

Da-Wei Li

List of Publications by Year in descending order

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62
papers

2,355
citations

201674

27
h-index

223800

46
g-index

65
all docs

65
docs citations

65
times ranked

2509
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR-Based Protein Potentials. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6778-6780.	13.8	173
2	Formation and Growth of Oligomers: A Monte Carlo Study of an Amyloid Tau Fragment. <i>PLoS Computational Biology</i> , 2008, 4, e1000238.	3.2	104
3	Customized Metabolomics Database for the Analysis of NMR ¹ H- ¹ H TOCSY and ¹³ C- ¹ H HSQC-TOCSY Spectra of Complex Mixtures. <i>Analytical Chemistry</i> , 2014, 86, 5494-5501.	6.5	96
4	Unified and Isomer-Specific NMR Metabolomics Database for the Accurate Analysis of ¹³ C- ¹ H HSQC Spectra. <i>ACS Chemical Biology</i> , 2015, 10, 452-459.	3.4	96
5	Comprehensive Metabolite Identification Strategy Using Multiple Two-Dimensional NMR Spectra of a Complex Mixture Implemented in the COLMARm Web Server. <i>Analytical Chemistry</i> , 2016, 88, 12411-12418.	6.5	95
6	Protein Conformational Flexibility from Structure-Free Analysis of NMR Dipolar Couplings: Quantitative and Absolute Determination of Backbone Motion in Ubiquitin. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4154-4157.	13.8	87
7	Certification of Molecular Dynamics Trajectories with NMR Chemical Shifts. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 246-248.	4.6	79
8	Emerging new strategies for successful metabolite identification in metabolomics. <i>Bioanalysis</i> , 2016, 8, 557-573.	1.5	79
9	Iterative Optimization of Molecular Mechanics Force Fields from NMR Data of Full-Length Proteins. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1773-1782.	5.3	78
10	PPM: a side-chain and backbone chemical shift predictor for the assessment of protein conformational ensembles. <i>Journal of Biomolecular NMR</i> , 2012, 54, 257-265.	2.8	75
11	Dynamics of Lysine Side-Chain Amino Groups in a Protein Studied by Heteronuclear ¹ H- ¹⁵ N NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 909-919.	13.7	71
12	A Dictionary for Protein Side-Chain Entropies from NMR Order Parameters. <i>Journal of the American Chemical Society</i> , 2009, 131, 7226-7227.	13.7	67
13	Short-Range Coherence of Internal Protein Dynamics Revealed by High-Precision in Silico Study. <i>Journal of the American Chemical Society</i> , 2009, 131, 14610-14611.	13.7	61
14	DEEP picker is a deep neural network for accurate deconvolution of complex two-dimensional NMR spectra. <i>Nature Communications</i> , 2021, 12, 5229.	12.8	55
15	NMR Order Parameter Determination from Long Molecular Dynamics Trajectories for Objective Comparison with Experiment. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2599-2607.	5.3	54
16	Entropy Localization in Proteins. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16036-16044.	2.6	49
17	<i>In silico</i> Relationship between Configurational Entropy and Soft Degrees of Freedom in Proteins and Peptides. <i>Physical Review Letters</i> , 2009, 102, 118108.	7.8	43
18	Balanced Amino-Acid-Specific Molecular Dynamics Force Field for the Realistic Simulation of Both Folded and Disordered Proteins. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1311-1318.	5.3	43

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19	Deuterium Spin Probes of Backbone Order in Proteins: 2H NMR Relaxation Study of Deuterated Carbon $\hat{\pm}$ Sites. <i>Journal of the American Chemical Society</i> , 2009, 131, 15853-15865.	13.7	41
20	Signature of Mobile Hydrogen Bonding of Lysine Side Chains from Long-Range ^{15}N - ^{13}C Scalar J -Couplings and Computation. <i>Journal of the American Chemical Society</i> , 2011, 133, 9192-9195.	13.7	40
21	PPM_One: a static protein structure based chemical shift predictor. <i>Journal of Biomolecular NMR</i> , 2015, 62, 403-409.	2.8	40
22	Decoding the Mobility and Time Scales of Protein Loops. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1308-1314.	5.3	39
23	Examination of membrane fusion by dissipative particle dynamics simulation and comparison with continuum elastic models. <i>Journal of Chemical Physics</i> , 2005, 122, 174909.	3.0	37
24	Toward a Predictive Understanding of Slow Methyl Group Dynamics in Proteins. <i>Biophysical Journal</i> , 2011, 101, 910-915.	0.5	37
25	All-Atom Contact Model for Understanding Protein Dynamics from Crystallographic B-Factors. <i>Biophysical Journal</i> , 2009, 96, 3074-3081.	0.5	36
26	Probing Side-Chain Dynamics in Proteins by the Measurement of Nine Deuterium Relaxation Rates Per Methyl Group. <i>Journal of Physical Chemistry B</i> , 2012, 116, 606-620.	2.6	30
27	Improved Quantum Chemical NMR Chemical Shift Prediction of Metabolites in Aqueous Solution toward the Validation of Unknowns. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3071-3078.	2.5	29
28	2D NMR-Based Metabolomics with HSQC/TOCSY NOAH Supersequences. <i>Analytical Chemistry</i> , 2021, 93, 6112-6119.	6.5	28
29	Bond-Angle-Potential-Dependent Dissipative Particle Dynamics Simulation and Lipid Inverted Phase. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11206-11213.	2.6	27
30	Optical and thermal properties of nonlinear optical crystal $\text{LaCa}_4\text{O}(\text{BO}_3)_3$. <i>Chemical Physics Letters</i> , 2003, 372, 788-793.	2.6	26
31	Variation in Quadrupole Couplings of $\hat{\pm}$ Deuterons in Ubiquitin Suggests the Presence of $\text{C}-\hat{\pm}\text{H}-\hat{\pm}\text{O}-\text{C}$ Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2010, 132, 7709-7719.	13.7	26
32	Accurate Identification of Unknown and Known Metabolic Mixture Components by Combining 3D NMR with Fourier Transform Ion Cyclotron Resonance Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2017, 16, 3774-3786.	3.7	26
33	Evaluation of Configurational Entropy Methods from Peptide Folding $\hat{\pm}$ Unfolding Simulation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13807-13813.	2.6	25
34	Competitive Binding between Dynamic p53 Transactivation Subdomains to Human MDM2 Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 30376-30384.	3.4	25
35	COLMAR Lipids Web Server and Ultrahigh-Resolution Methods for Two-Dimensional Nuclear Magnetic Resonance- and Mass Spectrometry-Based Lipidomics. <i>Journal of Proteome Research</i> , 2020, 19, 1674-1683.	3.7	23
36	Quantitative Cooperative Binding Model for Intrinsically Disordered Proteins Interacting with Nanomaterials. <i>Journal of the American Chemical Society</i> , 2020, 142, 10730-10738.	13.7	22

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37	Structural and Pathway Complexity of Î²-Strand Reorganization within Aggregates of Human Transthyretin(105~115) Peptide. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5425-5433.	2.6	21
38	Quantitative Binding Behavior of Intrinsically Disordered Proteins to Nanoparticle Surfaces at Individual Residue Level. <i>Chemistry - A European Journal</i> , 2018, 24, 16997-17001.	3.3	21
39	Evaluation of Solvent Accessibility to the [Fe4S4] Binding Pocket in Native and Tyr19 Mutant High Potential Iron Proteins by 1H~15N HMQC and 19F NMR Experiments. <i>Inorganic Chemistry</i> , 1996, 35, 1121-1125.	4.0	19
40	Identification of Unknown Metabolomics Mixture Compounds by Combining NMR, MS, and Cheminformatics. <i>Methods in Enzymology</i> , 2019, 615, 407-422.	1.0	19
41	Systematic Differences between Current Molecular Dynamics Force Fields To Represent Local Properties of Intrinsically Disordered Proteins. <i>Journal of Physical Chemistry B</i> , 2021, 125, 798-804.	2.6	18
42	Nucleation-limited aggregation of crystallites in fractal growth. <i>Journal of Crystal Growth</i> , 2000, 208, 687-695.	1.5	16
43	Absolute Minimal Sampling of Homonuclear 2D NMR TOCSY Spectra for High-Throughput Applications of Complex Mixtures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8149-8152.	13.8	16
44	Accurate and Efficient Determination of Unknown Metabolites in Metabolomics by NMR-Based Molecular Motif Identification. <i>Analytical Chemistry</i> , 2019, 91, 15686-15693.	6.5	16
45	Consecutive Rotation of Crystallographic Orientation in Lateral Growth. <i>Physical Review Letters</i> , 2005, 94, 125505.	7.8	14
46	Temperature-Dependent Probabilistic Roadmap Algorithm for Calculating Variationally Optimized Conformational Transition Pathways. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 17-25.	5.3	14
47	Maximal clique method for the automated analysis of NMR TOCSY spectra of complex mixtures. <i>Journal of Biomolecular NMR</i> , 2017, 68, 195-202.	2.8	14
48	Non-Uniform and Absolute Minimal Sampling for High-Throughput Multidimensional NMR Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 11535-11544.	3.3	14
49	Extreme Nonuniform Sampling for Protein NMR Dynamics Studies in Minimal Time. <i>Journal of the American Chemical Society</i> , 2019, 141, 16829-16838.	13.7	12
50	Predicting the Folding Pathway of Engrailed Homeodomain with a Probabilistic Roadmap Enhanced Reaction-Path Algorithm. <i>Biophysical Journal</i> , 2008, 94, 1622-1629.	0.5	11
51	Model for the allosteric regulation of the N^aC^2+ exchanger NCX . <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 580-590.	2.6	11
52	Spontaneous Correlation of Crystallographic Orientations in Crystallite Aggregation: A Physical Origin and Its Influence on Pattern Formation. <i>Journal of Physical Chemistry B</i> , 2003, 107, 96-101.	2.6	10
53	Observation of Two Families of Folding Pathways of BBL. <i>Biophysical Journal</i> , 2011, 100, 2457-2465.	0.5	9
54	Cadaverine Is a Switch in the Lysine Degradation Pathway in <i>Pseudomonas aeruginosa</i> Biofilm Identified by Untargeted Metabolomics. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 833269.	3.9	9

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55	Protocol To Make Protein NMR Structures Amenable to Stable Long Time Scale Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1781-1787.	5.3	8
56	Absolute Minimal Sampling of Homonuclear 2D NMR TOCSY Spectra for High-Throughput Applications of Complex Mixtures. <i>Angewandte Chemie</i> , 2017, 129, 8261-8264.	2.0	8
57	COLMARq: A Web Server for 2D NMR Peak Picking and Quantitative Comparative Analysis of Cohorts of Metabolomics Samples. <i>Analytical Chemistry</i> , 2022, 94, 8674-8682.	6.5	8
58	Dynamic and Thermodynamic Signatures of Native and Non-Native Protein States with Application to the Improvement of Protein Structures. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2531-2539.	5.3	7
59	Statistical database analysis of the role of loop dynamics for protein-protein complex formation and allostery. <i>Bioinformatics</i> , 2017, 33, 1814-1819.	4.1	5
60	Fundamental and practical aspects of machine learning for the peak picking of biomolecular NMR spectra. <i>Journal of Biomolecular NMR</i> , 2022, 76, 49-57.	2.8	5
61	Reliable resonance assignments of selected residues of proteins with known structure based on empirical NMR chemical shift prediction. <i>Journal of Magnetic Resonance</i> , 2015, 254, 93-97.	2.1	1
62	A lateral growth mode leading to successive rotation of crystallographic orientation. <i>Surface and Interface Analysis</i> , 2006, 38, 1024-1027.	1.8	0