

Rui Huang

List of Publications by Citations

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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.

26
papers

994
citations

17
h-index

27
g-index

27
ext. papers

1,175
ext. citations

7.7
avg, IF

4.2
L-index

#	Paper	IF	Citations
26	Structural and hydrodynamic properties of an intrinsically disordered region of a germ cell-specific protein on phase separation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8194-E8203	11.5	227
25	A model of the membrane-bound cytochrome b5-cytochrome P450 complex from NMR and mutagenesis data. <i>Journal of Biological Chemistry</i> , 2013 , 288, 22080-95	5.4	93
24	Structure of a AAA+ unfoldase in the process of unfolding substrate. <i>ELife</i> , 2017 , 6,	8.9	92
23	Mechanism of polymer-induced hemolysis: nanosized pore formation and osmotic lysis. <i>Biomacromolecules</i> , 2011 , 12, 260-8	6.9	83
22	Reconstitution of the Cytb5-CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4497-9	16.4	66
21	NMR characterization of monomeric and oligomeric conformations of human calcitonin and its interaction with EGCG. <i>Journal of Molecular Biology</i> , 2012 , 416, 108-20	6.5	59
20	Limiting an antimicrobial peptide to the lipid-water interface enhances its bacterial membrane selectivity: a case study of MSI-367. <i>Biochemistry</i> , 2010 , 49, 10595-605	3.2	57
19	Unfolding the mechanism of the AAA+ unfoldase VAT by a combined cryo-EM, solution NMR study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4190-9	11.5	47
18	Probing the transmembrane structure and dynamics of microsomal NADPH-cytochrome P450 oxidoreductase by solid-state NMR. <i>Biophysical Journal</i> , 2014 , 106, 2126-33	2.9	31
17	(13)CHD2-CEST NMR spectroscopy provides an avenue for studies of conformational exchange in high molecular weight proteins. <i>Journal of Biomolecular NMR</i> , 2015 , 63, 187-99	3	26
16	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. <i>Nature Communications</i> , 2018 , 9, 181	17.4	24
15	Cooperative subunit dynamics modulate p97 function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 158-167	11.5	24
14	Effects of membrane mimetics on cytochrome P450-cytochrome b5 interactions characterized by NMR spectroscopy. <i>Journal of Biological Chemistry</i> , 2015 , 290, 12705-18	5.4	22
13	Insights into the role of substrates on the interaction between cytochrome b5 and cytochrome P450 2B4 by NMR. <i>Scientific Reports</i> , 2015 , 5, 8392	4.9	19
12	Probing the cooperativity of proteasome core particle gating by NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9846-E9854	11.5	18
11	A Methyl-TROSY-Based H Relaxation Dispersion Experiment for Studies of Conformational Exchange in High Molecular Weight Proteins. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6250-6254	16.4	18
10	Probing slow timescale dynamics in proteins using methyl H CEST. <i>Journal of Biomolecular NMR</i> , 2017 , 68, 215-224	3	18

9	Kinetic and structural characterization of the interaction between the FMN binding domain of cytochrome P450 reductase and cytochrome c. <i>Journal of Biological Chemistry</i> , 2015 , 290, 4843-4855	5.4	17
8	Cytochrome-P450-cytochrome-b5 interaction in a membrane environment changes 15N chemical shift anisotropy tensors. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13851-60	3.4	14
7	Reconstitution of the Cytb5/CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 4573-4575	3.6	13
6	Exploring long-range cooperativity in the 20S proteasome core particle from using methyl-TROSY-based NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 5298-5309	11.5	10
5	An enhanced sensitivity methyl H triple-quantum pulse scheme for measuring diffusion constants of macromolecules. <i>Journal of Biomolecular NMR</i> , 2017 , 68, 249-255	3	8
4	An intrinsically disordered motif regulates the interaction between the p47 adaptor and the p97 AAA+ ATPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26226-26236	11.5	6
3	A Methyl-TROSY-Based 1H Relaxation Dispersion Experiment for Studies of Conformational Exchange in High Molecular Weight Proteins. <i>Angewandte Chemie</i> , 2019 , 131, 6316-6320	3.6	1
2	Probing Cooperativity of N-Terminal Domain Orientations in the p97 Molecular Machine: Synergy Between NMR Spectroscopy and Cryo-EM. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22423-22426	16.4	1
1	Probing Cooperativity of N-Terminal Domain Orientations in the p97 Molecular Machine: Synergy Between NMR Spectroscopy and Cryo-EM. <i>Angewandte Chemie</i> , 2020 , 132, 22609-22612	3.6	