

# Kandala V R Chary

## List of Publications by Year in descending order

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63  
papers

679  
citations

623734

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677142

22  
g-index

64  
all docs

64  
docs citations

64  
times ranked

567  
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR structure of a parallel-stranded DNA duplex at atomic resolution. <i>Nucleic Acids Research</i> , 2002, 30, 1500-1511.	14.5	68
2	Solution Structure and Calcium-Binding Properties of M-Crystallin, A Primordial $^{125}\text{I}$ -Crystallin from Archaea. <i>Journal of Molecular Biology</i> , 2009, 386, 675-689.	4.2	52
3	N-terminal Myristoylation Regulates Calcium-induced Conformational Changes in Neuronal Calcium Sensor-1. <i>Journal of Biological Chemistry</i> , 2004, 279, 27158-27167.	3.4	47
4	Rapid measurement of $^3\text{J}(\text{HN}^{\alpha}\text{H}^{\beta})$ and $^3\text{J}(\text{N}^{\alpha}\text{H}^{\beta})$ coupling constants in polypeptides. <i>Journal of Biomolecular NMR</i> , 2007, 39, 259-263.	2.8	29
5	NMR characterisation of a triple stranded complex formed by homo-purine and homo-pyrimidine DNA strands at 1:1 molar ratio and acidic pH. <i>Nucleic Acids Research</i> , 1995, 23, 4116-4121.	14.5	24
6	Identification of C-terminal neighbours of amino acid residues without an aliphatic $^{13}\text{C}$ as an aid to NMR assignments in proteins. <i>Journal of Biomolecular NMR</i> , 2008, 41, 191-197.	2.8	24
7	A Natively Unfolded $^{125}\text{I}$ -Crystallin Domain from <i>Hahella chejuensis</i> . <i>Biochemistry</i> , 2010, 49, 9746-9755.	2.5	21
8	A novel palindromic triple-stranded structure formed by homopyrimidine dodecamer d-CTTCTCCTCTTC and homopurine hexamer d-GAAGAG. <i>Nucleic Acids Research</i> , 1998, 26, 2981-2988.	14.5	20
9	Site-specific fluorescence dynamics in an RNA thermometer reveals the role of ribosome binding in its temperature-sensitive switch function. <i>Nucleic Acids Research</i> , 2015, 43, 493-503.	14.5	20
10	Energetics and Mechanism of $\text{Ca}^{2+}$ Displacement by Lanthanides in a Calcium Binding Protein. <i>Biochemistry</i> , 2004, 43, 9320-9331.	2.5	19
11	NMR Assignment of M-crystallin: A Novel $\text{Ca}^{2+}$ Binding Protein of the $^{125}\text{I}$ -crystallin Superfamily from <i>Methanosarcina acetivorans</i> . <i>Journal of Biomolecular NMR</i> , 2006, 36, 32-32.	2.8	19
12	Calmodulin-like Protein from <i>Entamoeba histolytica</i> : Solution Structure and Calcium-Binding Properties of a Partially Folded Protein. <i>Biochemistry</i> , 2011, 50, 181-193.	2.5	16
13	UVI31+ Is a DNA Endonuclease That Dynamically Localizes to Chloroplast Pyrenoids in <i>C. reinhardtii</i> . <i>PLoS ONE</i> , 2012, 7, e51913.	2.5	16
14	Structure of G57W mutant of human $^{125}\text{I}$ -crystallin and its involvement in cataract formation. <i>Journal of Structural Biology</i> , 2019, 205, 72-78.	2.8	16
15	Homopurine and homopyrimidine strands complementary in parallel orientation form an antiparallel duplex at neutral pH with A-C, G-T, and T-C mismatched base pairs. <i>Biopolymers</i> , 1997, 41, 773-784.	2.4	14
16	Chemical shift based editing of $\text{CH}_3$ groups in fractionally $^{13}\text{C}$ -labelled proteins using GFT (3, 2)D CT-HCCH-COSY: stereospecific assignments of $\text{CH}_3$ groups of Val and Leu residues. <i>Journal of Biomolecular NMR</i> , 2008, 42, 149-154.	2.8	14
17	Secondary structure of a calcium binding protein (CaBP) from <i>Entamoeba histolytica</i> . <i>FEBS Letters</i> , 1999, 459, 51-56.	2.8	13
18	Structural basis for sequential displacement of $\text{Ca}^{2+}$ by $\text{Yb}^{3+}$ in a protozoan EF-hand calcium binding protein. <i>Protein Science</i> , 2003, 12, 412-425.	7.6	13

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19	Conformational heterogeneity and dynamics in a $^2\text{H}^3$ -Crystallin from <i>Hahella chejuensis</i> . <i>Biophysical Chemistry</i> , 2011, 157, 7-15.	2.8	13
20	Rapid Measurement of Pseudocontact Shifts in Paramagnetic Proteins by GFT NMR Spectroscopy. <i>The Open Magnetic Resonance Journal</i> , 2008, 1, 16-28.	0.5	13
21	Sequence specific $^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ resonance assignments of a cataract-related variant G57W of human $^3\text{S}$ -crystallin. <i>Biomolecular NMR Assignments</i> , 2018, 12, 51-55.	0.8	12
22	Structural Characterization of the Apo Form of a Calcium Binding Protein from <i>Entamoeba histolytica</i> by Hydrogen Exchange and Its Folding to the Holo State. <i>Biochemistry</i> , 2005, 44, 11636-11645.	2.5	11
23	Differential native state ruggedness of the two $\text{Ca}^{2+}$ -binding domains in a $\text{Ca}^{2+}$ sensor protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1147-1153.	2.6	11
24	Overexpression, on-column refolding and isotopic labeling of Hahellin from <i>Hahella chejuensis</i> , a putative member of the $^2\text{H}^3$ -crystallin superfamily. <i>Protein Expression and Purification</i> , 2008, 58, 269-274.	1.3	10
25	Structure of $\text{Ca}^{2+}$ -binding protein-6 from <i>Entamoeba histolytica</i> and its involvement in trophozoite proliferation regulation. <i>PLoS Pathogens</i> , 2017, 13, e1006332.	4.7	10
26	Conformational dynamics study on human $^3\text{S}$ -crystallin as an efficient route to childhood blindness. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 679-684.	2.1	9
27	Sequence-specific $^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ assignments of a calcium binding protein from <i>Entamoeba histolytica</i> . <i>Journal of Biomolecular NMR</i> , 1999, 14, 93-94.	2.8	8
28	Conformational propensities and dynamics of a $^2\text{H}^3$ -crystallin, an intrinsically disordered protein. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12703.	2.8	8
29	Structural and functional characterization of a missense mutant of human $^3\text{S}$ -crystallin associated with dominant infantile cataracts. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 862-867.	2.1	8
30	A Molecular Dynamics Perspective To Identify Precursors to Aggregation in Human $^3\text{S}$ -Crystallin Unravels the Mechanism of Childhood Cataracts. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10384-10393.	2.6	8
31	Structural characterization of a novel $\text{Ca}^{2+}$ -binding protein from <i>Entamoeba histolytica</i> : structural basis for the observed functional differences with its isoform. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 471-483.	2.6	7
32	Temperature-dependent oligomerization in $\text{M}^3$ -crystallin: Lead or lag toward cataract, an NMR perspective. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 569-580.	2.6	7
33	Mechanistic Insights from Replica Exchange Molecular Dynamics Simulations into Mutation Induced Disordered-to-Ordered Transition in Hahellin, a $^2\text{H}^3$ -Crystallin. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5086-5098.	2.6	7
34	Structural basis for the observed differential magnetic anisotropic tensorial values in calcium binding proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 65, 656-669.	2.6	6
35	Functional Manipulation of a Calcium-binding Protein from <i>Entamoeba histolytica</i> Guided by Paramagnetic NMR. <i>Journal of Biological Chemistry</i> , 2013, 288, 23473-23487.	3.4	6
36	Liaison between Myristoylation and Cryptic EF-Hand Motif Confers $\text{Ca}^{2+}$ Sensitivity to Neuronal Calcium Sensor-1. <i>Biochemistry</i> , 2015, 54, 1111-1122.	2.5	6

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37	Enhanced H/D exchange unravels sequential structural excursions in G57W variant of human $\hat{1}^3$ S-crystallin with pro-cataractogenic conformations. <i>Biochemical and Biophysical Research Communications</i> , 2019, 514, 901-906.	2.1	6
38	Structural studies on the individual domains of human $\hat{1}^3$ S-crystallin and its G57W mutant unfolds mechanistic insights into childhood cataracts. <i>Biochemical and Biophysical Research Communications</i> , 2019, 517, 499-506.	2.1	6
39	On identifying low energy conformational excited states with differential ruggedness in human $\hat{1}^3$ S-crystallin promoting severe infantile cataracts. <i>Biochemical and Biophysical Research Communications</i> , 2019, 514, 946-952.	2.1	6
40	Sequence specific $^1$ H, $^{13}$ C and $^{15}$ N resonance assignments of the C-terminal domain of human $\hat{1}^3$ S-crystallin. <i>Biomolecular NMR Assignments</i> , 2019, 13, 43-47.	0.8	6
41	Complete backbone assignment of a $\text{Ca}^{2+}$ -binding protein of the $\hat{1}^2\hat{1}^3$ -crystallin superfamily from <i>Methanosarcina</i> $\hat{A}$ acetivorans, at two denaturant concentrations. <i>Biomolecular NMR Assignments</i> , 2009, 3, 107-110.	0.8	5
42	Flagella as a novel alignment medium for the measurement of residual dipolar couplings in proteins. <i>Chemical Communications</i> , 2013, 49, 11403.	4.1	5
43	Root-mean-square-deviation-based rapid backbone resonance assignments in proteins. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 793-797.	1.9	4
44	Guanidine-HCl Dependent Structural Unfolding of M-Crystallin: Fluctuating Native State Like Topologies and Intermolecular Association. <i>PLoS ONE</i> , 2012, 7, e42948.	2.5	4
45	Structural characterization of a novel KH-domain containing plant chloroplast endonuclease. <i>Scientific Reports</i> , 2018, 8, 13750.	3.3	4
46	$^1$ H, $^{13}$ C, and $^{15}$ N chemical shift assignments of neuronal calcium sensor-1, a multi-functional calcium-binding protein. <i>Journal of Biomolecular NMR</i> , 2006, 36, 48-48.	2.8	3
47	Sequence specific $^1$ H, $^{13}$ C and $^{15}$ N resonance assignments of a calmodulin-like calcium-binding protein from the protozoan parasite <i>Entamoeba histolytica</i> (EhCaM). <i>Biomolecular NMR Assignments</i> , 2008, 2, 77-79.	0.8	3
48	Backbone $^1$ H, $^{13}$ C and $^{15}$ N resonance assignments of an intrinsically unstructured $\hat{1}^2\hat{1}^3$ -crystallin from <i>Hahella chejuensis</i> . <i>Biomolecular NMR Assignments</i> , 2013, 7, 221-224.	0.8	3
49	$^1$ H, $^{13}$ C and $^{15}$ N NMR assignments of a calcium-binding protein from <i>Entamoeba histolytica</i> . <i>Biomolecular NMR Assignments</i> , 2016, 10, 67-70.	0.8	3
50	NMR structure and dynamics of inhibitory repeat domain variant 12, a plant protease inhibitor from <i>Capsicum annuum</i> , and its structural relationship to other plant protease inhibitors. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1388-1397.	3.5	3
51	$^1$ H, $^{13}$ C and $^{15}$ N NMR assignments of a mutant of UV inducible transcript (S55A-UVI31+) from <i>Chlamydomonas reinhardtii</i> . <i>Biomolecular NMR Assignments</i> , 2014, 8, 371-374.	0.8	2
52	$^1$ H, $^{13}$ C and $^{15}$ N NMR assignments of an unusual $\text{Ca}^{2+}$ -binding protein from <i>Entamoeba histolytica</i> in its apo form. <i>Biomolecular NMR Assignments</i> , 2017, 11, 63-67.	0.8	2
53	$^1$ H, $^{13}$ C and $^{15}$ N NMR assignments of two plant protease inhibitors (IRD7 and IRD12) from the plant <i>Capsicum annuum</i> . <i>Biomolecular NMR Assignments</i> , 2019, 13, 31-35.	0.8	2
54	Identification of C-Terminal Neighbours of Residues that have only one $^1$ H Attached to $^{13}$ C: (Ile, Thr and) <i>Tj ETQqQ Q 0 rgBT 2</i> <i>Overlock</i> 2014, 80, 1085.		

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55	Iterative cloning, overexpression, purification and isotopic labeling of an engineered dimer of a Ca <sup>2+</sup> -binding protein of the <sup>1213</sup> -crystallin superfamily from <i>Methanosarcina acetivorans</i> . <i>Protein Expression and Purification</i> , 2012, 84, 116-122.	1.3	1
56	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N resonance assignments of S114A mutant of UVI31+ from <i>Chlamydomonas reinhardtii</i> . <i>Biomolecular NMR Assignments</i> , 2014, 8, 71-74.	0.8	1
57	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N NMR assignments of Mg <sup>2+</sup> bound form of UV inducible transcript protein (UVI31+) from <i>Chlamydomonas reinhardtii</i> . <i>Biomolecular NMR Assignments</i> , 2015, 9, 93-97.	0.8	1
58	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N NMR assignments of a bacterial immunoglobulin-like domain (group 2) of a protein of a bacterium <i>Paenarthrobacter aurescens</i> TC1. <i>Biomolecular NMR Assignments</i> , 2017, 11, 203-206.	0.8	1
59	Biophysical Reviews™ – Meet the Councilor Series – a profile of Kandala V. R. Chary. <i>Biophysical Reviews</i> , 2021, 13, 821-824.	3.2	1
60	Klenow exo <sup>-</sup> , as opposed to exo <sup>+</sup> , traverses through G <sup>+</sup> C:C triplex by melting G <sup>+</sup> C base pairs. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 730-736.	2.1	0
61	Letter to the Editor: Sequence specific <sup>1</sup> HN, <sup>13</sup> C and <sup>15</sup> N resonance assignments of a novel calcium-binding protein from <i>Entamoeba histolytica</i> . <i>Journal of Biomolecular NMR</i> , 2005, 31, 379-380.	2.8	0
62	Site-Specific Free Energy Changes in Proteins upon Ligand Binding by Nuclear Magnetic Resonance: Ca <sup>2+</sup> -Displacement by Ln <sup>3+</sup> in a Ca <sup>2+</sup> -Binding Protein from <i>Entamoeba histolytica</i> . <i>Chemical Biology and Drug Design</i> , 2011, 77, 272-280.	3.2	0
63	Statistical analysis of intermolecular interactions in trypsin-inhibitor complexes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 5287-5292.	3.5	0