

John Christodoulou

List of Publications by Year in descending order

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48
papers

1,794
citations

279798

23
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional NMR Lineshape Analysis. <i>Scientific Reports</i> , 2016, 6, 24826.	3.3	161
2	A structural ensemble of a ribosomeâ€“nascent chain complex during cotranslational protein folding. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 278-285.	8.2	135
3	Targeting the Intrinsically Disordered Structural Ensemble of Î±-Synuclein by Small Molecules as a Potential Therapeutic Strategy for Parkinsonâ€™s Disease. <i>PLoS ONE</i> , 2014, 9, e87133.	2.5	126
4	Structure and dynamics of a ribosome-bound nascent chain by NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16516-16521.	7.1	116
5	Nature and Regulation of Protein Folding on the Ribosome. <i>Trends in Biochemical Sciences</i> , 2019, 44, 914-926.	7.5	97
6	Heteronuclear NMR investigations of dynamic regions of intact <i>Escherichia coli</i> ribosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10949-10954.	7.1	87
7	New Scenarios of Protein Folding Can Occur on the Ribosome. <i>Journal of the American Chemical Society</i> , 2011, 133, 513-526.	13.7	87
8	Probing ribosome-nascent chain complexes produced in vivo by NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22239-22244.	7.1	81
9	The H50Q Mutation Induces a 10-fold Decrease in the Solubility of Î±-Synuclein. <i>Journal of Biological Chemistry</i> , 2015, 290, 2395-2404.	3.4	65
10	Structural characterization of the interaction of Î±-synuclein nascent chains with the ribosomal surface and trigger factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5012-5017.	7.1	54
11	D25V apolipoprotein C-III variant causes dominant hereditary systemic amyloidosis and confers cardiovascular protective lipoprotein profile. <i>Nature Communications</i> , 2016, 7, 10353.	12.8	50
12	How Does the Ribosome Fold the Proteome?. <i>Annual Review of Biochemistry</i> , 2020, 89, 389-415.	11.1	50
13	A Nanobody Binding to Non-Amyloidogenic Regions of the Protein Human Lysozyme Enhances Partial Unfolding but Inhibits Amyloid Fibril Formation. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13245-13258.	2.6	42
14	A strategy for co-translational folding studies of ribosome-bound nascent chain complexes using NMR spectroscopy. <i>Nature Protocols</i> , 2016, 11, 1492-1507.	12.0	39
15	Systematic mapping of free energy landscapes of a growing filamin domain during biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9744-9749.	7.1	39
16	Probing Side-Chain Dynamics of a Ribosome-Bound Nascent Chain Using Methyl NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 8366-8367.	13.7	37
17	An integrative approach combining ion mobility mass spectrometry, X-ray crystallography, and nuclear magnetic resonance spectroscopy to study the conformational dynamics of Î± ₁ -antitrypsin upon ligand binding. <i>Protein Science</i> , 2015, 24, 1301-1312.	7.6	37
18	Protein folding on the ribosome studied using NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 74, 57-75.	7.5	35

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19	Structural Dynamics Associated with Intermediate Formation in an Archetypal Conformational Disease. <i>Structure</i> , 2012, 20, 504-512.	3.3	33
20	Structure, Dynamics and Folding of an Immunoglobulin Domain of the Gelation Factor (ABP-120) from <i>Dictyostelium discoideum</i> . <i>Journal of Molecular Biology</i> , 2009, 388, 865-879.	4.2	32
21	The ribosome and its role in protein folding: looking through a magnifying glass. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 509-521.	2.3	32
22	Spontaneous assembly of redox-active iron-sulfur clusters at low concentrations of cysteine. <i>Nature Communications</i> , 2021, 12, 5925.	12.8	28
23	Interactions between nascent proteins and the ribosome surface inhibit co-translational folding. <i>Nature Chemistry</i> , 2021, 13, 1214-1220.	13.6	27
24	Binding of Monovalent and Bivalent Ligands by Transthyretin Causes Different Short- and Long-Distance Conformational Changes. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 8274-8283.	6.4	25
25	Novel Small Molecules Targeting the Intrinsically Disordered Structural Ensemble of α -Synuclein Protect Against Diverse α -Synuclein Mediated Dysfunctions. <i>Scientific Reports</i> , 2019, 9, 16947.	3.3	25
26	Nascent chains can form co-translational folding intermediates that promote post-translational folding outcomes in a disease-causing protein. <i>Nature Communications</i> , 2021, 12, 6447.	12.8	22
27	An analysis of NMR sensitivity enhancements obtained using non-uniform weighted sampling, and the application to protein NMR. <i>Journal of Magnetic Resonance</i> , 2012, 219, 46-52.	2.1	21
28	The Significance of the Location of Mutations for the Native-State Dynamics of Human Lysozyme. <i>Biophysical Journal</i> , 2016, 111, 2358-2367.	0.5	20
29	^1H , ^{15}N and ^{13}C assignments of domain 5 of <i>Dictyostelium discoideum</i> gelation factor (ABP-120) in its native and 8M urea-denatured states. <i>Biomolecular NMR Assignments</i> , 2009, 3, 29-31.	0.8	18
30	Archaeal MBF1 binds to 30S and 70S ribosomes via its helix-“turn”-helix domain. <i>Biochemical Journal</i> , 2014, 462, 373-384.	3.7	16
31	Two-dimensional NMR lineshape analysis of single, multiple, zero and double quantum correlation experiments. <i>Journal of Biomolecular NMR</i> , 2020, 74, 95-109.	2.8	15
32	High-resolution ex vivo NMR spectroscopy of human Z α 1-antitrypsin. <i>Nature Communications</i> , 2020, 11, 6371.	12.8	15
33	Common sequence motifs of nascent chains engage the ribosome surface and trigger factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
34	Optimal design of adaptively sampled NMR experiments for measurement of methyl group dynamics with application to a ribosome-nascent chain complex. <i>Journal of Magnetic Resonance</i> , 2021, 326, 106937.	2.1	12
35	Increasing the sensitivity of NMR diffusion measurements by paramagnetic longitudinal relaxation enhancement, with application to ribosome-“nascent chain complexes. <i>Journal of Biomolecular NMR</i> , 2015, 63, 151-163.	2.8	10
36	Probing the dynamic stalk region of the ribosome using solution NMR. <i>Scientific Reports</i> , 2019, 9, 13528.	3.3	10

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37	Cross-peaks in Simple Two-Dimensional NMR Experiments from Chemical Exchange of Transverse Magnetisation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8784-8788.	13.8	10
38	Thermodynamics of co-translational folding and ribosome-nascent chain interactions. <i>Current Opinion in Structural Biology</i> , 2022, 74, 102357.	5.7	9
39	Nascent chain dynamics and ribosome interactions within folded ribosome-nascent chain complexes observed by NMR spectroscopy. <i>Chemical Science</i> , 2021, 12, 13120-13126.	7.4	8
40	NMR Lineshape Analysis of Intrinsically Disordered Protein Interactions. <i>Methods in Molecular Biology</i> , 2020, 2141, 477-504.	0.9	8
41	¹ H, ¹⁵ N and ¹³ C backbone resonance assignments of the archetypal serpin Î±1-antitrypsin. <i>Biomolecular NMR Assignments</i> , 2012, 6, 153-156.	0.8	6
42	Application of Lysine-specific Labeling to Detect Transient Interactions Present During Human Lysozyme Amyloid Fibril Formation. <i>Scientific Reports</i> , 2017, 7, 15018.	3.3	6
43	Full-length TDP-43 and its C-terminal domain form filaments <i>in vitro</i> having non-amyloid properties. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2021, 28, 56-65.	3.0	6
44	Early Nascent Chain Folding Events on the Ribosome. <i>Israel Journal of Chemistry</i> , 2010, 50, 99-108.	2.3	2
45	Cross-peaks in Simple Two-Dimensional NMR Experiments from Chemical Exchange of Transverse Magnetisation. <i>Angewandte Chemie</i> , 2019, 131, 8876-8880.	2.0	2
46	Analysis of conformational exchange processes using methyl-TROSY-based Hahn echo measurements of quadruple-quantum relaxation. <i>Magnetic Resonance</i> , 2021, 2, 777-793.	1.9	1
47	Any symptom, in any organ, at any age: A case report of multiple genetic diagnoses mimicking mitochondrial disease in an adult with kidney disease. <i>Nephrology</i> , 2022, , .	1.6	1
48	Structural investigation of the folding of an immunoglobulin domain on the ribosome using NMR Spectroscopy (LB197). <i>FASEB Journal</i> , 2014, 28, LB197.	0.5	0