

# Rui Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,326  
citations

430874

18  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2021  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and hydrodynamic properties of an intrinsically disordered region of a germ cell-specific protein on phase separation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8194-E8203.	7.1	381
2	Structure of a AAA+ unfoldase in the process of unfolding substrate. ELife, 2017, 6, .	6.0	119
3	A Model of the Membrane-bound Cytochrome b5-Cytochrome P450 Complex from NMR and Mutagenesis Data. Journal of Biological Chemistry, 2013, 288, 22080-22095.	3.4	105
4	Mechanism of Polymer-Induced Hemolysis: Nanosized Pore Formation and Osmotic Lysis. Biomacromolecules, 2011, 12, 260-268.	5.4	101
5	Reconstitution of the Cytb5-CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 4497-4499.	13.8	80
6	NMR Characterization of Monomeric and Oligomeric Conformations of Human Calcitonin and Its Interaction with EGCG. Journal of Molecular Biology, 2012, 416, 108-120.	4.2	66
7	Limiting an Antimicrobial Peptide to the Lipid-Water Interface Enhances Its Bacterial Membrane Selectivity: A Case Study of MSI-367. Biochemistry, 2010, 49, 10595-10605.	2.5	64
8	Unfolding the mechanism of the AAA+ unfoldase VAT by a combined cryo-EM, solution NMR study. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4190-9.	7.1	55
9	Probing the Transmembrane Structure and Dynamics of Microsomal NADPH-cytochrome P450 oxidoreductase by Solid-State NMR. Biophysical Journal, 2014, 106, 2126-2133.	0.5	38
10	A Methyl-TROSY-Based <sup>1</sup> H Relaxation Dispersion Experiment for Studies of Conformational Exchange in High Molecular Weight Proteins. Angewandte Chemie - International Edition, 2019, 58, 6250-6254.	13.8	31
11	Cooperative subunit dynamics modulate p97 function. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 158-167.	7.1	31
12	Effects of Membrane Mimetics on Cytochrome P450-Cytochrome b5 Interactions Characterized by NMR Spectroscopy. Journal of Biological Chemistry, 2015, 290, 12705-12718.	3.4	30
13	<sup>13</sup> CHD <sub>2</sub> -CEST NMR spectroscopy provides an avenue for studies of conformational exchange in high molecular weight proteins. Journal of Biomolecular NMR, 2015, 63, 187-199.	2.8	30
14	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. Nature Communications, 2018, 9, 181.	12.8	28
15	Insights into the Role of Substrates on the Interaction between Cytochrome b5 and Cytochrome P450 2B4 by NMR. Scientific Reports, 2015, 5, 8392.	3.3	24
16	Probing the cooperativity of Thermoplasma acidophilum proteasome core particle gating by NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9846-E9854.	7.1	22
17	Probing slow timescale dynamics in proteins using methyl <sup>1</sup> H CEST. Journal of Biomolecular NMR, 2017, 68, 215-224.	2.8	22
18	Kinetic and Structural Characterization of the Interaction between the FMN Binding Domain of Cytochrome P450 Reductase and Cytochrome c. Journal of Biological Chemistry, 2015, 290, 4843-4855.	3.4	20

#	ARTICLE	IF	CITATIONS
19	An intrinsically disordered motif regulates the interaction between the p47 adaptor and the p97 AAA+ ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26226-26236.	7.1	19
20	Exploring long-range cooperativity in the 20S proteasome core particle from <i>Thermoplasma acidophilum</i> using methyl-TROSY-based NMR. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5298-5309.	7.1	16
21	Cytochrome-P450-Cytochrome-b <sub>5</sub> Interaction in a Membrane Environment Changes <sup>15</sup> N Chemical Shift Anisotropy Tensors. Journal of Physical Chemistry B, 2013, 117, 13851-13860.	2.6	15
22	Reconstitution of the Cyt b <sub>5</sub> -CytP450 Complex in Nanodiscs for Structural Studies using NMR Spectroscopy. Angewandte Chemie, 2016, 128, 4573-4575.	2.0	13
23	An enhanced sensitivity methyl <sup>1</sup> H triple-quantum pulse scheme for measuring diffusion constants of macromolecules. Journal of Biomolecular NMR, 2017, 68, 249-255.	2.8	9
24	Probing Cooperativity of N-Terminal Domain Orientations in the p97 Molecular Machine: Synergy Between NMR Spectroscopy and Cryo-EM. Angewandte Chemie - International Edition, 2020, 59, 22423-22426.	13.8	4
25	A Methyl-TROSY-Based <sup>1</sup> H Relaxation Dispersion Experiment for Studies of Conformational Exchange in High Molecular Weight Proteins. Angewandte Chemie, 2019, 131, 6316-6320.	2.0	2
26	Probing Cooperativity of N-Terminal Domain Orientations in the p97 Molecular Machine: Synergy Between NMR Spectroscopy and Cryo-EM. Angewandte Chemie, 2020, 132, 22609-22612.	2.0	1