John A Carver

List of Publications by Year in Descending Order

198 papers	9,482 citations	58 h-index	89 g-index
204 ext. papers	10,342 ext. citations	4.2 avg, IF	6.11 L-index

#	Paper	IF	Citations
198	Synuclein: An Enigmatic Protein with Diverse Functionality.. *Biomolecules*, **2022**, 12,	5.9	2
197	Application of the Double-Mutant Cycle Strategy to Protein Aggregation Reveals Transient Interactions in Amyloid-Oligomers. *Journal of Physical Chemistry B*, **2021**, 125, 12426-12435	3.4	1
196	Quantitative multivalent binding model of the structure, size distribution and composition of the casein micelles of cow milk. *International Dairy Journal*, **2021**, 105292	3.5	5
195	The Effect of Oxidized Dopamine on the Structure and Molecular Chaperone Function of the Small Heat-Shock Proteins, B-Crystallin and Hsp27. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
194	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. Pirolt, B. Richter, J. Peschek, O. Puk, O.V. Amarie, C. Dalke, M. Haslbeck, S. Weinkauf, T. Madl, J. Graw, and J. Buchner (2021) Imbalances in the eye lens proteome are linked to cataract formation, Nat. Struct. Mol. Biol.28, 143-151, doi:	3.7	0
193	Native disulphide-linked dimers facilitate amyloid fibril formation by bovine milk casein. *Biophysical Chemistry*, **2021**, 270, 106530	3.5	3
192	Eye Lens Crystallins: Remarkable Long-Lived Proteins **2021**, 59-96		0
191	Resurgent Asia: diversity in development. *International Affairs*, **2020**, 96, 534-536	0.8	
190	The multifaceted nature of B-crystallin. *Cell Stress and Chaperones*, **2020**, 25, 639-654	4	12
189	Breaking through the Global Politics of Climate Change Policy. *Washington Quarterly*, **2020**, 43, 51-71	1.3	
188	A Spectroscopic Marker for Structural Transitions Associated with Amyloid-Aggregation. *Biochemistry*, **2020**, 59, 1813-1822	3.2	11
187	The molecular chaperone casein prevents amorphous and fibrillar aggregation of lactalbumin by stabilisation of dynamic disorder. *Biochemical Journal*, **2020**, 477, 629-643	3.8	9
186	Cumulative deamidations of the major lens protein S-crystallin increase its aggregation during unfolding and oxidation. *Protein Science*, **2020**, 29, 1945-1963	6.3	10
185	The Aggregation of B-Crystallin under Crowding Conditions Is Prevented by A-Crystallin: Implications for Crystallin Stability and Lens Transparency. *Journal of Molecular Biology*, **2020**, 432, 5593-5613	6.5	6
184	The Kinetics of Amyloid Fibrillar Aggregation of Uperin 3.5 Is Directed by the Peptide's Secondary Structure. *Biochemistry*, **2019**, 58, 3656-3668	3.2	9
183	Sequence characteristics responsible for protein-protein interactions in the intrinsically disordered regions of caseins, amelogenins, and small heat-shock proteins. *Biopolymers*, **2019**, 110, e23319	2.2	14
182	Functional and dysfunctional folding, association and aggregation of caseins. *Advances in Protein Chemistry and Structural Biology*, **2019**, 118, 163-216	5.3	10

181	The Structure and Stability of the Disulfide-Linked S-Crystallin Dimer Provide Insight into Oxidation Products Associated with Lens Cataract Formation. *Journal of Molecular Biology*, **2019**, 431, 483-497	6.5	27
180	Amyloid aggregation and membrane activity of the antimicrobial peptide uperin 3.5. *Peptide Science*, **2018**, 110, e24052	3	17
179	Proteostasis and the Regulation of Intra- and Extracellular Protein Aggregation by ATP-Independent Molecular Chaperones: Lens Crystallins and Milk Caseins. *Accounts of Chemical Research*, **2018**, 51, 745-752	24.3	27
178	Nuclear Turbulence in the Age of Trump. *Diplomacy and Statecraft*, **2018**, 29, 105-128	0.2	1
177	Japan and the Nuclear Weapons Prohibition Treaty: The Wrong Side of History, Geography, Legality, Morality, and Humanity. *Journal for Peace and Nuclear Disarmament*, **2018**, 1, 11-31	0.4	2
176	Role of salt bridges in the dimer interface of 14-3-3 in dimer dynamics, N-terminal helical order, and molecular chaperone activity. *Journal of Biological Chemistry*, **2018**, 293, 89-99	5.4	12
175	Terminal Regions Confer Plasticity to the Tetrameric Assembly of Human HspB2 and HspB3. *Journal of Molecular Biology*, **2018**, 430, 3297-3310	6.5	24
174	Coaggregation of Casein and Lactoglobulin Produces Morphologically Distinct Amyloid Fibrils. *Small*, **2017**, 13, 1603591	11	21
173	The functional roles of the unstructured N- and C-terminal regions in B-crystallin and other mammalian small heat-shock proteins. *Cell Stress and Chaperones*, **2017**, 22, 627-638	4	33
172	A structural and functional study of Gln147 deamidation in A-crystallin, a site of modification in human cataract. *Experimental Eye Research*, **2017**, 161, 163-173	3.7	7
171	Artificial Nanostructures in Food **2017**, 49-68		
170	The growing world of small heat shock proteins: from structure to functions. *Cell Stress and Chaperones*, **2017**, 22, 601-611	4	101
169	Monitoring Early-Stage Protein Aggregation by an Aggregation-Induced Emission Fluorogen. *Analytical Chemistry*, **2017**, 89, 9322-9329	7.8	44
168	Letter to the Editor: A response to Horne and Lucey (2017). *Journal of Dairy Science*, **2017**, 100, 5121-5124	4	6
167	The Nuclear Ban Treaty: Recasting a Normative Framework for Disarmament. *Washington Quarterly* , **2017**, 40, 71-95	1.3	20
166	Functional Amyloid Protection in the Eye Lens: Retention of Crystallin Molecular Chaperone Activity after Modification into Amyloid Fibrils. *Biomolecules*, **2017**, 7,	5.9	16
165	The Amyloid Fibril-Forming Properties of the Amphibian Antimicrobial Peptide Uperin 3.5. *ChemBioChem*, **2016**, 17, 239-46	3.8	21
164	Protein aggregate turbidity: Simulation of turbidity profiles for mixed-aggregation reactions. *Analytical Biochemistry*, **2016**, 498, 78-94	3.1	29

163	Deamidation of N76 in human S-crystallin promotes dimer formation. *Biochimica Et Biophysica Acta - General Subjects*, **2016**, 1860, 315-24	4	24
162	The Effect of Milk Constituents and Crowding Agents on Amyloid Fibril Formation by Casein. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 1335-43	5.7	15
161	Measurement of amyloid formation by turbidity assay-seeing through the cloud. *Biophysical Reviews*, **2016**, 8, 445-471	3.7	38
160	Ethics, International Affairs and Western Double Standards. *Asia and the Pacific Policy Studies*, **2016**, 3, 370-377	2.3	1
159	Small Heat-shock Proteins Prevent Synuclein Aggregation via Transient Interactions and Their Efficacy Is Affected by the Rate of Aggregation. *Journal of Biological Chemistry*, **2016**, 291, 22618-22629	5.4	73
158	Real-time monitoring of amyloid growth in a rigid gel matrix. *Analytical Biochemistry*, **2016**, 511, 13-6	3.1	2
157	Recognizing and analyzing variability in amyloid formation kinetics: Simulation and statistical methods. *Analytical Biochemistry*, **2016**, 510, 56-71	3.1	8
156	A multi-pathway perspective on protein aggregation: implications for control of the rate and extent of amyloid formation. *FEBS Letters*, **2015**, 589, 672-9	3.8	29
155	R2P's Structural Problems: A Response to Roland Paris. *International Peacekeeping*, **2015**, 22, 11-25	1.4	15
154	RNA-LIM: a novel procedure for analyzing protein/single-stranded RNA propensity data with concomitant estimation of interface structure. *Analytical Biochemistry*, **2015**, 472, 52-61	3.1	2
153	Structural differences between bovine A(1) and A(2) casein alter micelle self-assembly and influence molecular chaperone activity. *Journal of Dairy Science*, **2015**, 98, 2172-82	4	30
152	The membrane-active amphibian peptide caerin 1.8 inhibits fibril formation of amyloid 1-42. *Peptides*, **2015**, 73, 1-6	3.8	3
151	Small heat-shock proteins: important players in regulating cellular proteostasis. *Cellular and Molecular Life Sciences*, **2015**, 72, 429-451	10.3	138
150	Casein structures in the context of unfolded proteins. *International Dairy Journal*, **2015**, 46, 2-11	3.5	42
149	Hemin as a generic and potent protein misfolding inhibitor. *Biochemical and Biophysical Research Communications*, **2014**, 454, 295-300	3.4	16
148	SEVI, the semen enhancer of HIV infection along with fragments from its central region, form amyloid fibrils that are toxic to neuronal cells. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2014**, 1844, 1591-8	4	11
147	Preventing synuclein aggregation: the role of the small heat-shock molecular chaperone proteins. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 1830-43	6.9	61
146	Protein nanostructures in food Should we be worried?. *Trends in Food Science and Technology*, **2014**, 37, 42-50	15.3	42

145	How representative are brics?. *Third World Quarterly*, **2014**, 35, 1791-1808	1.5	41
144	Polymorphism in Casein Protein Aggregation and Amyloid Fibril Formation **2014**, 323-331		1
143	The structured core domain of B-crystallin can prevent amyloid fibrillation and associated toxicity. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1562-70	11.5	154
142	A novel protein distance matrix based on the minimum arc-length between two amino-acid residues on the surface of a globular protein. *Biophysical Chemistry*, **2014**, 190-191, 50-5	3.5	3
141	Gallic acid interacts with synuclein to prevent the structural collapse necessary for its aggregation. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2014**, 1844, 1481-5	4	71
140	A radish seed antifungal peptide with a high amyloid fibril-forming propensity. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2013**, 1834, 1615-23	4	19
139	Invited review: Caseins and the casein micelle: their biological functions, structures, and behavior in foods. *Journal of Dairy Science*, **2013**, 96, 6127-46	4	261
138	Preparation, Processing and Applications of Protein Nanofibers **2013**, 599-612		
137	Gallic acid is the major component of grape seed extract that inhibits amyloid fibril formation. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 6336-40	2.9	82
136	R2P after Libya and Syria: Engaging Emerging Powers. *Washington Quarterly*, **2013**, 36, 61-76	1.3	65
135	Avoiding the oligomeric state: B-crystallin inhibits fragmentation and induces dissociation of apolipoprotein C-II amyloid fibrils. *FASEB Journal*, **2013**, 27, 1214-22	0.9	41
134	Amyloid fibrils from readily available sources: milk casein and lens crystallin proteins. *Methods in Molecular Biology*, **2013**, 996, 103-17	1.4	4
133	Single molecule characterization of the interactions between amyloid- peptides and the membranes of hippocampal cells. *Journal of the American Chemical Society*, **2013**, 135, 1491-8	16.4	68
132	Protection gaps for civilian victims of political violence. *South African Journal of International Affairs* , **2013**, 20, 321-338	0.5	3
131	Monitoring the interaction between 2-microglobulin and the molecular chaperone B-crystallin by NMR and mass spectrometry: B-crystallin dissociates 2-microglobulin oligomers. *Journal of Biological Chemistry*, **2013**, 288, 17844-58	5.4	29
130	Darwinian transformation of a 'scarcely nutritious fluid' into milk. *Journal of Evolutionary Biology*, **2012**, 25, 1253-63	2.3	45
129	Methionine oxidation enhances casein amyloid fibril formation. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 4144-55	5.7	24
128	Amyloid- oligomers are sequestered by both intracellular and extracellular chaperones. *Biochemistry*, **2012**, 51, 9270-6	3.2	65

127	The chaperone activity of □synuclein: Utilizing deletion mutants to map its interaction with target proteins. *Proteins: Structure, Function and Bioinformatics*, **2012**, 80, 1316-25	4.2	20
126	Binding of the molecular chaperone Β-crystallin to A□amyloid fibrils inhibits fibril elongation. *Biophysical Journal*, **2011**, 101, 1681-9	2.9	122
125	The chaperone action of bovine milk Κ1- and Κ2-caseins and their associated form Κ-casein. *Archives of Biochemistry and Biophysics*, **2011**, 510, 42-52	4.1	46
124	Dynamism in molecular chaperones. *Journal of Molecular Biology*, **2011**, 413, 295-6	6.5	2
123	NMR spectroscopy of 14-3-3□reveals a flexible C-terminal extension: differentiation of the chaperone and phosphoserine-binding activities of 14-3-3□*Biochemical Journal*, **2011**, 437, 493-503	3.8	25
122	Ion Mobility Mass Spectrometry Studies of the Inhibition of Alpha Synuclein Amyloid Fibril Formation by (-)-Epigallocatechin-3-Gallate. *Australian Journal of Chemistry*, **2011**, 64, 36	1.2	13
121	Enhanced molecular chaperone activity of the small heat-shock protein alphaB-crystallin following covalent immobilization onto a solid-phase support. *Biopolymers*, **2011**, 95, 376-89	2.2	12
120	The dissociated form of kappa-casein is the precursor to its amyloid fibril formation. *Biochemical Journal*, **2010**, 429, 251-60	3.8	42
119	Small heat-shock proteins interact with a flanking domain to suppress polyglutamine aggregation. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 10424-9	11.5	72
118	The interaction of alphaB-crystallin with mature alpha-synuclein amyloid fibrils inhibits their elongation. *Biophysical Journal*, **2010**, 98, 843-51	2.9	120
117	Investigation of gammaE-crystallin target protein binding to bovine lens alpha-crystallin by small-angle neutron scattering. *Biochimica Et Biophysica Acta - General Subjects*, **2010**, 1800, 392-7	4	7
116	A quantitative NMR spectroscopic examination of the flexibility of the C-terminal extensions of the molecular chaperones, Α- and Β-crystallin. *Experimental Eye Research*, **2010**, 91, 691-9	3.7	50
115	Carboxymethylated-kappa-casein: a convenient tool for the identification of polyphenolic inhibitors of amyloid fibril formation. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 222-8	3.4	26
114	Β-Crystallin inhibits the cell toxicity associated with amyloid fibril formation by □casein and the amyloid-□peptide. *Cell Stress and Chaperones*, **2010**, 15, 1013-26	4	51
113	The quaternary organization and dynamics of the molecular chaperone HSP26 are thermally regulated. *Chemistry and Biology*, **2010**, 17, 1008-17		41
112	The interaction of unfolding □actalbumin and malate dehydrogenase with the molecular chaperone Β-crystallin: a light and X-ray scattering investigation. *Molecular Vision*, **2010**, 16, 2446-56	2.3	20
111	Crystallin proteins and amyloid fibrils. *Cellular and Molecular Life Sciences*, **2009**, 66, 62-81	10.3	196
110	The thioflavin T fluorescence assay for amyloid fibril detection can be biased by the presence of exogenous compounds. *FEBS Journal*, **2009**, 276, 5960-72	5.7	395

109	Model for amorphous aggregation processes. *Physical Review E*, **2009**, 80, 051907	2.4	25
108	Dephosphorylation of alpha(s)- and beta-caseins and its effect on chaperone activity: a structural and functional investigation. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 5956-64	5.7	36
107	(-)-epigallocatechin-3-gallate (EGCG) maintains kappa-casein in its pre-fibrillar state without redirecting its aggregation pathway. *Journal of Molecular Biology*, **2009**, 392, 689-700	6.5	117
106	Protein nanofibres of defined morphology prepared from mixtures of crude crystallins. *International Journal of Nanotechnology*, **2009**, 6, 258	1.5	21
105	Host-Defense Peptides from the Secretion of the Skin Glands of Frogs and Toads **2009**, 333-355		1
104	Amyloid fibril formation by bovine milk alpha s2-casein occurs under physiological conditions yet is prevented by its natural counterpart, alpha s1-casein. *Biochemistry*, **2008**, 47, 3926-36	3.2	88
103	Dissociation from the oligomeric state is the rate-limiting step in fibril formation by kappa-casein. *Journal of Biological Chemistry*, **2008**, 283, 9012-22	5.4	66
102	Unraveling the mysteries of protein folding and misfolding. *IUBMB Life*, **2008**, 60, 769-74	4.7	57
101	The effect of small molecules in modulating the chaperone activity of alphaB-crystallin against ordered and disordered protein aggregation. *FEBS Journal*, **2008**, 275, 935-47	5.7	52
100	Glutamic acid residues in the C-terminal extension of small heat shock protein 25 are critical for structural and functional integrity. *FEBS Journal*, **2008**, 275, 5885-98	5.7	24
99	The effect of dextran on subunit exchange of the molecular chaperone alphaA-crystallin. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2007**, 1774, 102-11	4	21
98	Monitoring the prevention of amyloid fibril formation by alpha-crystallin. Temperature dependence and the nature of the aggregating species. *FEBS Journal*, **2007**, 274, 6290-304	5.7	52
97	Characterisation of amyloid fibril formation by small heat-shock chaperone proteins human alphaA-, alphaB- and R120G alphaB-crystallins. *Journal of Molecular Biology*, **2007**, 372, 470-84	6.5	85
96	Mimicking phosphorylation of alphaB-crystallin affects its chaperone activity. *Biochemical Journal*, **2007**, 401, 129-41	3.8	147
95	Site-directed mutations in the C-terminal extension of human alphaB-crystallin affect chaperone function and block amyloid fibril formation. *PLoS ONE*, **2007**, 2, e1046	3.7	38
94	Casein proteins as molecular chaperones. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 2670-83	5.7	119
93	Amyloid fibril formation by bovine milk kappa-casein and its inhibition by the molecular chaperones alphaS- and beta-casein. *Biochemistry*, **2005**, 44, 17027-36	3.2	167
92	R120G alphaB-crystallin promotes the unfolding of reduced alpha-lactalbumin and is inherently unstable. *FEBS Journal*, **2005**, 272, 711-24	5.7	73

91	Amyloid fibril formation by lens crystallin proteins and its implications for cataract formation. *Journal of Biological Chemistry*, **2004**, 279, 3413-9	5.4	140
90	Investigating the importance of the flexible hinge in caerin 1.1: solution structures and activity of two synthetically modified caerin peptides. *Biochemistry*, **2004**, 43, 937-44	3.2	60
89	Host-defence peptides of Australian anurans: structure, mechanism of action and evolutionary significance. *Peptides*, **2004**, 25, 1035-54	3.8	190
88	Interaction of the molecular chaperone alphaB-crystallin with alpha-synuclein: effects on amyloid fibril formation and chaperone activity. *Journal of Molecular Biology*, **2004**, 340, 1167-83	6.5	179
87	The selective inhibition of serpin aggregation by the molecular chaperone, alpha-crystallin, indicates a nucleation-dependent specificity. *Journal of Biological Chemistry*, **2003**, 278, 48644-50	5.4	33
86	Small heat-shock proteins and clusterin: intra- and extracellular molecular chaperones with a common mechanism of action and function?. *IUBMB Life*, **2003**, 55, 661-8	4.7	147
85	The solution structures and activity of caerin 1.1 and caerin 1.4 in aqueous trifluoroethanol and dodecylphosphocholine micelles. *Biopolymers*, **2003**, 69, 42-59	2.2	14
84	The solution structure of frenatin 3, a neuronal nitric oxide synthase inhibitor from the giant tree frog, Litoria infrafrenata. *Biopolymers*, **2003**, 70, 424-34	2.2	11
83	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. *FEBS Journal*, **2003**, 270, 1141-53		60
82	Intracellular Protein Unfolding and Aggregation: The Role of Small Heat-Shock Chaperone Proteins. *Australian Journal of Chemistry*, **2003**, 56, 357	1.2	34
81	Mildly acidic pH activates the extracellular molecular chaperone clusterin. *Journal of Biological Chemistry*, **2002**, 277, 39532-40	5.4	73
80	NMR spectroscopy of large proteins. *Annual Reports on NMR Spectroscopy*, **2002**, 48, 31-69	1.7	3
79	Evidence that clusterin has discrete chaperone and ligand binding sites. *Biochemistry*, **2002**, 41, 282-91	3.2	61
78	The eye lens protein alphaA-crystallin of the blind mole rat Spalax ehrenbergi: effects of altered functional constraints. *Experimental Eye Research*, **2002**, 74, 285-91	3.7	7
77	Structural investigation of the hedamycin:d(ACCGGT)2 complex by NMR and restrained molecular dynamics. *Biochemical and Biophysical Research Communications*, **2002**, 290, 1602-8	3.4	16
76	Clusterin is an extracellular chaperone that specifically interacts with slowly aggregating proteins on their off-folding pathway. *FEBS Letters*, **2002**, 513, 259-66	3.8	99
75	The interaction of the molecular chaperone alpha-crystallin with unfolding alpha-lactalbumin: a structural and kinetic spectroscopic study. *Journal of Molecular Biology*, **2002**, 318, 815-27	6.5	99
74	Decreased heat stability and increased chaperone requirement of modified human betaB1-crystallins. *Molecular Vision*, **2002**, 8, 359-66	2.3	41

73	The molecular chaperone alpha-crystallin is in kinetic competition with aggregation to stabilize a monomeric molten-globule form of alpha-lactalbumin. *Biochemical Journal*, **2001**, 354, 79-87	3.8	52
72	The molecular chaperone □crystallin is in kinetic competition with aggregation to stabilize a monomeric molten-globule form of □actalbumin. *Biochemical Journal*, **2001**, 354, 79-87	3.8	75
71	The molecular chaperone, alpha-crystallin, inhibits amyloid formation by apolipoprotein C-II. *Journal of Biological Chemistry*, **2001**, 276, 33755-61	5.4	83
70	Threats without Enemies, Security without Borders: Environmental Security in East Asia. *Journal of East Asian Studies*, **2001**, 1, 161-189	0.2	3
69	Maculatin 1.1, an anti-microbial peptide from the Australian tree frog, Litoria genimaculata solution structure and biological activity. *FEBS Journal*, **2000**, 267, 1894-908		83
68	Mouse Hsp25, a small shock protein. The role of its C-terminal extension in oligomerization and chaperone action. *FEBS Journal*, **2000**, 267, 1923-32		95
67	The antibiotic and anticancer active aurein peptides from the Australian Bell Frogs Litoria aurea and Litoria raniformis the solution structure of aurein 1.2. *FEBS Journal*, **2000**, 267, 5330-41		197
66	The small heat-shock chaperone protein, alpha-crystallin, does not recognize stable molten globule states of cytosolic proteins. *BBA - Proteins and Proteomics*, **2000**, 1481, 175-88		29
65	Non-oxidative modification of lens crystallins by kynurenine: a novel post-translational protein modification with possible relevance to ageing and cataract. *BBA - Proteins and Proteomics*, **2000**, 1476, 265-78		59
64	Solution structure and backbone dynamics of long-[Arg(3)]insulin-like growth factor-I. *Journal of Biological Chemistry*, **2000**, 275, 10009-15	5.4	19
63	Polypeptide modification and cross-linking by oxidized 3-hydroxykynurenine. *Biochemistry*, **2000**, 39, 16176-84	3.2	34
62	Caerin 4.1, an Antibiotic Peptide from the Australian Tree Frog, Litoria caerulea. The N.M.R.-Derived Solution Structure.. *Australian Journal of Chemistry*, **2000**, 53, 257	1.2	7
61	Clusterin is an ATP-independent chaperone with very broad substrate specificity that stabilizes stressed proteins in a folding-competent state. *Biochemistry*, **2000**, 39, 15953-60	3.2	204
60	Identification of glutathionyl-3-hydroxykynurenine glucoside as a novel fluorophore associated with aging of the human lens. *Journal of Biological Chemistry*, **1999**, 274, 20847-54	5.4	58
59	Clusterin has chaperone-like activity similar to that of small heat shock proteins. *Journal of Biological Chemistry*, **1999**, 274, 6875-81	5.4	323
58	The solution structure of uperin 3.6, an antibiotic peptide from the granular dorsal glands of the Australian toadlet, Uperoleia mjobergii. *Chemical Biology and Drug Design*, **1999**, 54, 137-45		29
57	Host defence peptides from the skin glands of the Australian blue mountains tree-frog Litoria citropa. Solution structure of the antibacterial peptide citropin 1.1. *FEBS Journal*, **1999**, 265, 627-37		65
56	Formation of betaA3/betaB2-crystallin mixed complexes: involvement of N- and C-terminal extensions. *BBA - Proteins and Proteomics*, **1999**, 1432, 286-92		23

55	Probing the structure and interactions of crystallin proteins by NMR spectroscopy. *Progress in Retinal and Eye Research*, **1999**, 18, 431-62	20.5	56
54	Probing the disulfide folding pathway of insulin-like growth factor-I **1999**, 62, 693-703		26
53	Elucidation of a novel polypeptide cross-link involving 3-hydroxykynurenine. *Biochemistry*, **1999**, 38, 11455-64	3.2	44
52	Structural alterations of alpha-crystallin during its chaperone action. *FEBS Journal*, **1998**, 258, 170-83		81
51	The mammalian small heat-shock protein Hsp20 forms dimers and is a poor chaperone. *FEBS Journal*, **1998**, 258, 1014-21		77
50	Selective NMR Experiments on Macromolecules: Implementation and Analysis of QUIET-NOESY. *Journal of Magnetic Resonance*, **1998**, 132, 204-13	3	10
49	NMR spectroscopy of alpha-crystallin. Insights into the structure, interactions and chaperone action of small heat-shock proteins. *International Journal of Biological Macromolecules*, **1998**, 22, 197-209	7.9	84
48	The interaction of the molecular chaperone, alpha-crystallin, with molten globule states of bovine alpha-lactalbumin. *Journal of Biological Chemistry*, **1997**, 272, 27722-9	5.4	84
47	Oxidation products of 3-hydroxykynurenine bind to lens proteins: relevance for nuclear cataract. *Experimental Eye Research*, **1997**, 64, 727-35	3.7	64
46	Secondary structure determination of 15N-labelled human Long-[Arg-3]-insulin-like growth factor 1 by multidimensional NMR spectroscopy. *FEBS Letters*, **1997**, 420, 97-102	3.8	6
45	The solution structure and activity of caerin 1.1, an antimicrobial peptide from the Australian green tree frog, Litoria splendida. *FEBS Journal*, **1997**, 247, 545-57		112
44	A spectroscopic study of glycated bovine alpha-crystallin: investigation of flexibility of the C-terminal extension, chaperone activity and evidence for diglycation. *BBA - Proteins and Proteomics*, **1997**, 1343, 299-315		23
43	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. *Biopolymers*, **1997**, 41, 569-90	2.2	25
42	Solution conformation of bovine lens alpha- and betaB2-crystallin terminal extensions. *International Journal of Peptide and Protein Research*, **1996**, 47, 9-19		3
41	Immobilization of the C-terminal extension of bovine alphaA-crystallin reduces chaperone-like activity. *Journal of Biological Chemistry*, **1996**, 271, 29060-6	5.4	105
40	Age-related changes in bovine alpha-crystallin and high-molecular-weight protein. *Experimental Eye Research*, **1996**, 63, 639-47	3.7	67
39	Primary structure of trypsin inhibitors from Sicyos australis. *Phytochemistry*, **1996**, 41, 1265-74	4	8
38	The elusive role of the N-terminal extension of beta A3- and beta A1-crystallin. *Protein Engineering, Design and Selection*, **1996**, 9, 1021-8	1.9	31

37	On the interaction of alpha-crystallin with unfolded proteins. *BBA - Proteins and Proteomics*, **1995**, 1252, 251-60		87
36	FACILE DETECTION OF ORGANOMETALLIC DERIVATIVES OF PEPTIDES USING ELECTROSPRAY MASS SPECTROMETRY. *Journal of Coordination Chemistry*, **1995**, 34, 351-355	1.6	8
35	Glucoindole alkaloids from Ophiorrhiza acuminata. *Planta Medica*, **1995**, 61, 278-80	3.1	9
34	1H NMR spectroscopy reveals that mouse Hsp25 has a flexible C-terminal extension of 18 amino acids. *FEBS Letters*, **1995**, 369, 305-10	3.8	55
33	Loss of the C-terminal serine residue from bovine beta B2-crystallin. *Experimental Eye Research*, **1995**, 60, 465-9	3.7	12
32	Alpha-crystallin: molecular chaperone and protein surfactant. *BBA - Proteins and Proteomics*, **1994**, 1204, 195-206		68
31	A 1H NMR spectroscopic comparison of gamma S- and gamma B-crystallins. *Experimental Eye Research*, **1994**, 59, 211-20	3.7	22
30	A possible chaperone-like quaternary structure for alpha-crystallin. *Experimental Eye Research*, **1994** , 59, 231-4	3.7	96
29	Supramolecular order within the lens: 1H NMR spectroscopic evidence for specific crystallin-crystallin interactions. *Experimental Eye Research*, **1994**, 59, 607-16	3.7	28
28	A new UV-filter compound in human lenses. *FEBS Letters*, **1994**, 348, 173-6	3.8	51
27	Selective labelling of peptides using (dienyl) iron tricarbonyl cations. *Journal of the Chemical Society Chemical Communications*, **1993**, 928		18
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List of Publications

1 Accumulative deamidation of human lens protein βB2-crystallin leads to partially unfolded intermediates with enhanced aggregation propensity 2