

Hongbin Sun

List of Publications by Year in descending order

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28
papers

1,536
citations

516561

16
h-index

501076

28
g-index

29
all docs

29
docs citations

29
times ranked

2716
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-protein spin resonance spectroscopy under ambient conditions. <i>Science</i> , 2015, 347, 1135-1138.	6.0	283
2	YTH Domain: A Family of N ⁶ -methyladenosine (m ⁶ A) Readers. <i>Genomics, Proteomics and Bioinformatics</i> , 2018, 16, 99-107.	3.0	277
3	Ca ²⁺ regulates T-cell receptor activation by modulating the charge property of lipids. <i>Nature</i> , 2013, 493, 111-115.	13.7	215
4	Controlled Intracellular Self-Assembly and Disassembly of ¹⁹ F Nanoparticles for MR Imaging of Caspase 3/7 in Zebrafish. <i>ACS Nano</i> , 2015, 9, 761-768.	7.3	108
5	Intracellular Self-Assembly and Disassembly of ¹⁹ F Nanoparticles Confer Respective On/Off and On/Off ¹⁹ F NMR/MRI Signals for Legumain Activity Detection in Zebrafish. <i>ACS Nano</i> , 2015, 9, 5117-5124.	7.3	95
6	Structure of human Mad1 C-terminal domain reveals its involvement in kinetochore targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6549-6554.	3.3	91
7	Furin-Controlled Fe ₃ O ₄ Nanoparticle Aggregation and ¹⁹ F Signal Turn On for Precise MR Imaging of Tumors. <i>Advanced Functional Materials</i> , 2019, 29, 1903860.	7.8	55
8	Solution structure of BRD7 bromodomain and its interaction with acetylated peptides from histone H3 and H4. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 435-441.	1.0	54
9	Mechanism of cargo recognition by retromer-linked SNX-BAR proteins. <i>PLoS Biology</i> , 2020, 18, e3000631.	2.6	51
10	Using On/Off ¹⁹ F NMR/Magnetic Resonance Imaging Signals to Sense Tyrosine Kinase/Phosphatase Activity in Vitro and in Cell Lysates. <i>Analytical Chemistry</i> , 2016, 88, 3363-3368.	3.2	44
11	Phosphorylation of the spindle checkpoint protein Mad2 regulates its conformational transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19772-19777.	3.3	38
12	Structure of an intermediate conformer of the spindle checkpoint protein Mad2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11252-11257.	3.3	31
13	Characterization of an alternative BAK-binding site for BH3 peptides. <i>Nature Communications</i> , 2020, 11, 3301.	5.8	31
14	Lipopolysaccharide induces amyloid formation of antimicrobial peptide HAL-2. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2910-2918.	1.4	27
15	A novel cecropin B-derived peptide with antibacterial and potential anti-inflammatory properties. <i>PeerJ</i> , 2018, 6, e5369.	0.9	27
16	Solution structure of calponin homology domain of Human MICAL-1. <i>Journal of Biomolecular NMR</i> , 2006, 36, 295-300.	1.6	18
17	Role of the Helical Structure of the N-Terminal Region of <i>Plasmodium falciparum</i> Merozoite Surface Protein 2 in Fibril Formation and Membrane Interaction. <i>Biochemistry</i> , 2012, 51, 1380-1387.	1.2	16
18	Recombinant expression, purification and characterization of antimicrobial peptide ORBK in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2014, 95, 182-187.	0.6	14

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19	Conformational change study of dengue virus NS2B-NS3 protease using ¹⁹ F NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2015, 461, 677-680.	1.0	14
20	NMR studies of the interactions between AMB-1 Mms6 protein and magnetosome Fe ₃ O ₄ nanoparticles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2888-2895.	2.9	12
21	Solution structure of the first SH3 domain of human vinexin and its interaction with vinculin peptides. <i>Biochemical and Biophysical Research Communications</i> , 2007, 357, 931-937.	1.0	9
22	Investigation of the four cooperative unfolding units existing in the MICAL-1 CH domain. <i>Biophysical Chemistry</i> , 2007, 129, 269-278.	1.5	7
23	Backbone and side-chain assignments for a novel CBM69 starch binding domain AmyP-SBD. <i>Biomolecular NMR Assignments</i> , 2017, 11, 235-237.	0.4	4
24	Mesoporous Silica Nanoparticle-Based Combination of NQO1 Inhibitor and 5-Fluorouracil for Potent Antitumor Effect Against Head and Neck Squamous Cell Carcinoma (HNSCC). <i>Nanoscale Research Letters</i> , 2019, 14, 387.	3.1	4
25	Ligand Induced Folding of the First Identified CBM69 Starch Binding Domain AmyP-SBD. <i>Protein and Peptide Letters</i> , 2018, 25, 362-367.	0.4	4
26	Crystal structure of the WD40 domain of human PRPF19. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 1250-1253.	1.0	3
27	Pulsed laser assisted synthesis of gadolinium carbide/carbon shell dots with enhanced magnetic resonance properties. <i>Nanotechnology</i> , 2019, 30, 105705.	1.3	2
28	Cuprous ions can disrupt the structure and functions of the RING finger domain of RNF11. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3820-3827.	3.0	2