

John A Carver

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198
papers

9,482
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58
h-index

89
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204
ext. papers

10,342
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
198	The thioflavin T fluorescence assay for amyloid fibril detection can be biased by the presence of exogenous compounds. <i>FEBS Journal</i> , 2009 , 276, 5960-72	5.7	395
197	Clusterin has chaperone-like activity similar to that of small heat shock proteins. <i>Journal of Biological Chemistry</i> , 1999 , 274, 6875-81	5.4	323
196	Invited review: Caseins and the casein micelle: their biological functions, structures, and behavior in foods. <i>Journal of Dairy Science</i> , 2013 , 96, 6127-46	4	261
195	The structure of melittin. A 1H-NMR study in methanol. <i>FEBS Journal</i> , 1988 , 173, 139-46		209
194	Clusterin is an ATP-independent chaperone with very broad substrate specificity that stabilizes stressed proteins in a folding-competent state. <i>Biochemistry</i> , 2000 , 39, 15953-60	3.2	204
193	The antibiotic and anticancer active aurein peptides from the Australian Bell Frogs <i>Litoria aurea</i> and <i>Litoria raniformis</i> the solution structure of aurein 1.2. <i>FEBS Journal</i> , 2000 , 267, 5330-41		197
192	Crystallin proteins and amyloid fibrils. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 62-81	10.3	196
191	Host-defence peptides of Australian anurans: structure, mechanism of action and evolutionary significance. <i>Peptides</i> , 2004 , 25, 1035-54	3.8	190
190	Interaction of the molecular chaperone alphaB-crystallin with alpha-synuclein: effects on amyloid fibril formation and chaperone activity. <i>Journal of Molecular Biology</i> , 2004 , 340, 1167-83	6.5	179
189	Amyloid fibril formation by bovine milk kappa-casein and its inhibition by the molecular chaperones alphaS- and beta-casein. <i>Biochemistry</i> , 2005 , 44, 17027-36	3.2	167
188	The structured core domain of B-crystallin can prevent amyloid fibrillation and associated toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1562-70	11.5	154
187	Mimicking phosphorylation of alphaB-crystallin affects its chaperone activity. <i>Biochemical Journal</i> , 2007 , 401, 129-41	3.8	147
186	Small heat-shock proteins and clusterin: intra- and extracellular molecular chaperones with a common mechanism of action and function?. <i>IUBMB Life</i> , 2003 , 55, 661-8	4.7	147
185	Amyloid fibril formation by lens crystallin proteins and its implications for cataract formation. <i>Journal of Biological Chemistry</i> , 2004 , 279, 3413-9	5.4	140
184	Small heat-shock proteins: important players in regulating cellular proteostasis. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 429-451	10.3	138
183	High-resolution 1H NMR study of the solution structure of alamethicin. <i>Biochemistry</i> , 1987 , 26, 1043-50	3.2	132
182	Identification by 1H NMR spectroscopy of flexible C-terminal extensions in bovine lens alpha-crystallin. <i>FEBS Letters</i> , 1992 , 311, 143-9	3.8	130

181	Binding of the molecular chaperone β -crystallin to A β amyloid fibrils inhibits fibril elongation. <i>Biophysical Journal</i> , 2011 , 101, 1681-9	2.9	122
180	The interaction of alpha β -crystallin with mature alpha-synuclein amyloid fibrils inhibits their elongation. <i>Biophysical Journal</i> , 2010 , 98, 843-51	2.9	120
179	Casein proteins as molecular chaperones. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 2670-83	5.7	119
178	(-)-epigallocatechin-3-gallate (EGCG) maintains kappa-casein in its pre-fibrillar state without redirecting its aggregation pathway. <i>Journal of Molecular Biology</i> , 2009 , 392, 689-700	6.5	117
177	The solution structure and activity of caerin 1.1, an antimicrobial peptide from the Australian green tree frog, <i>Litoria splendida</i> . <i>FEBS Journal</i> , 1997 , 247, 545-57		112
176	Immobilization of the C-terminal extension of bovine alphaA-crystallin reduces chaperone-like activity. <i>Journal of Biological Chemistry</i> , 1996 , 271, 29060-6	5.4	105
175	The growing world of small heat shock proteins: from structure to functions. <i>Cell Stress and Chaperones</i> , 2017 , 22, 601-611	4	101
174	Clusterin is an extracellular chaperone that specifically interacts with slowly aggregating proteins on their off-folding pathway. <i>FEBS Letters</i> , 2002 , 513, 259-66	3.8	99
173	The interaction of the molecular chaperone alpha-crystallin with unfolding alpha-lactalbumin: a structural and kinetic spectroscopic study. <i>Journal of Molecular Biology</i> , 2002 , 318, 815-27	6.5	99
172	A possible chaperone-like quaternary structure for alpha-crystallin. <i>Experimental Eye Research</i> , 1994 , 59, 231-4	3.7	96
171	Mouse Hsp25, a small shock protein. The role of its C-terminal extension in oligomerization and chaperone action. <i>FEBS Journal</i> , 2000 , 267, 1923-32		95
170	Amyloid fibril formation by bovine milk alpha s2-casein occurs under physiological conditions yet is prevented by its natural counterpart, alpha s1-casein. <i>Biochemistry</i> , 2008 , 47, 3926-36	3.2	88
169	On the interaction of alpha-crystallin with unfolded proteins. <i>BBA - Proteins and Proteomics</i> , 1995 , 1252, 251-60		87
168	Characterisation of amyloid fibril formation by small heat-shock chaperone proteins human alphaA-, alphaB- and R120G alphaB-crystallins. <i>Journal of Molecular Biology</i> , 2007 , 372, 470-84	6.5	85
167	The interaction of the molecular chaperone, alpha-crystallin, with molten globule states of bovine alpha-lactalbumin. <i>Journal of Biological Chemistry</i> , 1997 , 272, 27722-9	5.4	84
166	NMR spectroscopy of alpha-crystallin. Insights into the structure, interactions and chaperone action of small heat-shock proteins. <i>International Journal of Biological Macromolecules</i> , 1998 , 22, 197-209	7.9	84
165	Maculatin 1.1, an anti-microbial peptide from the Australian tree frog, <i>Litoria genimaculata</i> solution structure and biological activity. <i>FEBS Journal</i> , 2000 , 267, 1894-908		83
164	The molecular chaperone, alpha-crystallin, inhibits amyloid formation by apolipoprotein C-II. <i>Journal of Biological Chemistry</i> , 2001 , 276, 33755-61	5.4	83

163	Gallic acid is the major component of grape seed extract that inhibits amyloid fibril formation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 6336-40	2.9	82
162	Structural alterations of alpha-crystallin during its chaperone action. <i>FEBS Journal</i> , 1998 , 258, 170-83		81
161	The mammalian small heat-shock protein Hsp20 forms dimers and is a poor chaperone. <i>FEBS Journal</i> , 1998 , 258, 1014-21		77
160	The molecular chaperone α -crystallin is in kinetic competition with aggregation to stabilize a monomeric molten-globule form of α -lactalbumin. <i>Biochemical Journal</i> , 2001 , 354, 79-87	3.8	75
159	R120G α B-crystallin promotes the unfolding of reduced α -lactalbumin and is inherently unstable. <i>FEBS Journal</i> , 2005 , 272, 711-24	5.7	73
158	Mildly acidic pH activates the extracellular molecular chaperone clusterin. <i>Journal of Biological Chemistry</i> , 2002 , 277, 39532-40	5.4	73
157	Small Heat-shock Proteins Prevent β -Synuclein Aggregation via Transient Interactions and Their Efficacy Is Affected by the Rate of Aggregation. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22618-22629	5.4	73
156	Small heat-shock proteins interact with a flanking domain to suppress polyglutamine aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10424-9	11.5	72
155	Gallic acid interacts with β -synuclein to prevent the structural collapse necessary for its aggregation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 1481-5	4	71
154	Single molecule characterization of the interactions between amyloid- β peptides and the membranes of hippocampal cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1491-8	16.4	68
153	Alpha-crystallin: molecular chaperone and protein surfactant. <i>BBA - Proteins and Proteomics</i> , 1994 , 1204, 195-206		68
152	Age-related changes in bovine alpha-crystallin and high-molecular-weight protein. <i>Experimental Eye Research</i> , 1996 , 63, 639-47	3.7	67
151	Dissociation from the oligomeric state is the rate-limiting step in fibril formation by kappa-casein. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9012-22	5.4	66
150	R2P after Libya and Syria: Engaging Emerging Powers. <i>Washington Quarterly</i> , 2013 , 36, 61-76	1.3	65
149	Amyloid- β oligomers are sequestered by both intracellular and extracellular chaperones. <i>Biochemistry</i> , 2012 , 51, 9270-6	3.2	65
148	Host defence peptides from the skin glands of the Australian blue mountains tree-frog <i>Litoria citropa</i> . Solution structure of the antibacterial peptide citropin 1.1. <i>FEBS Journal</i> , 1999 , 265, 627-37		65
147	Oxidation products of 3-hydroxykynurenine bind to lens proteins: relevance for nuclear cataract. <i>Experimental Eye Research</i> , 1997 , 64, 727-35	3.7	64
146	Preventing β -synuclein aggregation: the role of the small heat-shock molecular chaperone proteins. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1830-43	6.9	61

145	Evidence that clusterin has discrete chaperone and ligand binding sites. <i>Biochemistry</i> , 2002 , 41, 282-91	3.2	61
144	Investigating the importance of the flexible hinge in caerin 1.1: solution structures and activity of two synthetically modified caerin peptides. <i>Biochemistry</i> , 2004 , 43, 937-44	3.2	60
143	nNOS inhibition, antimicrobial and anticancer activity of the amphibian skin peptide, citropin 1.1 and synthetic modifications. The solution structure of a modified citropin 1.1. <i>FEBS Journal</i> , 2003 , 270, 1141-53		60
142	Non-oxidative modification of lens crystallins by kynurenine: a novel post-translational protein modification with possible relevance to ageing and cataract. <i>BBA - Proteins and Proteomics</i> , 2000 , 1476, 265-78		59
141	Identification of glutathionyl-3-hydroxykynurenine glucoside as a novel fluorophore associated with aging of the human lens. <i>Journal of Biological Chemistry</i> , 1999 , 274, 20847-54	5.4	58
140	Unraveling the mysteries of protein folding and misfolding. <i>IUBMB Life</i> , 2008 , 60, 769-74	4.7	57
139	Probing the structure and interactions of crystallin proteins by NMR spectroscopy. <i>Progress in Retinal and Eye Research</i> , 1999 , 18, 431-62	20.5	56
138	¹ H NMR spectroscopy reveals that mouse Hsp25 has a flexible C-terminal extension of 18 amino acids. <i>FEBS Letters</i> , 1995 , 369, 305-10	3.8	55
137	Monitoring the prevention of amyloid fibril formation by alpha-crystallin. Temperature dependence and the nature of the aggregating species. <i>FEBS Journal</i> , 2007 , 274, 6290-304	5.7	52
136	The effect of small molecules in modulating the chaperone activity of alphaB-crystallin against ordered and disordered protein aggregation. <i>FEBS Journal</i> , 2008 , 275, 935-47	5.7	52
135	The molecular chaperone alpha-crystallin is in kinetic competition with aggregation to stabilize a monomeric molten-globule form of alpha-lactalbumin. <i>Biochemical Journal</i> , 2001 , 354, 79-87	3.8	52
134	B-Crystallin inhibits the cell toxicity associated with amyloid fibril formation by β -casein and the amyloid- β peptide. <i>Cell Stress and Chaperones</i> , 2010 , 15, 1013-26	4	51
133	A new UV-filter compound in human lenses. <i>FEBS Letters</i> , 1994 , 348, 173-6	3.8	51
132	Structural characterization of piperidine alkaloids from <i>Pandanus amaryllifolius</i> by inverse-detected 2D NMR techniques. <i>Phytochemistry</i> , 1993 , 34, 1159-1163	4	51
131	A quantitative NMR spectroscopic examination of the flexibility of the C-terminal extensions of the molecular chaperones, A- and B-crystallin. <i>Experimental Eye Research</i> , 2010 , 91, 691-9	3.7	50
130	The chaperone action of bovine milk B1- and B2-caseins and their associated form B-casein. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 510, 42-52	4.1	46
129	An investigation into the stability of alpha-crystallin by NMR spectroscopy; evidence for a two-domain structure. <i>BBA - Proteins and Proteomics</i> , 1993 , 1164, 22-8		46
128	Darwinian transformation of a 'scarcely nutritious fluid' into milk. <i>Journal of Evolutionary Biology</i> , 2012 , 25, 1253-63	2.3	45

127	Monitoring Early-Stage Protein Aggregation by an Aggregation-Induced Emission Fluorogen. <i>Analytical Chemistry</i> , 2017 , 89, 9322-9329	7.8	44
126	Elucidation of a novel polypeptide cross-link involving 3-hydroxykynurenine. <i>Biochemistry</i> , 1999 , 38, 11455-64	5.64	44
125	Casein structures in the context of unfolded proteins. <i>International Dairy Journal</i> , 2015 , 46, 2-11	3.5	42
124	Protein nanostructures in food [Should we be worried?]. <i>Trends in Food Science and Technology</i> , 2014 , 37, 42-50	15.3	42
123	The dissociated form of kappa-casein is the precursor to its amyloid fibril formation. <i>Biochemical Journal</i> , 2010 , 429, 251-60	3.8	42
122	Avoiding the oligomeric state: B-crystallin inhibits fragmentation and induces dissociation of apolipoprotein C-II amyloid fibrils. <i>FASEB Journal</i> , 2013 , 27, 1214-22	0.9	41
121	How representative are brics?. <i>Third World Quarterly</i> , 2014 , 35, 1791-1808	1.5	41
120	The quaternary organization and dynamics of the molecular chaperone HSP26 are thermally regulated. <i>Chemistry and Biology</i> , 2010 , 17, 1008-17		41
119	Decreased heat stability and increased chaperone requirement of modified human betaB1-crystallins. <i>Molecular Vision</i> , 2002 , 8, 359-66	2.3	41
118	Site-directed mutations in the C-terminal extension of human alphaB-crystallin affect chaperone function and block amyloid fibril formation. <i>PLoS ONE</i> , 2007 , 2, e1046	3.7	38
117	Measurement of amyloid formation by turbidity assay-seeing through the cloud. <i>Biophysical Reviews</i> , 2016 , 8, 445-471	3.7	38
116	Assignment of 1H NMR resonances of histidine and other aromatic residues in met-, cyano-, oxy-, and (carbon monoxy)myoglobins. <i>Biochemistry</i> , 1984 , 23, 4890-905	3.2	37
115	Dephosphorylation of alpha(s)- and beta-caseins and its effect on chaperone activity: a structural and functional investigation. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 5956-64	5.7	36
114	A high resolution 1H NMR study of the solution structure of human epidermal growth factor. <i>FEBS Letters</i> , 1986 , 205, 77-81	3.8	35
113	Intracellular Protein Unfolding and Aggregation: The Role of Small Heat-Shock Chaperone Proteins. <i>Australian Journal of Chemistry</i> , 2003 , 56, 357	1.2	34
112	Polypeptide modification and cross-linking by oxidized 3-hydroxykynurenine. <i>Biochemistry</i> , 2000 , 39, 16176-84	3.2	34
111	The functional roles of the unstructured N- and C-terminal regions in B-crystallin and other mammalian small heat-shock proteins. <i>Cell Stress and Chaperones</i> , 2017 , 22, 627-638	4	33
110	The selective inhibition of serpin aggregation by the molecular chaperone, alpha-crystallin, indicates a nucleation-dependent specificity. <i>Journal of Biological Chemistry</i> , 2003 , 278, 48644-50	5.4	33

109	NMR identification of a partial helical conformation for bombesin in solution. <i>FEBS Journal</i> , 1990 , 187, 645-50		33
108	The conformation of bombesin in solution as determined by two-dimensional 1H-NMR techniques. <i>FEBS Journal</i> , 1987 , 168, 193-9		33
107	The elusive role of the N-terminal extension of beta A3- and beta A1-crystallin. <i>Protein Engineering, Design and Selection</i> , 1996 , 9, 1021-8	1.9	31
106	1H nuclear magnetic resonance studies of an integral membrane protein: subunit c of the F1F0 ATP synthase. <i>Journal of Molecular Biology</i> , 1987 , 193, 759-74	6.5	31
105	Structural differences between bovine A(1) and A(2) β -casein alter micelle self-assembly and influence molecular chaperone activity. <i>Journal of Dairy Science</i> , 2015 , 98, 2172-82	4	30
104	A multi-pathway perspective on protein aggregation: implications for control of the rate and extent of amyloid formation. <i>FEBS Letters</i> , 2015 , 589, 672-9	3.8	29
103	Protein aggregate turbidity: Simulation of turbidity profiles for mixed-aggregation reactions. <i>Analytical Biochemistry</i> , 2016 , 498, 78-94	3.1	29
102	Monitoring the interaction between β -microglobulin and the molecular chaperone β -crystallin by NMR and mass spectrometry: β -crystallin dissociates β -microglobulin oligomers. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17844-58	5.4	29
101	The small heat-shock chaperone protein, alpha-crystallin, does not recognize stable molten globule states of cytosolic proteins. <i>BBA - Proteins and Proteomics</i> , 2000 , 1481, 175-88		29
100	The solution structure of uperin 3.6, an antibiotic peptide from the granular dorsal glands of the Australian toadlet, <i>Uperoleia mjobergii</i> . <i>Chemical Biology and Drug Design</i> , 1999 , 54, 137-45		29
99	Supramolecular order within the lens: 1H NMR spectroscopic evidence for specific crystallin-crystallin interactions. <i>Experimental Eye Research</i> , 1994 , 59, 607-16	3.7	28
98	Proteostasis and the Regulation of Intra- and Extracellular Protein Aggregation by ATP-Independent Molecular Chaperones: Lens β -Crystallins and Milk Caseins. <i>Accounts of Chemical Research</i> , 2018 , 51, 745-752	24.3	27
97	1H-NMR spectroscopy of beta B2-crystallin from bovine eye lens. Conformation of the N- and C-terminal extensions. <i>FEBS Journal</i> , 1993 , 213, 313-20		27
96	The Structure and Stability of the Disulfide-Linked β -Crystallin Dimer Provide Insight into Oxidation Products Associated with Lens Cataract Formation. <i>Journal of Molecular Biology</i> , 2019 , 431, 483-497	6.5	27
95	Carboxymethylated-kappa-casein: a convenient tool for the identification of polyphenolic inhibitors of amyloid fibril formation. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 222-8	3.4	26
94	Probing the disulfide folding pathway of insulin-like growth factor-I 1999 , 62, 693-703		26
93	1H-NMR spectroscopy of bovine lens beta-crystallin. The role of the beta B2-crystallin C-terminal extension in aggregation. <i>FEBS Journal</i> , 1993 , 213, 321-8		26
92	NMR spectroscopy of 14-3-3 η reveals a flexible C-terminal extension: differentiation of the chaperone and phosphoserine-binding activities of 14-3-3 η . <i>Biochemical Journal</i> , 2011 , 437, 493-503	3.8	25

91	Model for amorphous aggregation processes. <i>Physical Review E</i> , 2009 , 80, 051907	2.4	25
90	Structural comparison between retro-inverso and parent peptides: molecular basis for the biological activity of a retro-inverso analogue of the immunodominant fragment of VP1 coat protein from foot-and-mouth disease virus. <i>Biopolymers</i> , 1997 , 41, 569-90	2.2	25
89	Deamidation of N76 in human β -crystallin promotes dimer formation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 315-24	4	24
88	Methionine oxidation enhances β -casein amyloid fibril formation. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 4144-55	5.7	24
87	Glutamic acid residues in the C-terminal extension of small heat shock protein 25 are critical for structural and functional integrity. <i>FEBS Journal</i> , 2008 , 275, 5885-98	5.7	24
86	Terminal Regions Confer Plasticity to the Tetrameric Assembly of Human HspB2 and HspB3. <i>Journal of Molecular Biology</i> , 2018 , 430, 3297-3310	6.5	24
85	A spectroscopic study of glycosylated bovine alpha-crystallin: investigation of flexibility of the C-terminal extension, chaperone activity and evidence for diglycation. <i>BBA - Proteins and Proteomics</i> , 1997 , 1343, 299-315		23
84	Formation of betaA3/betaB2-crystallin mixed complexes: involvement of N- and C-terminal extensions. <i>BBA - Proteins and Proteomics</i> , 1999 , 1432, 286-92		23
83	A 1H NMR spectroscopic comparison of gamma S- and gamma B-crystallins. <i>Experimental Eye Research</i> , 1994 , 59, 211-20	3.7	22
82	Coaggregation of β -Casein and β -Lactoglobulin Produces Morphologically Distinct Amyloid Fibrils. <i>Small</i> , 2017 , 13, 1603591	11	21
81	The Amyloid Fibril-Forming Properties of the Amphibian Antimicrobial Peptide Uperin 3.5. <i>ChemBioChem</i> , 2016 , 17, 239-46	3.8	21
80	Protein nanofibres of defined morphology prepared from mixtures of crude crystallins. <i>International Journal of Nanotechnology</i> , 2009 , 6, 258	1.5	21
79	The effect of dextran on subunit exchange of the molecular chaperone alphaA-crystallin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007 , 1774, 102-11	4	21
78	The Nuclear Ban Treaty: Recasting a Normative Framework for Disarmament. <i>Washington Quarterly</i> , 2017 , 40, 71-95	1.3	20
77	The chaperone activity of β -synuclein: Utilizing deletion mutants to map its interaction with target proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012 , 80, 1316-25	4.2	20
76	The interaction of unfolding β -actalbumin and malate dehydrogenase with the molecular chaperone β -crystallin: a light and X-ray scattering investigation. <i>Molecular Vision</i> , 2010 , 16, 2446-56	2.3	20
75	A radish seed antifungal peptide with a high amyloid fibril-forming propensity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013 , 1834, 1615-23	4	19
74	Solution structure and backbone dynamics of long-[Arg(3)]insulin-like growth factor-I. <i>Journal of Biological Chemistry</i> , 2000 , 275, 10009-15	5.4	19

73	Selective labelling of peptides using (dienyl) iron tricarbonyl cations. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 928		18
72	NMR studies of the Na ⁺ , Mg ²⁺ and Ca ²⁺ complexes of cyclosporin A. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 1682		18
71	Identification of 3-hydroxykynurenine as the lens pigment in the gourami <i>Trichogaster trichopterus</i> . <i>Experimental Eye Research</i> , 1992 , 54, 1015-7	3.7	18
70	Amyloid aggregation and membrane activity of the antimicrobial peptide uperin 3.5. <i>Peptide Science</i> , 2018 , 110, e24052	3	17
69	Hemin as a generic and potent protein misfolding inhibitor. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 454, 295-300	3.4	16
68	Functional Amyloid Protection in the Eye Lens: Retention of β Crystallin Molecular Chaperone Activity after Modification into Amyloid Fibrils. <i>Biomolecules</i> , 2017 , 7,	5.9	16
67	Structural investigation of the hedamycin:d(ACCGGT) ₂ complex by NMR and restrained molecular dynamics. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 290, 1602-8	3.4	16
66	R2P's Structural Problems: A Response to Roland Paris. <i>International Peacekeeping</i> , 2015 , 22, 11-25	1.4	15
65	The Effect of Milk Constituents and Crowding Agents on Amyloid Fibril Formation by β Casein. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 1335-43	5.7	15
64	Conformational differences between various myoglobin ligated states as monitored by ¹ H NMR spectroscopy. <i>Biochemistry</i> , 1984 , 23, 4905-13	3.2	15
63	Sequence characteristics responsible for protein-protein interactions in the intrinsically disordered regions of caseins, amelogenins, and small heat-shock proteins. <i>Biopolymers</i> , 2019 , 110, e23319	2.2	14
62	The solution structures and activity of caerin 1.1 and caerin 1.4 in aqueous trifluoroethanol and dodecylphosphocholine micelles. <i>Biopolymers</i> , 2003 , 69, 42-59	2.2	14
61	Ion Mobility Mass Spectrometry Studies of the Inhibition of Alpha Synuclein Amyloid Fibril Formation by (-)-Epigallocatechin-3-Gallate. <i>Australian Journal of Chemistry</i> , 2011 , 64, 36	1.2	13
60	The multifaceted nature of β -crystallin. <i>Cell Stress and Chaperones</i> , 2020 , 25, 639-654	4	12
59	Enhanced molecular chaperone activity of the small heat-shock protein alphaB-cystallin following covalent immobilization onto a solid-phase support. <i>Biopolymers</i> , 2011 , 95, 376-89	2.2	12
58	Loss of the C-terminal serine residue from bovine beta B2-crystallin. <i>Experimental Eye Research</i> , 1995 , 60, 465-9	3.7	12
57	Role of salt bridges in the dimer interface of 14-3-3 η dimer dynamics, N-terminal helical order, and molecular chaperone activity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 89-99	5.4	12
56	A Spectroscopic Marker for Structural Transitions Associated with Amyloid- β Aggregation. <i>Biochemistry</i> , 2020 , 59, 1813-1822	3.2	11

55	SEVI, the semen enhancer of HIV infection along with fragments from its central region, form amyloid fibrils that are toxic to neuronal cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 1591-8	4	11
54	The solution structure of frenatin 3, a neuronal nitric oxide synthase inhibitor from the giant tree frog, <i>Litoria infrafrenata</i> . <i>Biopolymers</i> , 2003 , 70, 424-34	2.2	11
53	¹ H-nmr Assignments of Anonaine and Xylopine Derivatives from <i>Talauma gitingensis</i> . <i>Journal of Natural Products</i> , 1990 , 53, 1623-1627	4.9	11
52	Metabolic effects of interleukin 3 on 32D cl23 cells analyzed by NMR. <i>Journal of Cellular Physiology</i> , 1987 , 133, 351-7	7	11
51	Selective NMR Experiments on Macromolecules: Implementation and Analysis of QUIET-NOESY. <i>Journal of Magnetic Resonance</i> , 1998 , 132, 204-13	3	10
50	Cumulative deamidations of the major lens protein β -crystallin increase its aggregation during unfolding and oxidation. <i>Protein Science</i> , 2020 , 29, 1945-1963	6.3	10
49	Functional and dysfunctional folding, association and aggregation of caseins. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019 , 118, 163-216	5.3	10
48	The Kinetics of Amyloid Fibrillar Aggregation of Uperin 3.5 Is Directed by the Peptide's Secondary Structure. <i>Biochemistry</i> , 2019 , 58, 3656-3668	3.2	9
47	Glucoindole alkaloids from <i>Ophiorrhiza acuminata</i> . <i>Planta Medica</i> , 1995 , 61, 278-80	3.1	9
46	The molecular chaperone β casein prevents amorphous and fibrillar aggregation of β lactalbumin by stabilisation of dynamic disorder. <i>Biochemical Journal</i> , 2020 , 477, 629-643	3.8	9
45	FACILE DETECTION OF ORGANOMETALLIC DERIVATIVES OF PEPTIDES USING ELECTROSPRAY MASS SPECTROMETRY. <i>Journal of Coordination Chemistry</i> , 1995 , 34, 351-355	1.6	8
44	Primary structure of trypsin inhibitors from <i>Sicyos australis</i> . <i>Phytochemistry</i> , 1996 , 41, 1265-74	4	8
43	Preliminary communication. <i>Journal of Organometallic Chemistry</i> , 1993 , 454, C11-C12	2.3	8
42	Recognizing and analyzing variability in amyloid formation kinetics: Simulation and statistical methods. <i>Analytical Biochemistry</i> , 2016 , 510, 56-71	3.1	8
41	A structural and functional study of Gln147 deamidation in β -crystallin, a site of modification in human cataract. <i>Experimental Eye Research</i> , 2017 , 161, 163-173	3.7	7
40	Investigation of gammaE-crystallin target protein binding to bovine lens alpha-crystallin by small-angle neutron scattering. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010 , 1800, 392-7	4	7
39	The eye lens protein alphaA-crystallin of the blind mole rat <i>Spalax ehrenbergi</i> : effects of altered functional constraints. <i>Experimental Eye Research</i> , 2002 , 74, 285-91	3.7	7
38	Caerin 4.1, an Antibiotic Peptide from the Australian Tree Frog, <i>Litoria caerulea</i> . The N.M.R.-Derived Solution Structure.. <i>Australian Journal of Chemistry</i> , 2000 , 53, 257	1.2	7

37	[2,3] Sigmatropic rearrangement of 1-vinyl tetrahydroisoquinoline N-ylides and N-oxides.. <i>Tetrahedron Letters</i> , 1993 , 34, 3331-3334	2	7
36	A New Furanosesterpene From the Marine Sponge <i>Psammocinia rugosa</i> . <i>Australian Journal of Chemistry</i> , 1989 , 42, 1805	1.2	7
35	Letter to the Editor: A response to Horne and Lucey (2017). <i>Journal of Dairy Science</i> , 2017 , 100, 5121-5124		6
34	Secondary structure determination of ¹⁵ N-labelled human Long-[Arg-3]-insulin-like growth factor 1 by multidimensional NMR spectroscopy. <i>FEBS Letters</i> , 1997 , 420, 97-102	3.8	6
33	A two dimensional ¹ H NMR study of the solution conformation of gastrin releasing peptide. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 150, 552-60	3.4	6
32	The Aggregation of B-Crystallin under Crowding Conditions Is Prevented by A-Crystallin: Implications for B-Crystallin Stability and Lens Transparency. <i>Journal of Molecular Biology</i> , 2020 , 432, 5593-5613	6.5	6
31	Assignments of meso ¹ H NMR resonances in haem proteins by selective deuteration. <i>FEBS Letters</i> , 1982 , 146, 297-301	3.8	5
30	Quantitative multivalent binding model of the structure, size distribution and composition of the casein micelles of cow milk. <i>International Dairy Journal</i> , 2021 , 105292	3.5	5
29	Amyloid fibrils from readily available sources: milk casein and lens crystallin proteins. <i>Methods in Molecular Biology</i> , 2013 , 996, 103-17	1.4	4
28	The molecular basis of kirromycin (mocimycin) action; a ¹ H NMR study using deuterated elongation factor Tu. <i>Journal of Antibiotics</i> , 1988 , 41, 202-6	3.7	4
27	The membrane-active amphibian peptide caerin 1.8 inhibits fibril formation of amyloid A-42. <i>Peptides</i> , 2015 , 73, 1-6	3.8	3
26	A novel protein distance matrix based on the minimum arc-length between two amino-acid residues on the surface of a globular protein. <i>Biophysical Chemistry</i> , 2014 , 190-191, 50-5	3.5	3
25	Protection gaps for civilian victims of political violence. <i>South African Journal of International Affairs</i> , 2013 , 20, 321-338	0.5	3
24	Solution conformation of bovine lens alpha- and betaB2-crystallin terminal extensions. <i>International Journal of Peptide and Protein Research</i> , 1996 , 47, 9-19		3
23	NMR spectroscopy of large proteins. <i>Annual Reports on NMR Spectroscopy</i> , 2002 , 48, 31-69	1.7	3
22	Threats without Enemies, Security without Borders: Environmental Security in East Asia. <i>Journal of East Asian Studies</i> , 2001 , 1, 161-189	0.2	3
21	Histidine H-2 n.m.r. resonances of sperm whale oxy-, carbonyl-, and met-myoglobin. <i>Journal of the Chemical Society Chemical Communications</i> , 1981 , 208		3
20	Native disulphide-linked dimers facilitate amyloid fibril formation by bovine milk B-casein. <i>Biophysical Chemistry</i> , 2021 , 270, 106530	3.5	3

19	RNA-LIM: a novel procedure for analyzing protein/single-stranded RNA propensity data with concomitant estimation of interface structure. <i>Analytical Biochemistry</i> , 2015 , 472, 52-61	3.1	2
18	Japan and the Nuclear Weapons Prohibition Treaty: The Wrong Side of History, Geography, Legality, Morality, and Humanity. <i>Journal for Peace and Nuclear Disarmament</i> , 2018 , 1, 11-31	0.4	2
17	Dynamism in molecular chaperones. <i>Journal of Molecular Biology</i> , 2011 , 413, 295-6	6.5	2
16	βSynuclein: An Enigmatic Protein with Diverse Functionality.. <i>Biomolecules</i> , 2022 , 12,	5.9	2
15	Accumulative deamidation of human lens protein β-crystallin leads to partially unfolded intermediates with enhanced aggregation propensity		2
14	The Effect of Oxidized Dopamine on the Structure and Molecular Chaperone Function of the Small Heat-Shock Proteins, β-Crystallin and Hsp27. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
13	Real-time monitoring of amyloid growth in a rigid gel matrix. <i>Analytical Biochemistry</i> , 2016 , 511, 13-6	3.1	2
12	Nuclear Turbulence in the Age of Trump. <i>Diplomacy and Statecraft</i> , 2018 , 29, 105-128	0.2	1
11	Polymorphism in Casein Protein Aggregation and Amyloid Fibril Formation 2014 , 323-331		1
10	Host-Defense Peptides from the Secretion of the Skin Glands of Frogs and Toads 2009 , 333-355		1
9	Application of the Double-Mutant Cycle Strategy to Protein Aggregation Reveals Transient Interactions in Amyloid-β Oligomers. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12426-12435	3.4	1
8	Ethics, International Affairs and Western Double Standards. <i>Asia and the Pacific Policy Studies</i> , 2016 , 3, 370-377	2.3	1
7	Crystallins, cataract, and dynamic lens proteostasis. A commentary on P.W.N. Schmid, N.C.H. Lim, C. Peters, K.C. Back, B. Bourgeois, F. Pirolto, B. Richter, J. Peschek, O. Puk, O.V. Amarie, C. Dalke, M. Haslbeck, S. Weinkauff, T. Madl, J. Graw, and J. Buchner (2021) Imbalances in the eye lens proteome are linked to cataract formation, <i>Nat. Struct. Mol. Biol.</i> 28, 143-151. doi: 10.1038/s41594-020-00543-9. <i>Experimental Eye Research</i> 2021 , 208, 108619	3.7	0
6	Eye Lens Crystallins: Remarkable Long-Lived Proteins 2021 , 59-96		0
5	Artificial Nanostructures in Food 2017 , 49-68		
4	Resurgent Asia: diversity in development. <i>International Affairs</i> , 2020 , 96, 534-536	0.8	
3	Breaking through the Global Politics of Climate Change Policy. <i>Washington Quarterly</i> , 2020 , 43, 51-71	1.3	
2	Preparation, Processing and Applications of Protein Nanofibers 2013 , 599-612		

- 1 Structure-Function Studies on Bombesin and Related Peptides: Biological Effects on Swiss 3T3 Cells and Two-Dimensional ¹H-NMR Analysis. *Annals of the New York Academy of Sciences*, **1988**, 547, 481-483^{6.5}