Xu Zhang

List of Publications by Year
in descending order

45	1,005	471509	454955
papers	citations	17	30
		h-index	g-index

45	45	45	1082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The auto-inhibition mechanism of transcription factor Ets-1 induced by phosphorylation on the intrinsically disordered region. Computational and Structural Biotechnology Journal, 2022, 20, 1132-1141.	4.1	3
2	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.	4.6	2
3	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.	8.0	3
4	NMR-Based Methods for Protein Analysis. Analytical Chemistry, 2021, 93, 1866-1879.	6.5	43
5	Unraveling the Microbial Mechanisms Underlying the Psychobiotic Potential of a *Bifidobacterium breve* Strain. Molecular Nutrition and Food Research, 2021, 65, e2000704.	3.3	24
6	NMR for Mixture Analysis: Concentration-Ordered Spectroscopy. Analytical Chemistry, 2021, 93, 9697-9703.	6.5	5
7	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.	2.8	2
8	NMR Reveals the Conformational Changes of Cytochrome C upon Interaction with Cardiolipin. Life, 2021, 11, 1031.	2.4	6
9	Photosensitive MRI biosensor for BCRP-Targeted uptake and light-induced inhibition of tumor cells. Talanta, 2021, 233, 122501.	5.5	1
10	Visible light driven CuBi2O4/Bi2MoO6 p-n heterojunction with enhanced photocatalytic inactivation of E. coli and mechanism insight. Journal of Hazardous Materials, 2020, 381, 121006.	12.4	134
11	REAL–*t*$_1$, an Effective Approach for *t*$_1$–Noise Suppression in NMR Spectroscopy Based on Resampling Algorithm. Chinese Journal of Chemistry, 2020, 38, 77-81.	4.9	6
12	An untargeted 13C isotopic evaluation approach for the discrimination of fermented food matrices at natural abundance: Application to vinegar. Talanta, 2020, 210, 120679.	5.5	3
13	Hyperpolarized Xe NMR signal advancement by metal-organic framework entrapment in aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17558-17563.	7.1	175
14	Accurate estimation of diffusion coefficient for molecular identification in a complex background. Analytical and Bioanalytical Chemistry, 2020, 412, 4519-4525.	3.7	1
15	A NMR-based drug screening strategy for discovering active substances from herbal medicines: Using Radix Polygoni Multiflori as example. Journal of Ethnopharmacology, 2020, 254, 112712.	4.1	8
16	Structural insight into the length-dependent binding of ssDNA by SP_0782 from Streptococcus pneumoniae, reveals a divergence in the DNA-binding interface of PC4-like proteins. Nucleic Acids Research, 2019, 48, 432-444.	14.5	4
17	Quantitative Determination of Fatty Acid Compositions in Edible Oils Using J-Selective 13C QDEPT. Food Analytical Methods, 2019, 12, 991-997.	2.6	0
18	The Study of the Aggregated Pattern of TX100 Micelle by Using Solvent Paramagnetic Relaxation Enhancements. Molecules, 2019, 24, 1649.	3.8	22

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19	Ingestion of *Bifidobacterium longum* subspecies *infantis* strain CCFM687 regulated emotional behavior and the central BDNF pathway in chronic stress-induced depressive mice through reshaping the gut microbiota. Food and Function, 2019, 10, 7588-7598.	4.6	60
20	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.	4.1	2
21	Characterization of the aggregated pattern of CHAPS using solvent paramagnetic relaxation enhancements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 332-338.	4.7	2
22	Characterization of the interaction interface and conformational dynamics of human TGIF1 homeodomain upon the binding of consensus DNA. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 1021-1028.	2.3	2
23	Determining the number of chemical species in nuclear magnetic resonance data matrix by taking advantage of collinearity and noise. Analytica Chimica Acta, 2018, 1022, 20-27.	5.4	0
24	Magnetic Resonance Spectroscopy as a Tool for Assessing Macromolecular Structure and Function in Living Cells. Annual Review of Analytical Chemistry, 2017, 10, 157-182.	5.4	35
25	Reconstructing diffusion ordered NMR spectroscopy by simultaneous inversion of Laplace transform. Journal of Magnetic Resonance, 2017, 278, 1-7.	2.1	19
26	NMR-based Metabolomics Analysis of Liver from C57BL/6 Mouse Exposed to Ionizing Radiation. Radiation Research, 2017, 188, 44.	1.5	17
27	13C-NMR-Based Metabolomic Profiling of Typical Asian Soy Sauces. Molecules, 2016, 21, 1168.	3.8	15
28	A Molecular Imaging Approach to Mercury Sensing Based on Hyperpolarized ^{129}Xe Molecular Clamp Probe. Chemistry - A European Journal, 2016, 22, 3967-3970.	3.3	22
29	Conformational Dynamics of apo‐GlnBP Revealed by Experimental and Computational Analysis. Angewandte Chemie, 2016, 128, 14196-14200.	2.0	5
30	NMR studies on the interactions between yeast Vta1 and Did2 during the multivesicular bodies sorting pathway. Scientific Reports, 2016, 6, 38710.	3.3	3
31	Compositional differences among Chinese soy sauce types studied by 13C NMR spectroscopy coupled with multivariate statistical analysis. Talanta, 2016, 158, 89-99.	5.5	26
32	Conformational Dynamics of apo‐GlnBP Revealed by Experimental and Computational Analysis. Angewandte Chemie - International Edition, 2016, 55, 13990-13994.	13.8	41
33	Characterization and Comparison of Commercial Chinese Cereal and European Grape Vinegars Using ^{1}H NMR Spectroscopy Combined with Multivariate Analysis. Chinese Journal of Chemistry, 2016, 34, 1183-1193.	4.9	5
34	Optimization protocol for the extraction of antioxidant components from Origanum vulgare leaves using response surface methodology. Saudi Journal of Biological Sciences, 2016, 23, 389-396.	3.8	47
35	NMR Based Cerebrum Metabonomic Analysis Reveals Simultaneous Interconnected Changes during Chick Embryo Incubation. PLoS ONE, 2015, 10, e0139948.	2.5	3
36	A 15N CPMG relaxation dispersion experiment more resistant to resonance offset and pulse imperfection. Journal of Magnetic Resonance, 2015, 257, 1-7.	2.1	39

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37	Structural Basis for Cytochrome c Y67H Mutant to Function as a Peroxidase. PLoS ONE, 2014, 9, e107305.	2.5	22
38	^{19}Fâ€…NMR Spectroscopy as a Probe of Cytoplasmic Viscosity and Weak Protein Interactions in Living Cells. Chemistry - A European Journal, 2013, 19, 12705-12710.	3.3	83
39	A Unified Controllability/Observability Theory for Some Stochastic and Deterministic Partial Differential Equations. , 2011, , .		4
40	Recent progress on controllability/observability for systems governed by partial differential equations. Journal of Systems Science and Complexity, 2010, 23, 527-545.	2.8	10
41	NMRâ€based Metabonomic Study on Rat's Urinary Metabolic Response to Dosage of Triptolide. Chinese Journal of Chemistry, 2009, 27, 751-758.	4.9	6
42	Classification of Wines Based on Combination of ^{1}H NMR Spectroscopy and Principal Component Analysis. Chinese Journal of Chemistry, 2007, 25, 930-936.	4.9	36
43	Structure-based drug design: NMR-based approach for ligandâ€"protein interactions. Drug Discovery Today: Technologies, 2006, 3, 241-245.	4.0	6
44	Hepatic targeting of macromolecular MRI contrast agents. Polymer International, 2002, 51, 892-898.	3.1	15
45	Determination of Molecular Self-Diffusion Coefficient Using Multiple Spin-Echo NMR Spectroscopy with Removal of Convection and Background Gradient Artifacts. Analytical Chemistry, 2001, 73, 3528-3534.	6.5	38