Shenggen Yao

List of Publications by Year
in descending order

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68 papers	3,615 citations	172457 29 h-index	133252 59 g-index
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. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 12735-12740.	7.1	650
2	Bax Crystal Structures Reveal How BH3 Domains Activate Bax and Nucleate Its Oligomerization to Induce Apoptosis. Cell, 2013, 152, 519-531.	28.9	491
3	The molecular basis of JAK/STAT inhibition by SOCS1. Nature Communications, 2018, 9, 1558.	12.8	298
4	The Structure of SOCS3 Reveals the Basis of the Extended SH2 Domain Function and Identifies an Unstructured Insertion That Regulates Stability. Molecular Cell, 2006, 22, 205-216.	9.7	140
5	Quantitative NMR imaging of flow. Concepts in Magnetic Resonance, 1993, 5, 281-302.	1.3	120
6	Aromatase-deficient (ArKO) mice accumulate excess adipose tissue. Journal of Steroid Biochemistry and Molecular Biology, 2001, 79, 3-9.	2.5	117
7	Peptide self-association in aqueous trifluoroethanol monitored by pulsed field gradient NMR diffusion measurements. Journal of Biomolecular NMR, 2000, 16, 109-119.	2.8	99
8	The SOCS Box Domain of SOCS3: Structure and Interaction with the ElonginBC-Cullin5 Ubiquitin Ligase. Journal of Molecular Biology, 2008, 381, 928-940.	4.2	91
9	The SPRY domainâ€“containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. Journal of Cell Biology, 2010, 190, 129-141.	5.2	88
10	Non-invasive observation of flow profiles and polarisation layers in hollow fibre membrane filtration modules using NMR micro-imaging. Journal of Membrane Science, 1995, 99, 207-216.	8.2	75
11	The SPRY domain of SSB-2 adopts a novel fold that presents conserved Par-4â€“binding residues. Nature Structural and Molecular Biology, 2006, 13, 77-84.	8.2	72
12	Antibodies specifically targeting a locally misfolded region of tumor associated EGFR. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5082-5087.	7.1	69
13	Structure, Dynamics, and Selectivity of the Sodium Channel Blocker Î¼-Conotoxin SIIIA. Biochemistry, 2008, 47, 10940-10949.	2.5	65
14	Structural Basis for Par-4 Recognition by the SPRY Domain- and SOCS Box-Containing Proteins SPSB1, SPSB2, and SPSB4. Journal of Molecular Biology, 2010, 401, 389-402.	4.2	63
15	An investigation of concentration polarization phenomena in membrane filtration of colloidal silica suspensions by NMR micro-imaging. Journal of Membrane Science, 1998, 145, 145-158.	8.2	59
16	Solution Conformation, Backbone Dynamics and Lipid Interactions of the Intrinsically Unstructured Malaria Surface Protein MSP2. Journal of Molecular Biology, 2008, 379, 105-121.	4.2	59
17	Quantitative measurements of the concentration polarisation layer thickness in membrane filtration of oil-water emulsions using NMR micro-imaging. Journal of Membrane Science, 1996, 118, 247-257.	8.2	50
18	Structure, Dynamics and Heparin Binding of the C-terminal Domain of Insulin-like Growth Factor-binding Protein-2 (IGFBP-2). Journal of Molecular Biology, 2006, 364, 690-704.	4.2	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. FEBS Journal, 2005, 272, 6120-6130.	4.7	45
20	C-Terminal Domain of Insulin-Like Growth Factor (IGF) Binding Protein-6: Structure and Interaction with IGF-II. Molecular Endocrinology, 2004, 18, 2740-2750.	3.7	44
21	Gradient refractive index of the crystalline lens of the Black Oreo Dory (Allocyttus Niger): comparison of magnetic resonance imaging (MRI) and laser ray-trace methods. Vision Research, 2001, 41, 973-979.	1.4	43
22	Merozoite surface protein 2 ofPlasmodium falciparum: Expression, structure, dynamics, and fibril formation of the conserved N-terminal domain. Biopolymers, 2007, 87, 12-22.	2.4	43
23	Characterization of the Lipid-Binding Site of Equinatoxin II by NMR and Molecular Dynamics Simulation. Biophysical Journal, 2015, 108, 1987-1996.	0.5	42
24	SPRY Domain-Containing SOCS Box Protein 2: Crystal Structure and Residues Critical for Protein Binding. Journal of Molecular Biology, 2009, 386, 662-674.	4.2	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. Nanoscale, 2017, 9, 2471-2478.	5.6	38
26	Structural insights into BCL2 pro-survival protein interactions with the key autophagy regulator BECN1 following phosphorylation by STK4/MST1. Autophagy, 2019, 15, 785-795.	9.1	38
27	Protein effective rotational correlation times from translational self-diffusion coefficients measured by PFG-NMR. Biophysical Chemistry, 2008, 136, 145-151.	2.8	36
28	Copper and Zinc Mediated Oligomerisation of AÎ² Peptides. International Journal of Peptide Research and Therapeutics, 2006, 12, 153-164.	1.9	35
29	Affinity Maturation of Leukemia Inhibitory Factor and Conversion to Potent Antagonists of Signaling. Journal of Biological Chemistry, 2004, 279, 2125-2134.	3.4	30
30	Structure and Inter-domain Interactions of Domain II from the Blood-stage Malarial Protein, Apical Membrane Antigen 1. Journal of Molecular Biology, 2005, 350, 641-656.	4.2	30
31	Measuring translational diffusion coefficients of peptides and proteins by PFG-NMR using band-selective RF pulses. European Biophysics Journal, 2014, 43, 331-339.	2.2	30
32	Câ€Terminal Modification and Multimerization Increase the Efficacy of a Prolineâ€Rich Antimicrobial Peptide. Chemistry - A European Journal, 2017, 23, 390-396.	3.3	28
33	Cooperativity of the N- and C-Terminal Domains of Insulin-like Growth Factor (IGF) Binding Protein 2 in IGF Binding. Biochemistry, 2007, 46, 13720-13732.	2.5	26
34	Characterizing bathocuproine self-association and subsequent binding to Alzheimer's disease amyloidÎ²-peptide by NMR. Journal of Peptide Science, 2004, 10, 210-217.	1.4	24
35	Quantitative magnetic resonance flow and diffusion imaging in porous media. Magnetic Resonance Imaging, 1995, 13, 729-738.	1.8	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. Magnetic Resonance Imaging, 1997, 15, 235-242.	1.8	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. FEBS Letters, 2004, 568, 19-22.	2.8	21
38	The BECN1ÂN-terminal domain is intrinsically disordered. Autophagy, 2016, 12, 460-471.	9.1	21
39	The N-Terminal Subdomain of Insulin-like Growth Factor (IGF) Binding Protein 6. Structure and Interaction with IGFsâ€. Biochemistry, 2007, 46, 3065-3074.	2.5	20
40	Flow-selective pulse sequences. Magnetic Resonance Imaging, 1993, 11, 585-591.	1.8	18
41	Murine Interleukin-3: Structure, Dynamics, and Conformational Heterogeneity in Solution. Biochemistry, 2011, 50, 2464-2477.	2.5	18
42	Discovery and characterization of a sulfoquinovose mutarotase using kinetic analysis at equilibrium by exchange spectroscopy. Biochemical Journal, 2018, 475, 1371-1383.	3.7	18
43	Stabilization of the Helical Structure of Y2-Selective Analogues of Neuropeptide Y by Lactam Bridges. Journal of Medicinal Chemistry, 2002, 45, 2310-2318.	6.4	16
44	C-Terminal Domain of Insulin-like Growth Factor (IGF) Binding Protein 6:Â Conformational Exchange and Its Correlation with IGF-II Bindingâ€. Biochemistry, 2004, 43, 11187-11195.	2.5	16
45	Lipidic Cubic Phase-Induced Membrane Protein Crystallization: Interplay Between Lipid Molecular Structure, Mesophase Structure and Properties, and Crystallogenesis. Crystal Growth and Design, 2017, 17, 5667-5674.	3.0	16
46	Letter to the Editor: Backbone 1H, 13C and 15N assignments of the 25 kDa SPRY domain-containing SOCS box protein 2 (SSB-2). Journal of Biomolecular NMR, 2005, 31, 69-70.	2.8	14
47	Dynamics of the SPRY domain-containing SOCS box protein 2: Flexibility of key functional loops. Protein Science, 2006, 15, 2761-2772.	7.6	14
48	Backbone dynamics measurements on leukemia inhibitory factor, a rigid fourâ€helical bundle cytokine. Protein Science, 2000, 9, 671-682.	7.6	13
49	Exchange enhanced sensitivity gain for solvent-exchangeable protons in 2D 1Hâ€“15N heteronuclear correlation spectra acquired with band-selective pulses. Journal of Magnetic Resonance, 2011, 211, 243-247.	2.1	13
50	Improved Estimation of Protein Rotational Correlation Times from15N Relaxation Measurements. Journal of Magnetic Resonance, 1998, 131, 347-350.	2.1	12
51	Peptide inhibitors of the malaria surface protein, apical membrane antigen 1: Identification of key binding residues. Biopolymers, 2011, 95, 354-364.	2.4	12
52	Coarseâ€grained dynamics of the receiver domain of NtrC: Fluctuations, correlations and implications for allosteric cooperativity. Proteins: Structure, Function and Bioinformatics, 2008, 73, 218-227.	2.6	11
53	NMR studies of interactions between Bax and BH3 domain-containing peptides in the absence and presence of CHAPS. Archives of Biochemistry and Biophysics, 2014, 545, 33-43.	3.0	11
54	Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. Journal of Magnetic Resonance, 2019, 305, 146-151.	2.1	11

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55	Solution structure of peptides from HIV-1 Vpr protein that cause membrane permeabilization and growth arrest. Journal of Peptide Science, 1998, 4, 426-435.	1.4	9
56	Measuring translational diffusion of 15N-enriched biomolecules in complex solutions with a simplified 1H-15N HMQC-filtered BEST sequence. European Biophysics Journal, 2018, 47, 891-902.	2.2	9
57	Physiochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. Langmuir, 2020, 36, 6254-6260.	3.5	8
58	NMR spectroscopy of lipidic cubic phases. Biophysical Reviews, 2022, 14, 67-74.	3.2	8
59	1H, 13C and 15N resonance assignments of a highly-soluble murine interleukin-3 analogue with wild-type bioactivity. Biomolecular NMR Assignments, 2010, 4, 73-77.	0.8	6
60	1H, 13C and 15N resonance assignments of the C-terminal domain of insulin-like growth factor binding protein-6 (IGFBP-6). Journal of Biomolecular NMR, 2003, 25, 251-252.	2.8	5
61	Hydrodynamic radii of solubilized high amylose native and modified starches by pulsed field gradient NMR diffusion measurements. Food Hydrocolloids, 2014, 40, 16-21.	10.7	5
62	Characterisation of the conformational preference and dynamics of the intrinsically disordered N-terminal region of Beclin 1 by NMR spectroscopy. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1128-1137.	2.3	5
63	Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. Journal of Physical Chemistry B, 2021, 125, 571-580.	2.6	5
64	Insulin-like growth factor-I (IGF-I): Solution properties and NMR chemical shift assignments near physiological pH. Growth Hormone and IGF Research, 2009, 19, 226-231.	1.1	3
65	NMR measurement of biomolecular translational and rotational motion for evaluating changes of protein oligomeric state in solution. European Biophysics Journal, 2022, 51, 193-204.	2.2	3
66	Nutation frequency modulation on NMR signal of nuclear spins in chemical exchange with solvent water under the BEST conditions. Magnetic Resonance in Chemistry, 2014, 52, 190-194.	1.9	2
67	Water diffusion in complex systems measured by PGSEÂNMR using chemical shift selective stimulated echo: Elimination of magnetization exchange effects. Journal of Chemical Physics, 2021, 155, 224203.	3.0	2
68	The SPRY domainâ€“containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. Journal of Experimental Medicine, 2010, 207, i22-i22.	8.5	0