

Shenggen Yao

List of Publications by Year in descending order

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68
papers

3,615
citations

172386

29
h-index

133188

59
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68
all docs

68
docs citations

68
times ranked

4862
citing authors

#	ARTICLE	IF	CITATIONS
1	Aromatase-deficient (ArKO) mice have a phenotype of increased adiposity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 12735-12740.	3.3	650
2	Bax Crystal Structures Reveal How BH3 Domains Activate Bax and Nucleate Its Oligomerization to Induce Apoptosis. <i>Cell</i> , 2013, 152, 519-531.	13.5	491
3	The molecular basis of JAK/STAT inhibition by SOCS1. <i>Nature Communications</i> , 2018, 9, 1558.	5.8	298
4	The Structure of SOCS3 Reveals the Basis of the Extended SH2 Domain Function and Identifies an Unstructured Insertion That Regulates Stability. <i>Molecular Cell</i> , 2006, 22, 205-216.	4.5	140
5	Quantitative NMR imaging of flow. <i>Concepts in Magnetic Resonance</i> , 1993, 5, 281-302.	1.3	120
6	Aromatase-deficient (ArKO) mice accumulate excess adipose tissue. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2001, 79, 3-9.	1.2	117
7	Peptide self-association in aqueous trifluoroethanol monitored by pulsed field gradient NMR diffusion measurements. <i>Journal of Biomolecular NMR</i> , 2000, 16, 109-119.	1.6	99
8	The SOCS Box Domain of SOCS3: Structure and Interaction with the ElonginBC-Cullin5 Ubiquitin Ligase. <i>Journal of Molecular Biology</i> , 2008, 381, 928-940.	2.0	91
9	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Cell Biology</i> , 2010, 190, 129-141.	2.3	88
10	Non-invasive observation of flow profiles and polarisation layers in hollow fibre membrane filtration modules using NMR micro-imaging. <i>Journal of Membrane Science</i> , 1995, 99, 207-216.	4.1	75
11	The SPRY domain of SSB-2 adopts a novel fold that presents conserved Par-4-binding residues. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 77-84.	3.6	72
12	Antibodies specifically targeting a locally misfolded region of tumor associated EGFR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5082-5087.	3.3	69
13	Structure, Dynamics, and Selectivity of the Sodium Channel Blocker $\frac{1}{4}$ -Conotoxin SIIIa. <i>Biochemistry</i> , 2008, 47, 10940-10949.	1.2	65
14	Structural Basis for Par-4 Recognition by the SPRY Domain- and SOCS Box-Containing Proteins SPSB1, SPSB2, and SPSB4. <i>Journal of Molecular Biology</i> , 2010, 401, 389-402.	2.0	63
15	An investigation of concentration polarization phenomena in membrane filtration of colloidal silica suspensions by NMR micro-imaging. <i>Journal of Membrane Science</i> , 1998, 145, 145-158.	4.1	59
16	Solution Conformation, Backbone Dynamics and Lipid Interactions of the Intrinsically Unstructured Malaria Surface Protein MSP2. <i>Journal of Molecular Biology</i> , 2008, 379, 105-121.	2.0	59
17	Quantitative measurements of the concentration polarisation layer thickness in membrane filtration of oil-water emulsions using NMR micro-imaging. <i>Journal of Membrane Science</i> , 1996, 118, 247-257.	4.1	50
18	Structure, Dynamics and Heparin Binding of the C-terminal Domain of Insulin-like Growth Factor-binding Protein-2 (IGFBP-2). <i>Journal of Molecular Biology</i> , 2006, 364, 690-704.	2.0	50

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19	Secondary structure assignment of mouse SOCS3 by NMR defines the domain boundaries and identifies an unstructured insertion in the SH2 domain. <i>FEBS Journal</i> , 2005, 272, 6120-6130.	2.2	45
20	C-Terminal Domain of Insulin-Like Growth Factor (IGF) Binding Protein-6: Structure and Interaction with IGF-II. <i>Molecular Endocrinology</i> , 2004, 18, 2740-2750.	3.7	44
21	Gradient refractive index of the crystalline lens of the Black Oreo Dory (<i>Alloctytus Niger</i>): comparison of magnetic resonance imaging (MRI) and laser ray-trace methods. <i>Vision Research</i> , 2001, 41, 973-979.	0.7	43
22	Merozoite surface protein 2 of <i>Plasmodium falciparum</i> : Expression, structure, dynamics, and fibril formation of the conserved N-terminal domain. <i>Biopolymers</i> , 2007, 87, 12-22.	1.2	43
23	Characterization of the Lipid-Binding Site of Equinatoxin II by NMR and Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2015, 108, 1987-1996.	0.2	42
24	SPRY Domain-Containing SOCS Box Protein 2: Crystal Structure and Residues Critical for Protein Binding. <i>Journal of Molecular Biology</i> , 2009, 386, 662-674.	2.0	40
25	Predicting the release profile of small molecules from within the ordered nanostructured lipidic bicontinuous cubic phase using translational diffusion coefficients determined by PFG-NMR. <i>Nanoscale</i> , 2017, 9, 2471-2478.	2.8	38
26	Structural insights into BCL2 pro-survival protein interactions with the key autophagy regulator BECN1 following phosphorylation by STK4/MST1. <i>Autophagy</i> , 2019, 15, 785-795.	4.3	38
27	Protein effective rotational correlation times from translational self-diffusion coefficients measured by PFG-NMR. <i>Biophysical Chemistry</i> , 2008, 136, 145-151.	1.5	36
28	Copper and Zinc Mediated Oligomerisation of A β 2 Peptides. <i>International Journal of Peptide Research and Therapeutics</i> , 2006, 12, 153-164.	0.9	35
29	Affinity Maturation of Leukemia Inhibitory Factor and Conversion to Potent Antagonists of Signaling. <i>Journal of Biological Chemistry</i> , 2004, 279, 2125-2134.	1.6	30
30	Structure and Inter-domain Interactions of Domain II from the Blood-stage Malarial Protein, Apical Membrane Antigen 1. <i>Journal of Molecular Biology</i> , 2005, 350, 641-656.	2.0	30
31	Measuring translational diffusion coefficients of peptides and proteins by PFG-NMR using band-selective RF pulses. <i>European Biophysics Journal</i> , 2014, 43, 331-339.	1.2	30
32	C-terminal Modification and Multimerization Increase the Efficacy of a Proline-Rich Antimicrobial Peptide. <i>Chemistry - A European Journal</i> , 2017, 23, 390-396.	1.7	28
33	Cooperativity of the N- and C-Terminal Domains of Insulin-like Growth Factor (IGF) Binding Protein 2 in IGF Binding. <i>Biochemistry</i> , 2007, 46, 13720-13732.	1.2	26
34	Characterizing bathocuproine self-association and subsequent binding to Alzheimer's disease amyloid β -peptide by NMR. <i>Journal of Peptide Science</i> , 2004, 10, 210-217.	0.8	24
35	Quantitative magnetic resonance flow and diffusion imaging in porous media. <i>Magnetic Resonance Imaging</i> , 1995, 13, 729-738.	1.0	21
36	An investigation of the fluidity of concentration polarisation layers in crossflow membrane filtration of an oil-water emulsion using chemical shift selective flow imaging. <i>Magnetic Resonance Imaging</i> , 1997, 15, 235-242.	1.0	21

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37	Binding site for the C-domain of insulin-like growth factor (IGF) binding protein-6 on IGF-II; implications for inhibition of IGF actions. <i>FEBS Letters</i> , 2004, 568, 19-22.	1.3	21
38	The BECN1 N-terminal domain is intrinsically disordered. <i>Autophagy</i> , 2016, 12, 460-471.	4.3	21
39	The N-Terminal Subdomain of Insulin-like Growth Factor (IGF) Binding Protein 6. Structure and Interaction with IGFs. <i>Biochemistry</i> , 2007, 46, 3065-3074.	1.2	20
40	Flow-selective pulse sequences. <i>Magnetic Resonance Imaging</i> , 1993, 11, 585-591.	1.0	18
41	Murine Interleukin-3: Structure, Dynamics, and Conformational Heterogeneity in Solution. <i>Biochemistry</i> , 2011, 50, 2464-2477.	1.2	18
42	Discovery and characterization of a sulfoquinovose mutarotase using kinetic analysis at equilibrium by exchange spectroscopy. <i>Biochemical Journal</i> , 2018, 475, 1371-1383.	1.7	18
43	Stabilization of the Helical Structure of Y2-Selective Analogues of Neuropeptide Y by Lactam Bridges. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 2310-2318.	2.9	16
44	C-Terminal Domain of Insulin-like Growth Factor (IGF) Binding Protein 6: Conformational Exchange and Its Correlation with IGF-II Binding. <i>Biochemistry</i> , 2004, 43, 11187-11195.	1.2	16
45	Lipidic Cubic Phase-Induced Membrane Protein Crystallization: Interplay Between Lipid Molecular Structure, Mesophase Structure and Properties, and Crystallography. <i>Crystal Growth and Design</i> , 2017, 17, 5667-5674.	1.4	16
46	Letter to the Editor: Backbone ¹ H, ¹³ C and ¹⁵ N assignments of the 25 kDa SPRY domain-containing SOCS box protein 2 (SSB-2). <i>Journal of Biomolecular NMR</i> , 2005, 31, 69-70.	1.6	14
47	Dynamics of the SPRY domain-containing SOCS box protein 2: Flexibility of key functional loops. <i>Protein Science</i> , 2006, 15, 2761-2772.	3.1	14
48	Backbone dynamics measurements on leukemia inhibitory factor, a rigid four-helical bundle cytokine. <i>Protein Science</i> , 2000, 9, 671-682.	3.1	13
49	Exchange enhanced sensitivity gain for solvent-exchangeable protons in 2D ¹ H- ¹⁵ N heteronuclear correlation spectra acquired with band-selective pulses. <i>Journal of Magnetic Resonance</i> , 2011, 211, 243-247.	1.2	13
50	Improved Estimation of Protein Rotational Correlation Times from ¹⁵ N Relaxation Measurements. <i>Journal of Magnetic Resonance</i> , 1998, 131, 347-350.	1.2	12
51	Peptide inhibitors of the malaria surface protein, apical membrane antigen 1: Identification of key binding residues. <i>Biopolymers</i> , 2011, 95, 354-364.	1.2	12
52	Coarse-grained dynamics of the receiver domain of NtrC: Fluctuations, correlations and implications for allosteric cooperativity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 73, 218-227.	1.5	11
53	NMR studies of interactions between Bax and BH3 domain-containing peptides in the absence and presence of CHAPS. <i>Archives of Biochemistry and Biophysics</i> , 2014, 545, 33-43.	1.4	11
54	Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. <i>Journal of Magnetic Resonance</i> , 2019, 305, 146-151.	1.2	11

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55	Solution structure of peptides from HIV-1 Vpr protein that cause membrane permeabilization and growth arrest. <i>Journal of Peptide Science</i> , 1998, 4, 426-435.	0.8	9
56	Measuring translational diffusion of ¹⁵ N-enriched biomolecules in complex solutions with a simplified ¹ H- ¹⁵ N HMQC-filtered BEST sequence. <i>European Biophysics Journal</i> , 2018, 47, 891-902.	1.2	9
57	Physicochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. <i>Langmuir</i> , 2020, 36, 6254-6260.	1.6	8
58	NMR spectroscopy of lipidic cubic phases. <i>Biophysical Reviews</i> , 2022, 14, 67-74.	1.5	8
59	¹ H, ¹³ C and ¹⁵ N resonance assignments of a highly-soluble murine interleukin-3 analogue with wild-type bioactivity. <i>Biomolecular NMR Assignments</i> , 2010, 4, 73-77.	0.4	6
60	¹ H, ¹³ C and ¹⁵ N resonance assignments of the C-terminal domain of insulin-like growth factor binding protein-6 (IGFBP-6). <i>Journal of Biomolecular NMR</i> , 2003, 25, 251-252.	1.6	5
61	Hydrodynamic radii of solubilized high amylose native and modified starches by pulsed field gradient NMR diffusion measurements. <i>Food Hydrocolloids</i> , 2014, 40, 16-21.	5.6	5
62	Characterisation of the conformational preference and dynamics of the intrinsically disordered N-terminal region of Beclin 1 by NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1128-1137.	1.1	5
63	Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. <i>Journal of Physical Chemistry B</i> , 2021, 125, 571-580.	1.2	5
64	Insulin-like growth factor-I (IGF-I): Solution properties and NMR chemical shift assignments near physiological pH. <i>Growth Hormone and IGF Research</i> , 2009, 19, 226-231.	0.5	3
65	NMR measurement of biomolecular translational and rotational motion for evaluating changes of protein oligomeric state in solution. <i>European Biophysics Journal</i> , 2022, 51, 193-204.	1.2	3
66	Nutation frequency modulation on NMR signal of nuclear spins in chemical exchange with solvent water under the BEST conditions. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 190-194.	1.1	2
67	Water diffusion in complex systems measured by PGSE-NMR using chemical shift selective stimulated echo: Elimination of magnetization exchange effects. <i>Journal of Chemical Physics</i> , 2021, 155, 224203.	1.2	2
68	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Experimental Medicine</i> , 2010, 207, i22-i22.	4.2	0