

# Rui Huang

## 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.

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	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> , <b>2020</b> , 117, 5298-5309	11.5	10
25	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> , <b>2020</b> , 117, 26226-26236	11.5	6
24	Probing Cooperativity of N-Terminal Domain Orientations in the p97 Molecular Machine: Synergy Between NMR Spectroscopy and Cryo-EM. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22609-22612	3.6	
23	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> , <b>2020</b> , 59, 22423-22426	16.4	1
22	A Methyl-TROSY-Based <sup>1</sup> H Relaxation Dispersion Experiment for Studies of Conformational Exchange in High Molecular Weight Proteins. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6250-6254	16.4	18
21	A Methyl-TROSY-Based <sup>1</sup> H Relaxation Dispersion Experiment for Studies of Conformational Exchange in High Molecular Weight Proteins. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6316-6320	3.6	1
20	Cooperative subunit dynamics modulate p97 function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 158-167	11.5	24
19	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. <i>Nature Communications</i> , <b>2018</b> , 9, 181	17.4	24
18	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> , <b>2017</b> , 114, E9846-E9854	11.5	18
17	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> , <b>2017</b> , 114, E8194-E8203	11.5	227
16	An enhanced sensitivity methyl <sup>1</sup> H triple-quantum pulse scheme for measuring diffusion constants of macromolecules. <i>Journal of Biomolecular NMR</i> , <b>2017</b> , 68, 249-255	3	8
15	Structure of a AAA+ unfoldase in the process of unfolding substrate. <i>ELife</i> , <b>2017</b> , 6,	8.9	92
14	Probing slow timescale dynamics in proteins using methyl <sup>1</sup> H CEST. <i>Journal of Biomolecular NMR</i> , <b>2017</b> , 68, 215-224	3	18
13	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> , <b>2016</b> , 113, E4190-9	11.5	47
12	Reconstitution of the Cytb5-CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4573-4575	3.6	13
11	Reconstitution of the Cytb5-CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4497-9	16.4	66
10	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> , <b>2015</b> , 290, 4843-4855	5.4	17

9	Effects of membrane mimetics on cytochrome P450-cytochrome b5 interactions characterized by NMR spectroscopy. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 12705-18	5-4	22
8	(13)CHD2-CEST NMR spectroscopy provides an avenue for studies of conformational exchange in high molecular weight proteins. <i>Journal of Biomolecular NMR</i> , <b>2015</b> , 63, 187-99	3	26
7	Insights into the role of substrates on the interaction between cytochrome b5 and cytochrome P450 2B4 by NMR. <i>Scientific Reports</i> , <b>2015</b> , 5, 8392	4-9	19
6	Probing the transmembrane structure and dynamics of microsomal NADPH-cytochrome P450 oxidoreductase by solid-state NMR. <i>Biophysical Journal</i> , <b>2014</b> , 106, 2126-33	2-9	31
5	Cytochrome-P450-cytochrome-b5 interaction in a membrane environment changes 15N chemical shift anisotropy tensors. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 13851-60	3-4	14
4	A model of the membrane-bound cytochrome b5-cytochrome P450 complex from NMR and mutagenesis data. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 22080-95	5-4	93
3	NMR characterization of monomeric and oligomeric conformations of human calcitonin and its interaction with EGCG. <i>Journal of Molecular Biology</i> , <b>2012</b> , 416, 108-20	6-5	59
2	Mechanism of polymer-induced hemolysis: nanosized pore formation and osmotic lysis. <i>Biomacromolecules</i> , <b>2011</b> , 12, 260-8	6-9	83
1	Limiting an antimicrobial peptide to the lipid-water interface enhances its bacterial membrane selectivity: a case study of MSI-367. <i>Biochemistry</i> , <b>2010</b> , 49, 10595-605	3-2	57