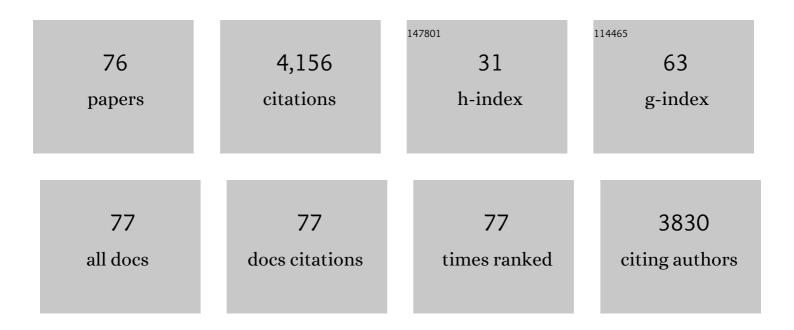
Jhih-Wei Chu

List of Publications by Year in descending order

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Інін-\//гі Сніі

#	Article	IF	CITATIONS
1	Structure-mechanics statistical learning uncovers mechanical relay in proteins. Chemical Science, 2022, 13, 3688-3696.	7.4	4
2	Edge weights in a protein elastic network reorganize collective motions and render long-range sensitivity responses. Journal of Chemical Physics, 2022, 156, .	3.0	2
3	APE1 distinguishes DNA substrates in exonucleolytic cleavage by induced space-filling. Nature Communications, 2021, 12, 601.	12.8	36
4	Understanding APE1 cellular functions by the structural preference of exonuclease activities. Computational and Structural Biotechnology Journal, 2021, 19, 3682-3691.	4.1	11
5	Mechanical couplings of protein backbone and side chains exhibit scale-free network properties and specific hotspots for function. Computational and Structural Biotechnology Journal, 2021, 19, 5309-5320.	4.1	5
6	Targeted Covalent Inhibitors Allosterically Deactivate the DEDDh Lassa Fever Virus NP Exonuclease from Alternative Distal Sites. Jacs Au, 2021, 1, 2315-2327.	7.9	3
7	Basal leakage in oscillation: Coupled transcriptional and translational control using feed-forward loops. PLoS Computational Biology, 2020, 16, e1007740.	3.2	3
8	Structure-mechanics statistical learning unravels the linkage between local rigidity and global flexibility in nucleic acids. Chemical Science, 2020, 11, 4969-4979.	7.4	10
9	Title is missing!. , 2020, 16, e1007740.		0
10	Title is missing!. , 2020, 16, e1007740.		0
11	Title is missing!. , 2020, 16, e1007740.		0
12	Title is missing!. , 2020, 16, e1007740.		0
13	Compound Molecular Logic in Accessing the Active Site of <i>Mycobacterium tuberculosis</i> Protein Tyrosine Phosphatase B. Journal of the American Chemical Society, 2018, 140, 14747-14752.	13.7	5
14	An incoherent feed-forward loop switches the Arabidopsis clock rapidly between two hysteretic states. Scientific Reports, 2018, 8, 13944.	3.3	36
15	Structural basis for overhang excision and terminal unwinding of DNA duplexes by TREX1. PLoS Biology, 2018, 16, e2005653.	5.6	28
16	Identifying the structural and kinetic elements in protein large-amplitude conformational motions. International Reviews in Physical Chemistry, 2017, 36, 185-227.	2.3	7
17	Calculation of Enzyme Fluctuograms from All-Atom Molecular Dynamics Simulation. Methods in Enzymology, 2016, 578, 327-342.	1.0	2
18	LWD–TCP complex activates the morning gene CCA1 in Arabidopsis. Nature Communications, 2016, 7, 13181.	12.8	109

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19	Importance of Internal Porosity for Glucan Adsorption in Mesoporous Carbon Materials. Langmuir, 2015, 31, 7288-7295.	3.5	30
20	Deactivation of lipopolysaccharide by Ar and H ₂ inductively coupled low-pressure plasma. Journal Physics D: Applied Physics, 2014, 47, 045202.	2.8	26
21	Dynamic mesoscale model of dipolar fluids via fluctuating hydrodynamics. Journal of Chemical Physics, 2014, 141, 174105.	3.0	1
22	Analysis of Trajectory Entropy for Continuous Stochastic Processes at Equilibrium. Journal of Physical Chemistry B, 2014, 118, 8099-8107.	2.6	15
23	Trajectory Entropy of Continuous Stochastic Processes at Equilibrium. Journal of Physical Chemistry Letters, 2014, 5, 999-1003.	4.6	17
24	Kinetic Modeling at Single-Molecule Resolution Elucidates the Mechanisms of Cellulase Synergy. ACS Catalysis, 2014, 4, 2216-2225.	11.2	20
25	Confocal Single-Molecule FRET for Protein Conformational Dynamics. Methods in Molecular Biology, 2014, 1084, 51-62.	0.9	14
26	Endoglucanase Peripheral Loops Facilitate Complexation of Glucan Chains on Cellulose via Adaptive Coupling to the Emergent Substrate Structures. Journal of Physical Chemistry B, 2013, 117, 10750-10758.	2.6	14
27	Fisher information metric for the Langevin equation and least informative models of continuous stochastic dynamics. Journal of Chemical Physics, 2013, 139, 121931.	3.0	13
28	Plasma Deactivation of Endotoxic Biomolecules: Vacuum Ultraviolet Photon and Radical Beam Effects on Lipid A. Plasma Processes and Polymers, 2013, 10, 167-180.	3.0	25
29	Preferential Interactions between Lithium Chloride and Glucan Chains in <i>N</i> , <i>N</i> -Dimethylacetamide Drive Cellulose Dissolution. Journal of Physical Chemistry B, 2013, 117, 3280-3286.	2.6	29
30	Expectation-Maximization of the Potential of Mean Force and Diffusion Coefficient in Langevin Dynamics from Single Molecule FRET Data Photon by Photon. Journal of Physical Chemistry B, 2013, 117, 15591-15605.	2.6	29
31	Systems-level Modeling with Molecular Resolution Elucidates the Rate-limiting Mechanisms of Cellulose Decomposition by Cellobiohydrolases. Journal of Biological Chemistry, 2013, 288, 29081-29089.	3.4	39
32	Linking hydrophobicity and hydrodynamics by the hybrid fluctuating hydrodynamics and molecular dynamics methodologies. Physical Review E, 2013, 88, 023305.	2.1	4
33	Thermodynamics of cellulose solvation in novel solvent mixtures. FASEB Journal, 2013, 27, .	0.5	0
34	Fluctuating hydrodynamics for multiscale modeling and simulation: Energy and heat transfer in molecular fluids. Journal of Chemical Physics, 2012, 137, 044117.	3.0	18
35	Entropy of cellulose dissolution in water and in the ionic liquid 1-butyl-3-methylimidazolim chloride. Physical Chemistry Chemical Physics, 2012, 14, 8425.	2.8	46
36	Degree of Polymerization of Glucan Chains Shapes the Structure Fluctuations and Melting Thermodynamics of a Cellulose Microfibril. Journal of Physical Chemistry B, 2012, 116, 8074-8083.	2.6	12

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37	Structural distributions from single-molecule measurements as a tool for molecular mechanics. Chemical Physics, 2012, 396, 61-71.	1.9	14
38	Dissecting Force Interactions in Cellulose Deconstruction Reveals the Required Solvent Versatility for Overcoming Biomass Recalcitrance. Journal of the American Chemical Society, 2011, 133, 14033-14041.	13.7	124
39	Thermodynamics of Cellulose Solvation in Water and the Ionic Liquid 1-Butyl-3-Methylimidazolim Chloride. Journal of Physical Chemistry B, 2011, 115, 13433-13440.	2.6	86
40	Protein Allostery at the Solid–Liquid Interface: Endoglucanase Attachment to Cellulose Affects Glucan Clenching in the Binding Cleft. Journal of the American Chemical Society, 2011, 133, 16617-16624.	13.7	22
41	Fluctuating hydrodynamics for multiscale simulation of inhomogeneous fluids: Mapping all-atom molecular dynamics to capillary waves. Journal of Chemical Physics, 2011, 135, 044111.	3.0	35
42	"Fluctuograms―Reveal the Intermittent Intra-Protein Communication in Subtilisin Carlsberg and Correlate Mechanical Coupling with Co-Evolution. PLoS Computational Biology, 2011, 7, e1002023.	3.2	19
43	On the Roles of Substrate Binding and Hinge Unfolding in Conformational Changes of Adenylate Kinase. Biophysical Journal, 2010, 99, 3420-3429.	0.5	49
44	On the Molecular Origins of Biomass Recalcitrance: The Interaction Network and Solvation Structures of Cellulose Microfibrils. Journal of Physical Chemistry B, 2010, 114, 13333-13341.	2.6	128
45	Modelling the viscoelasticity and thermal fluctuations of fluids at the nanoscale. Molecular Simulation, 2010, 36, 552-559.	2.0	10
46	Inversion of radial distribution functions to pair forces by solving the Yvon–Born–Green equation iteratively. Journal of Chemical Physics, 2009, 131, 134107.	3.0	43
47	Bridging fluctuating hydrodynamics and molecular dynamics simulations of fluids. Journal of Chemical Physics, 2009, 130, 134111.	3.0	49
48	Modeling the nanoscale viscoelasticity of fluids by bridging non-Markovian fluctuating hydrodynamics and molecular dynamics simulations. Journal of Chemical Physics, 2009, 131, 234115.	3.0	19
49	Decomposition of energy and free energy changes by following the flow of work along reaction path. Journal of Chemical Physics, 2009, 131, 144105.	3.0	18
50	Reaction Path Optimization with Holonomic Constraints and Kinetic Energy Potentials. Journal of Chemical Theory and Computation, 2009, 5, 2050-2061.	5.3	34
51	Intrinsic Bending and Structural Rearrangement of Tubulin Dimer: Molecular Dynamics Simulations and Coarse-Grained Analysis. Biophysical Journal, 2008, 95, 2487-2499.	0.5	61
52	The multiscale coarse-graining method. I. A rigorous bridge between atomistic and coarse-grained models. Journal of Chemical Physics, 2008, 128, 244114.	3.0	651
53	The multiscale coarse-graining method. II. Numerical implementation for coarse-grained molecular models. Journal of Chemical Physics, 2008, 128, 244115.	3.0	326
54	Illuminating the mechanistic roles of enzyme conformational dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18055-18060.	7.1	271

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55	Emerging methods for multiscale simulation of biomolecular systems. Molecular Physics, 2007, 105, 167-175.	1.7	61
56	Atomistic and Coarse-grained Analysis of Double Spectrin Repeat Units: The Molecular Origins of Flexibility. Journal of Molecular Biology, 2007, 365, 523-534.	4.2	18
57	Multiscale Coarse-Graining and Structural Correlations:Â Connections to Liquid-State Theory. Journal of Physical Chemistry B, 2007, 111, 4116-4127.	2.6	191
58	Coarse-Grained Free Energy Functions for Studying Protein Conformational Changes: A Double-Well Network Model. Biophysical Journal, 2007, 93, 3860-3871.	0.5	124
59	Coarse-Grained Modeling of the Actin Filament Derived from Atomistic-Scale Simulations. Biophysical Journal, 2006, 90, 1572-1582.	0.5	178
60	The multiscale challenge for biomolecular systems: coarse-grained modeling. Molecular Simulation, 2006, 32, 211-218.	2.0	63
61	Effects of Excipients on the Hydrogen Peroxide-Induced Oxidation of Methionine Residues in Granulocyte Colony-Stimulating Factor. Pharmaceutical Research, 2005, 22, 141-147.	3.5	35
62	Allostery of actin filaments: Molecular dynamics simulations and coarse-grained analysis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13111-13116.	7.1	178
63	Effects of Antioxidants on the Hydrogen Peroxide-Mediated Oxidation of Methionine Residues in Granulocyte Colony-Stimulating Factor and Human Parathyroid Hormone Fragment 13-34. Pharmaceutical Research, 2004, 21, 2377-2383.	3.5	39
64	A comprehensive picture of nonâ€site specific oxidation of methionine residues by peroxides in protein pharmaceuticals. Journal of Pharmaceutical Sciences, 2004, 93, 3096-3102.	3.3	54
65	A Structural and Mechanistic Study of the Oxidation of Methionine Residues in hPTH(1â^'34) via Experiments and Simulationsâ€. Biochemistry, 2004, 43, 14139-14148.	2.5	25
66	Molecular Dynamics Simulations and Oxidation Rates of Methionine Residues of Granulocyte Colony-Stimulating Factor at Different pH Values. Biochemistry, 2004, 43, 1019-1029.	2.5	51
67	On the Mechanisms of Oxidation of Organic Sulfides by H2O2in Aqueous Solutions. Journal of the American Chemical Society, 2004, 126, 900-908.	13.7	98
68	Oxidation of Methionine Residues in Aqueous Solutions:  Free Methionine and Methionine in Granulocyte Colony-Stimulating Factor. Journal of the American Chemical Society, 2004, 126, 16601-16607.	13.7	56
69	A super-linear minimization scheme for the nudged elastic band method. Journal of Chemical Physics, 2003, 119, 12708-12717.	3.0	163
70	Electrophoresis of a Sphere in a Spherical Cavity at Arbitrary Electrical Potentials. Langmuir, 2001, 17, 6289-6297.	3.5	29
71	Sedimentation of Concentrated Charged Spheres at Low Surface Potentials. Langmuir, 2000, 16, 1650-1654.	3.5	5
72	Sedimentation potential of a concentrated spherical colloidal suspension. Journal of Chemical Physics. 1999. 110. 11643-11651.	3.0	26

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73	Electrophoretic Mobility of a Concentrated Suspension of Spherical Particles. Journal of Colloid and Interface Science, 1999, 209, 240-246.	9.4	59
74	Electrophoretic Mobility of a Sphere in a Spherical Cavity. Journal of Colloid and Interface Science, 1998, 205, 65-76.	9.4	85
75	Electrophoretic Mobility of a Spherical Particle in a Spherical Cavity. Journal of Colloid and Interface Science, 1997, 196, 316-320.	9.4	46
76	On the Development of State-Specific Coarse-Grained Potentials of Water. , 0, , 233-250.		0