

# Shenggen Yao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

3,012

citations

27

h-index

54

g-index

68

ext. papers

3,356

ext. citations

6.1

avg, IF

4.4

L-index

#	Paper	IF	Citations
68	NMR spectroscopy of lipidic cubic phases.. <i>Biophysical Reviews</i> , <b>2022</b> , 14, 67-74	3.7	1
67	NMR measurement of biomolecular translational and rotational motion for evaluating changes of protein oligomeric state in solution.. <i>European Biophysics Journal</i> , <b>2022</b> , 1	1.9	0
66	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> , <b>2021</b> , 155, 224203	3.9	
65	Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 571-580	3.4	1
64	Physiochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. <i>Langmuir</i> , <b>2020</b> , 36, 6254-6260	4	3
63	Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. <i>Journal of Magnetic Resonance</i> , <b>2019</b> , 305, 146-151	3	6
62	Structural insights into BCL2 pro-survival protein interactions with the key autophagy regulator BECN1 following phosphorylation by STK4/MST1. <i>Autophagy</i> , <b>2019</b> , 15, 785-795	10.2	17
61	The molecular basis of JAK/STAT inhibition by SOCS1. <i>Nature Communications</i> , <b>2018</b> , 9, 1558	17.4	141
60	Discovery and characterization of a sulfoquinovose mutarotase using kinetic analysis at equilibrium by exchange spectroscopy. <i>Biochemical Journal</i> , <b>2018</b> , 475, 1371-1383	3.8	13
59	Measuring translational diffusion of N-enriched biomolecules in complex solutions with a simplified H-N HMQC-filtered BEST sequence. <i>European Biophysics Journal</i> , <b>2018</b> , 47, 891-902	1.9	6
58	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> , <b>2017</b> , 9, 2471-2478	7.7	27
57	Lipidic Cubic Phase-Induced Membrane Protein Crystallization: Interplay Between Lipid Molecular Structure, Mesophase Structure and Properties, and Crystallogenesis. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 5667-5674	3.5	9
56	C-Terminal Modification and Multimerization Increase the Efficacy of a Proline-Rich Antimicrobial Peptide. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 390-396	4.8	19
55	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> , <b>2016</b> , 1864, 1128-1137	4	5
54	The BECN1N-terminal domain is intrinsically disordered. <i>Autophagy</i> , <b>2016</b> , 12, 460-71	10.2	16
53	Characterization of the Lipid-Binding Site of Equinatoxin II by NMR and Molecular Dynamics Simulation. <i>Biophysical Journal</i> , <b>2015</b> , 108, 1987-96	2.9	34
52	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> , <b>2014</b> , 545, 33-43	4.1	10

51	Measuring translational diffusion coefficients of peptides and proteins by PFG-NMR using band-selective RF pulses. <i>European Biophysics Journal</i> , <b>2014</b> , 43, 331-9	1.9	25
50	Hydrodynamic radii of solubilized high amylose native and modified starches by pulsed field gradient NMR diffusion measurements. <i>Food Hydrocolloids</i> , <b>2014</b> , 40, 16-21	10.6	4
49	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> , <b>2014</b> , 52, 190-4	2.1	2
48	Bax crystal structures reveal how BH3 domains activate Bax and nucleate its oligomerization to induce apoptosis. <i>Cell</i> , <b>2013</b> , 152, 519-31	56.2	402
47	Exchange enhanced sensitivity gain for solvent-exchangeable protons in 2D 1H-15N heteronuclear correlation spectra acquired with band-selective pulses. <i>Journal of Magnetic Resonance</i> , <b>2011</b> , 211, 243-7		11
46	Peptide inhibitors of the malaria surface protein, apical membrane antigen 1: identification of key binding residues. <i>Biopolymers</i> , <b>2011</b> , 95, 354-64	2.2	12
45	Murine interleukin-3: structure, dynamics, and conformational heterogeneity in solution. <i>Biochemistry</i> , <b>2011</b> , 50, 2464-77	3.2	16
44	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Cell Biology</i> , <b>2010</b> , 190, 129-41	7.3	78
43	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> , <b>2010</b> , 401, 389-402	6.5	54
42	1H, 13C and 15N resonance assignments of a highly-soluble murine interleukin-3 analogue with wild-type bioactivity. <i>Biomolecular NMR Assignments</i> , <b>2010</b> , 4, 73-7	0.7	6
41	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Experimental Medicine</i> , <b>2010</b> , 207, i22-i22	16.6	
40	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> , <b>2009</b> , 106, 5082-7	11.5	55
39	Insulin-like growth factor-I (IGF-I): solution properties and NMR chemical shift assignments near physiological pH. <i>Growth Hormone and IGF Research</i> , <b>2009</b> , 19, 226-31	2	3
38	SPRY domain-containing SOCS box protein 2: crystal structure and residues critical for protein binding. <i>Journal of Molecular Biology</i> , <b>2009</b> , 386, 662-74	6.5	37
37	Solution conformation, backbone dynamics and lipid interactions of the intrinsically unstructured malaria surface protein MSP2. <i>Journal of Molecular Biology</i> , <b>2008</b> , 379, 105-21	6.5	52
36	The SOCS box domain of SOCS3: structure and interaction with the elonginBC-cullin5 ubiquitin ligase. <i>Journal of Molecular Biology</i> , <b>2008</b> , 381, 928-40	6.5	83
35	Structure, dynamics, and selectivity of the sodium channel blocker mu-conotoxin SIIIA. <i>Biochemistry</i> , <b>2008</b> , 47, 10940-9	3.2	59
34	Coarse-grained dynamics of the receiver domain of NtrC: fluctuations, correlations and implications for allosteric cooperativity. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 73, 218-27	4.2	11

33	Protein effective rotational correlation times from translational self-diffusion coefficients measured by PFG-NMR. <i>Biophysical Chemistry</i> , <b>2008</b> , 136, 145-51	3.5	33
32	Cooperativity of the N- and C-terminal domains of insulin-like growth factor (IGF) binding protein 2 in IGF binding. <i>Biochemistry</i> , <b>2007</b> , 46, 13720-32	3.2	22
31	The N-terminal subdomain of insulin-like growth factor (IGF) binding protein 6. Structure and interaction with IGFs. <i>Biochemistry</i> , <b>2007</b> , 46, 3065-74	3.2	16
30	Merozoite surface protein 2 of Plasmodium falciparum: expression, structure, dynamics, and fibril formation of the conserved N-terminal domain. <i>Biopolymers</i> , <b>2007</b> , 87, 12-22	2.2	40
29	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> , <b>2006</b> , 364, 690-704	6.5	45
28	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> , <b>2006</b> , 22, 205-16	17.6	133
27	The SPRY domain of SSB-2 adopts a novel fold that presents conserved Par-4-binding residues. <i>Nature Structural and Molecular Biology</i> , <b>2006</b> , 13, 77-84	17.6	68
26	Dynamics of the SPRY domain-containing SOCS box protein 2: flexibility of key functional loops. <i>Protein Science</i> , <b>2006</b> , 15, 2761-72	6.3	12
25	Copper and Zinc Mediated Oligomerisation of A $\beta$ Peptides. <i>International Journal of Peptide Research and Therapeutics</i> , <b>2006</b> , 12, 153-164	2.1	33
24	Structure and inter-domain interactions of domain II from the blood-stage malarial protein, apical membrane antigen 1. <i>Journal of Molecular Biology</i> , <b>2005</b> , 350, 641-56	6.5	29
23	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> , <b>2005</b> , 272, 6120-30	5.7	43
22	Backbone <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N assignments of the 25 kDa SPRY domain-containing SOCS box protein 2 (SSB-2). <i>Journal of Biomolecular NMR</i> , <b>2005</b> , 31, 69-70	3	14
21	Affinity maturation of leukemia inhibitory factor and conversion to potent antagonists of signaling. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 2125-34	5.4	25
20	C-terminal domain of insulin-like growth factor (IGF) binding protein-6: structure and interaction with IGF-II. <i>Molecular Endocrinology</i> , <b>2004</b> , 18, 2740-50		39
19	Characterizing bathocuproine self-association and subsequent binding to Alzheimer's disease amyloid beta-peptide by NMR. <i>Journal of Peptide Science</i> , <b>2004</b> , 10, 210-7	2.1	18
18	C-terminal domain of insulin-like growth factor (IGF) binding protein 6: conformational exchange and its correlation with IGF-II binding. <i>Biochemistry</i> , <b>2004</b> , 43, 11187-95	3.2	15
17	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> , <b>2004</b> , 568, 19-22	3.8	18
16	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N resonance assignments of the C-terminal domain of insulin-like growth factor binding protein-6 (IGFBP-6). <i>Journal of Biomolecular NMR</i> , <b>2003</b> , 25, 251-2	3	4

15	Stabilization of the helical structure of Y2-selective analogues of neuropeptide Y by lactam bridges. <i>Journal of Medicinal Chemistry</i> , <b>2002</b> , 45, 2310-8	8.3	16
14	Aromatase-deficient (ArKO) mice accumulate excess adipose tissue. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2001</b> , 79, 3-9	5.1	109
13	Gradient refractive index of the crystalline lens of the Black Oreo Dory ( <i>Allocyttus Niger</i> ): comparison of magnetic resonance imaging (MRI) and laser ray-trace methods. <i>Vision Research</i> , <b>2001</b> , 41, 973-9	2.1	38
12	Backbone dynamics measurements on leukemia inhibitory factor, a rigid four-helical bundle cytokine. <i>Protein Science</i> , <b>2000</b> , 9, 671-82	6.3	12
11	Peptide self-association in aqueous trifluoroethanol monitored by pulsed field gradient NMR diffusion measurements. <i>Journal of Biomolecular NMR</i> , <b>2000</b> , 16, 109-19	3	93
10	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> , <b>2000</b> , 97, 12735-40	11.5	587
9	Improved Estimation of Protein Rotational Correlation Times from 15N Relaxation Measurements. <i>Journal of Magnetic Resonance</i> , <b>1998</b> , 131, 347-50	3	12
8	Solution structure of peptides from HIV-1 Vpr protein that cause membrane permeabilization and growth arrest <b>1998</b> , 4, 426-435		9
7	An investigation of concentration polarization phenomena in membrane filtration of colloidal silica suspensions by NMR micro-imaging. <i>Journal of Membrane Science</i> , <b>1998</b> , 145, 145-158	9.6	48
6	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> , <b>1997</b> , 15, 235-42	3.3	18
5	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> , <b>1996</b> , 118, 247-257	9.6	45
4	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> , <b>1995</b> , 99, 207-216	9.6	61
3	Quantitative magnetic resonance flow and diffusion imaging in porous media. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 729-38	3.3	20
2	Quantitative NMR imaging of flow. <i>Concepts in Magnetic Resonance</i> , <b>1993</b> , 5, 281-302		103
1	Flow-selective pulse sequences. <i>Magnetic Resonance Imaging</i> , <b>1993</b> , 11, 585-91	3.3	16