

Conggang Li

List of Publications by Year in descending order

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112
papers

5,159
citations

101496

36
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69
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118
all docs

118
docs citations

118
times ranked

5393
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling N ₂ and CO ₂ in H ₂ O to synthesize urea under ambient conditions. <i>Nature Chemistry</i> , 2020, 12, 717-724.	6.6	485
2	Physicochemical Properties of Cells and Their Effects on Intrinsically Disordered Proteins (IDPs). <i>Chemical Reviews</i> , 2014, 114, 6661-6714.	23.0	391
3	How the Molecular Packing Affects the Room Temperature Phosphorescence in Pure Organic Compounds: Ingenious Molecular Design, Detailed Crystal Analysis, and Rational Theoretical Calculations. <i>Advanced Materials</i> , 2017, 29, 1606829.	11.1	351
4	Effects of Proteins on Protein Diffusion. <i>Journal of the American Chemical Society</i> , 2010, 132, 9392-9397.	6.6	223
5	Soft interactions and crowding. <i>Biophysical Reviews</i> , 2013, 5, 187-194.	1.5	205
6	Protein ¹⁹ F NMR in <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2010, 132, 321-327.	6.6	196
7	Backbone Structure of the Amantadine-Blocked Trans-Membrane Domain M2 Proton Channel from Influenza A Virus. <i>Biophysical Journal</i> , 2007, 92, 4335-4343.	0.2	175
8	Using low-E resonators to reduce RF heating in biological samples for static solid-state NMR up to 900MHz. <i>Journal of Magnetic Resonance</i> , 2007, 185, 77-93.	1.2	172
9	Volume Exclusion and Soft Interaction Effects on Protein Stability under Crowded Conditions. <i>Biochemistry</i> , 2010, 49, 6984-6991.	1.2	148
10	Differential Dynamical Effects of Macromolecular Crowding on an Intrinsically Disordered Protein and a Globular Protein: Implications for In-Cell NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 6310-6311.	6.6	119
11	Mechanoluminescence or Room-Temperature Phosphorescence: Molecular Packing-Dependent Emission Response. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17297-17302.	7.2	116
12	Azobenzene-Based Colorimetric Chemosensors for Rapid Naked-Eye Detection of Mercury(II). <i>Chemistry - A European Journal</i> , 2011, 17, 7276-7281.	1.7	108
13	3D structure determination of a protein in living cells using paramagnetic NMR spectroscopy. <i>Chemical Communications</i> , 2016, 52, 10237-10240.	2.2	90
14	Solid-state NMR characterization of conformational plasticity within the transmembrane domain of the influenza A M2 proton channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 3162-3170.	1.4	89
15	Residue-Level Interrogation of Macromolecular Crowding Effects on Protein Stability. <i>Journal of the American Chemical Society</i> , 2008, 130, 6826-6830.	6.6	88
16	In Situ Structural Characterization of a Recombinant Protein in Native <i>Escherichia coli</i> Membranes with Solid-State Magic-Angle-Spinning NMR. <i>Journal of the American Chemical Society</i> , 2011, 133, 12370-12373.	6.6	83
17	¹⁹ F NMR Spectroscopy as a Probe of Cytoplasmic Viscosity and Weak Protein Interactions in Living Cells. <i>Chemistry - A European Journal</i> , 2013, 19, 12705-12710.	1.7	83
18	Translational and Rotational Diffusion of a Small Globular Protein under Crowded Conditions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13390-13392.	1.2	82

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19	19F NMR Studies of Î±-Synuclein Conformation and Fibrillation. <i>Biochemistry</i> , 2009, 48, 8578-8584.	1.2	76
20	Protein Nuclear Magnetic Resonance under Physiological Conditions. <i>Biochemistry</i> , 2009, 48, 226-234.	1.2	75
21	Using NMR to Distinguish Viscosity Effects from Nonspecific Protein Binding under Crowded Conditions. <i>Journal of the American Chemical Society</i> , 2009, 131, 1368-1369.	6.6	61
22	¹⁹ F NMR studies of Î±-Synuclein-membrane interactions. <i>Protein Science</i> , 2010, 19, 1686-1691.	3.1	58
23	NMR studies of protein folding and binding in cells and cell-like environments. <i>Current Opinion in Structural Biology</i> , 2015, 30, 7-16.	2.6	58
24	High-Generation Second-Order Nonlinear Optical (NLO) Dendrimers that Contain Isolation Chromophores: Convenient Synthesis by Using Click Chemistry and their Increased NLO Effects. <i>Chemistry - A European Journal</i> , 2012, 18, 11019-11028.	1.7	55
25	Structure-guided post-SELEX optimization of an ochratoxin A aptamer. <i>Nucleic Acids Research</i> , 2019, 47, 5963-5972.	6.5	51
26	Lipid bilayers: an essential environment for the understanding of membrane proteins. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S2-S11.	1.1	49
27	The intracellular environment affects protein-protein interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	49
28	Solid-State NMR and MD Simulations of the Antiviral Drug Amantadine Solubilized in DMPC Bilayers. <i>Biophysical Journal</i> , 2008, 94, 1295-1302.	0.2	45
29	NMR-Based Methods for Protein Analysis. <i>Analytical Chemistry</i> , 2021, 93, 1866-1879.	3.2	43
30	A relay strategy for the mercury (II) chemodosimeter with ultra-sensitivity as test strips. <i>Scientific Reports</i> , 2015, 5, 15987.	1.6	42
31	Macromolecular and Small Molecular Crowding Have Similar Effects on Î±-Synuclein Structure. <i>ChemPhysChem</i> , 2017, 18, 55-58.	1.0	41
32	CRISPR-Cas12a <i>trans</i> -cleaves DNA G-quadruplexes. <i>Chemical Communications</i> , 2020, 56, 12526-12529.	2.2	40
33	Protein dynamics in living cells studied by in-cell NMR spectroscopy. <i>FEBS Letters</i> , 2013, 587, 1008-1011.	1.3	39
34	Determination of Molecular Self-Diffusion Coefficient Using Multiple Spin-Echo NMR Spectroscopy with Removal of Convection and Background Gradient Artifacts. <i>Analytical Chemistry</i> , 2001, 73, 3528-3534.	3.2	38
35	Structural biology of transmembrane domains: Efficient production and characterization of transmembrane peptides by NMR. <i>Protein Science</i> , 2007, 16, 2153-2165.	3.1	38
36	Direct Observation of Ca ²⁺ -Induced Calmodulin Conformational Transitions in Intact <i>Xenopus laevis</i> Oocytes by ¹⁹ F-NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5328-5330.	7.2	38

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37	DNA quadruplexes as molecular scaffolds for controlled assembly of fluorogens with aggregation-induced emission. <i>Chemical Science</i> , 2018, 9, 2559-2566.	3.7	38
38	A pH-gated conformational switch regulates the phosphatase activity of bifunctional HisKA-family histidine kinases. <i>Nature Communications</i> , 2017, 8, 2104.	5.8	37
39	Structural Insights into the Mechanism of High-Affinity Binding of Ochratoxin A by a DNA Aptamer. <i>Journal of the American Chemical Society</i> , 2022, 144, 7731-7740.	6.6	36
40	Magnetic Resonance Spectroscopy as a Tool for Assessing Macromolecular Structure and Function in Living Cells. <i>Annual Review of Analytical Chemistry</i> , 2017, 10, 157-182.	2.8	35
41	Analysis of RF heating and sample stability in aligned static solid-state NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2006, 180, 51-57.	1.2	33
42	Uniformly Aligned Full-Length Membrane Proteins in Liquid Crystalline Bilayers for Structural Characterization. <i>Journal of the American Chemical Society</i> , 2007, 129, 5304-5305.	6.6	32
43	Reversible manipulation of the G-quadruplex structures and enzymatic reactions through supramolecular host-guest interactions. <i>Nucleic Acids Research</i> , 2017, 45, gkx025.	6.5	32
44	An upper limit for macromolecular crowding effects. <i>BMC Biophysics</i> , 2011, 4, 13.	4.4	29
45	Using NMR-Detected Backbone Amide ¹ H Exchange to Assess Macromolecular Crowding Effects on Globular-Protein Stability. <i>Methods in Enzymology</i> , 2009, 466, 1-18.	0.4	28
46	Positively Charged Tags Impede Protein Mobility in Cells as Quantified by ¹⁹ F NMR. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4527-4533.	1.2	28
47	The Cucurbit[7]Uril-Based Supramolecular Chemistry for Reversible B/Z-DNA Transition. <i>Advanced Science</i> , 2018, 5, 1800231.	5.6	26
48	Mechanoluminescence or Room-Temperature Phosphorescence: Molecular Packing-Dependent Emission Response. <i>Angewandte Chemie</i> , 2019, 131, 17457-17462.	1.6	26
49	NMR Study on the Low-Affinity Interaction of Human Serum Albumin with Diclofenac Sodium.. <i>Chemical and Pharmaceutical Bulletin</i> , 2002, 50, 1017-1021.	0.6	25
50	A Reaction-Based Colorimetric Fluoride Probe: Rapid "Naked-Eye" Detection and Large Absorption Shift. <i>ChemPlusChem</i> , 2012, 77, 908-913.	1.3	24
51	Strategies for Protein NMR in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2014, 53, 1971-1981.	1.2	24
52	A dual fluorogenic and ¹⁹ F NMR probe for the detection of esterase activity. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1201-1206.	3.2	24
53	Labeling Strategy and Signal Broadening Mechanism of Protein NMR Spectroscopy in <i>Xenopus laevis</i> Oocytes. <i>Chemistry - A European Journal</i> , 2015, 21, 8686-8690.	1.7	23
54	Fluorine Pseudocontact Shifts Used for Characterizing the Protein-Ligand Interaction Mode in the Limit of NMR Intermediate Exchange. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12982-12986.	7.2	23

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55	Membrane Protein Structural Validation by Oriented Sample Solid-State NMR: Diacylglycerol Kinase. <i>Biophysical Journal</i> , 2014, 106, 1559-1569.	0.2	22
56	Ca ²⁺ modulating α -synuclein membrane transient interactions revealed by solution NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 853-858.	1.4	21
57	Quantification of size effect on protein rotational mobility in cells by ¹⁹ F NMR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 869-874.	1.9	21
58	Probing the Micelle-Bound Aggregation-Prone State of α -Synuclein with ¹⁹ F NMR Spectroscopy. <i>ChemBioChem</i> , 2010, 11, 1993-1996.	1.3	20
59	Analysis of competitive binding of ligands to human serum albumin using NMR relaxation measurements. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 34, 247-254.	1.4	19
60	Crowding and Confinement Can Oppositely Affect Protein Stability. <i>ChemPhysChem</i> , 2018, 19, 3350-3355.	1.0	19
61	α -synuclein-lanthanide metal ions interaction: binding sites, conformation and fibrillation. <i>BMC Biophysics</i> , 2015, 9, 1.	4.4	18
62	Recent advances in protein NMR spectroscopy and their implications in protein therapeutics research. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2279-2288.	1.9	17
63	Spherical Nanoparticle Supported Lipid Bilayers for the Structural Study of Membrane Geometry-Sensitive Molecules. <i>Journal of the American Chemical Society</i> , 2015, 137, 14031-14034.	6.6	17
64	Drug sensitivity, drug-resistant mutations, and structures of three conductance domains of viral porins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 538-546.	1.4	16
65	Simultaneous detection of small molecule thiols with a simple ¹⁹ F NMR platform. <i>Chemical Science</i> , 2021, 12, 1095-1100.	3.7	16
66	NASR: An Effective Approach for Simultaneous Noise and Artifact Suppression in NMR Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 2523-2528.	3.2	15
67	Impact of the α -Synuclein Initial Ensemble Structure on Fibrillation Pathways and Kinetics. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3140-3147.	1.2	14
68	Roles of structural plasticity in chaperone HdeA activity are revealed by ¹⁹ F NMR. <i>Chemical Science</i> , 2016, 7, 2222-2228.	3.7	14
69	A novel potent metal-binding NDM-1 inhibitor was identified by fragment virtual, SPR and NMR screening. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115437.	1.4	14
70	Solution structure and interaction with copper in vitro and in living cells of the first BIR domain of XIAP. <i>Scientific Reports</i> , 2017, 7, 16630.	1.6	13
71	Phosphorylation dependent α -synuclein degradation monitored by in-cell NMR. <i>Chemical Communications</i> , 2019, 55, 11215-11218.	2.2	13
72	Potential detection of cancer with fluorinated silicon nanoparticles in ¹⁹ F MR and fluorescence imaging. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4293-4300.	2.9	12

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73	Protein stability analysis in ionic liquids by ¹⁹ F NMR. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4929-4935.	1.9	12
74	Preferred formation of the carboxylic acidâ€“pyridine heterosynthon in 2-anilinicnicotinic acids. <i>RSC Advances</i> , 2016, 6, 81101-81109.	1.7	11
75	Structural Basis for the Inhibition of the Autophosphorylation Activity of HK853 by Luteolin. <i>Molecules</i> , 2019, 24, 933.	1.7	11
76	From Nitroâ€“to Sulfonylâ€“Based Chromophores: Improvement of the Comprehensive Performance of Nonlinear Optical Dendrimers. <i>Chemistry - A European Journal</i> , 2013, 19, 6874-6888.	1.7	10
77	Measuring ¹³ C/ ¹⁵ N chemical shift anisotropy in [¹³ C, ¹⁵ N] uniformly enriched proteins using CSA amplification. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 96-103.	1.5	10
78	Confinement Alters the Structure and Function of Calmodulin. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 530-534.	7.2	10
79	Dual-band selective double cross polarization for heteronuclear polarization transfer between dilute spins in solid-state MAS NMR. <i>Journal of Magnetic Resonance</i> , 2012, 217, 92-99.	1.2	9
80	Measurement of amide proton chemical shift anisotropy in perdeuterated proteins using CSA amplification. <i>Journal of Magnetic Resonance</i> , 2017, 284, 33-38.	1.2	9
81	Calcium accelerates SNARE-mediated lipid mixing through modulating $\hat{1}\pm$ -synuclein membrane interaction. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1848-1853.	1.4	9
82	Polymorphic Smooth Interfaces Formation Based on the Biphasic BaTeMo ₂ O ₉ Using Top Multi-Seeded Growth. <i>Crystal Growth and Design</i> , 2018, 18, 5054-5062.	1.4	9
83	Membraneâ€“mediated disorderâ€“toâ€“order transition of SNAP25 flexible linker facilitates its interaction with syntaxinâ€“1 and SNAREâ€“complex assembly. <i>FASEB Journal</i> , 2019, 33, 7985-7994.	0.2	8
84	NMR Spectroscopic Approach Reveals Metabolic Diversity of Human Blood Plasma Associated with Proteinâ€“Drug Interaction. <i>Analytical Chemistry</i> , 2013, 85, 8601-8608.	3.2	7
85	A ¹⁹ F NMR probe for the detection of $\hat{1}^2$ -galactosidase: simple structure with low molecular weight of 274.2, â€“turn-onâ€“signal without the background, and good performance applicable in cancer cell line. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4673-4678.	2.9	7
86	NMR backbone resonance assignment of New Delhi metallo-beta-lactamase. <i>Biomolecular NMR Assignments</i> , 2017, 11, 239-242.	0.4	7
87	A New Strategy to Reduce Toxicity of Ethidium Bromide by Alternating Anions: New Derivatives with Excellent Optical Performances, Convenient Synthesis, and Low Toxicity. <i>Small Methods</i> , 2020, 4, 1900779.	4.6	7
88	¹ H NMR study of low-affinity binding of ibuprofen to human serum albumin at different pH. <i>Applied Magnetic Resonance</i> , 2000, 19, 179-186.	0.6	6
89	Protein dynamics elucidated by NMR technique. <i>Protein and Cell</i> , 2013, 4, 726-730.	4.8	6
90	Effect of Substituent Size and Isomerization on the Polymorphism of 2-(Naphthalenylamino)-benzoic Acids. <i>Crystal Growth and Design</i> , 2019, 19, 3694-3703.	1.4	6

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91	REAL- <i>t</i> ₁ , an Effective Approach for <i>t</i> ₁ -Noise Suppression in NMR Spectroscopy Based on Resampling Algorithm. Chinese Journal of Chemistry, 2020, 38, 77-81.	2.6	6
92	The Effects of Macromolecular Crowding on Calmodulin Structure and Function. Chemistry - A European Journal, 2017, 23, 6736-6740.	1.7	5
93	Confinement Alters the Structure and Function of Calmodulin. Angewandte Chemie, 2017, 129, 545-549.	1.6	5
94	NMR for Mixture Analysis: Concentration-Ordered Spectroscopy. Analytical Chemistry, 2021, 93, 9697-9703.	3.2	5
95	Dimerization and Conformational Exchanges of the Receiver Domain of Response Regulator PhoB from <i>Escherichia coli</i> . Journal of Physical Chemistry B, 2018, 122, 5749-5757.	1.2	3
96	Structural Isomerization of 2-Anilonicotinic Acid Leads to a New Synthone in 6-Anilonicotinic Acids. Crystal Growth and Design, 2018, 18, 4849-4859.	1.4	3
97	O5SAR-PAGE: Separation of protein dimerization and modification using a gel with 0.05% sarkosyl. Analytica Chimica Acta, 2020, 1101, 193-198.	2.6	3
98	Rational modulation of the enzymatic intermediates for tuning the phosphatase activity of histidine kinase HK853. Biochemical and Biophysical Research Communications, 2020, 523, 733-738.	1.0	3
99	Self-Assembled Oligopeptide (FK) ₄ as a Chiral Alignment Medium for the Anisotropic NMR Analysis of Organic Compounds. ACS Applied Materials & Interfaces, 2022, 14, 29223-29229.	4.0	3
100	Backbone resonance assignment of the response regulator protein PhoBNF20D from <i>Escherichia coli</i> . Biomolecular NMR Assignments, 2018, 12, 133-137.	0.4	2
101	Monitoring alkaline transitions of yeast iso-1 cytochrome c at natural isotopic abundance using trimethyllysine as a native NMR probe. Chemical Communications, 2018, 54, 12630-12633.	2.2	2
102	Chemical shift assignments of the catalytic and ATP-binding domain of HK853 from <i>Thermotoga maritima</i> . Biomolecular NMR Assignments, 2019, 13, 173-176.	0.4	2
103	CSI-LSTM: a web server to predict protein secondary structure using bidirectional long short term memory and NMR chemical shifts. Journal of Biomolecular NMR, 2021, 75, 393-400.	1.6	2
104	Molecular Insight into the Extracellular Chaperone Serum Albumin in Modifying the Folding Free Energy Landscape of Client Proteins. Journal of Physical Chemistry Letters, 2022, 13, 2711-2717.	2.1	2
105	Lanmodulin remains unfolded and fails to interact with lanthanide ions in <i>Escherichia coli</i> cells. Chemical Communications, 2022, 58, 8230-8233.	2.2	2
106	Zwitterion formation and subsequent carboxylate-pyridinium NH synthon generation through isomerization of 2-anilonicotinic acid. CrystEngComm, 2018, 20, 6126-6132.	1.3	1
107	NMR backbone resonance assignment of Japanese encephalitis virus capsid protein. Biomolecular NMR Assignments, 2021, 15, 403-407.	0.4	1
108	Protein Diffusion and Macromolecular Crowding. Biophysical Journal, 2010, 98, 4a.	0.2	0

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109	Frontispiece: Labeling Strategy and Signal Broadening Mechanism of Protein NMR Spectroscopy in <i>Xenopus laevis</i> Oocytes. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	1.7	0
110	Fluorine Pseudocontact Shifts Used for Characterizing the Protein-Ligand Interaction Mode in the Limit of NMR Intermediate Exchange. <i>Angewandte Chemie</i> , 2017, 129, 13162-13166.	1.6	0
111	Mechanisms of Chaperones as Active Assistant/Protector for Proteins: Insights from NMR Studies. <i>Chinese Journal of Chemistry</i> , 2020, 38, 406-413.	2.6	0
112	Backbone resonance assignment of PDI b'xa' domain construct. <i>Biomolecular NMR Assignments</i> , 2021, 15, 409-413.	0.4	0