.4	31
45	Fiber-Dependent and -Independent Toxicity of Islet Amyloid Polypeptide. <i>Biophysical Journal</i> , 2014, 107, 2559-2566.	0.5	28
46	Data Sanitization to Reduce Private Information Leakage from Functional Genomics. <i>Cell</i> , 2020, 183, 905-917.e16.	28.9	28
47	Folded Small Molecule Manipulation of Islet Amyloid Polypeptide. <i>Chemistry and Biology</i> , 2014, 21, 775-781.	6.0	24
48	The Role of Prefibrillar Structures in the Assembly of a Peptide Amyloid. <i>Journal of Molecular Biology</i> , 2009, 393, 214-226.	4.2	22
49	Unzipping the mysteries of amyloid fiber formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4335-4336.	7.1	20
50	Foldamer scaffolds suggest distinct structures are associated with alternative gains-of-function in a preamyloid toxin. <i>Chemical Communications</i> , 2016, 52, 6391-6394.	4.1	20
51	Delineating the Conformational Elements Responsible for Cu ²⁺ -Induced Oligomerization of α 2-Microglobulin. <i>Biochemistry</i> , 2009, 48, 6610-6617.	2.5	17
52	Small molecule screening in context: Lipid-catalyzed amyloid formation. <i>Protein Science</i> , 2014, 23, 1341-1348.	7.6	15
53	Scope and utility of hydrogen exchange as a tool for mapping landscapes. <i>Protein Science</i> , 2007, 16, 2378-2390.	7.6	14
54	Targeting the Intrinsically Disordered Proteome Using Small-Molecule Ligands. <i>Methods in Enzymology</i> , 2018, 611, 703-734.	1.0	14

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55	Structure-Based Small Molecule Modulation of a Pre-Amyloid State: Pharmacological Enhancement of IAPP Membrane-Binding and Toxicity. <i>Biochemistry</i> , 2015, 54, 3555-3564.	2.5	11
56	Recent Insight in Islet Amyloid Polypeptide Morphology, Structure, Membrane Interaction, and Toxicity in Type 2 Diabetes. <i>Journal of Diabetes Research</i> , 2016, 2016, 1-2.	2.3	11
57	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, 4382-4391.	3.5	11
58	Fibres hinge on swapped domains. <i>Nature</i> , 2005, 437, 197-198.	27.8	7
59	Peptide Amyloid Surface Display. <i>Biochemistry</i> , 2015, 54, 987-993.	2.5	7
60	Mapping Protein Conformational Landscapes under Strongly Native Conditions with Hydrogen Exchange Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10016-10024.	2.6	7
61	p53 succumbs to peer pressure. <i>Nature Chemical Biology</i> , 2011, 7, 248-249.	8.0	5
62	STEM Climate survey developed through student-faculty collaboration. <i>Teaching in Higher Education</i> , 2021, 26, 65-80.	2.6	4
63	Quantitative Measurement of Fibrillogenesis by Mass Spectrometry. , 2005, 299, 185-194.		1
64	A solenoid design for assessing determinants of parallel β -sheet registration. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 577-583.	2.1	0