

# Kaifeng Hu

## List of Publications by Citations

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39  
papers

699  
citations

14  
h-index

26  
g-index

44  
ext. papers

827  
ext. citations

5.7  
avg, IF

3.71  
L-index

#	Paper	IF	Citations
39	Simultaneous quantification and identification of individual chemicals in metabolite mixtures by two-dimensional extrapolated time-zero (1)H-(13)C HSQC (HSQC(0)). <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1662-5	16.4	115
38	Structural basis for recognition of centromere histone variant CenH3 by the chaperone Scm3. <i>Nature</i> , <b>2011</b> , 472, 234-7	50.4	98
37	Deconvolution of two-dimensional NMR spectra by fast maximum likelihood reconstruction: application to quantitative metabolomics. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4871-80	7.8	71
36	In vitro phosphinate methylation by PhpK from <i>Kitasatospora phosalacinea</i> . <i>Biochemistry</i> , <b>2011</b> , 50, 8986-8	5.2	51
35	Molecular insights into the recognition of N-terminal histone modifications by the BRPF1 bromodomain. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 1661-76	6.5	47
34	Bavachinin, as a novel natural pan-PPAR agonist, exhibits unique synergistic effects with synthetic PPAR- $\alpha$ and PPAR- $\delta$ agonists on carbohydrate and lipid metabolism in db/db and diet-induced obese mice. <i>Diabetologia</i> , <b>2016</b> , 59, 1276-86	10.3	39
33	Measurement of absolute concentrations of individual compounds in metabolite mixtures by gradient-selective time-zero 1H-13C HSQC with two concentration references and fast maximum likelihood reconstruction analysis. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 9352-60	7.8	33
32	A minimal transmembrane beta-barrel platform protein studied by nuclear magnetic resonance. <i>Biochemistry</i> , <b>2007</b> , 46, 1128-40	3.2	29
31	Structural plasticity of peptidyl-prolyl isomerase sFkpA is a key to its chaperone function as revealed by solution NMR. <i>Biochemistry</i> , <b>2006</b> , 45, 11983-91	3.2	29
30	Solution NMR structures of productive and non-productive complexes between the A and B domains of the cytoplasmic subunit of the mannose transporter of the <i>Escherichia coli</i> phosphotransferase system. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 11024-37	5.4	22
29	Selective quantification by 2D HSQC0 spectroscopy of thiocoraline in an extract from a sponge-derived <i>Verrucosipora</i> sp. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 2295-8	4.9	19
28	Spin-state selective carbon-detected HNC0 with TROSY optimization in all dimensions and double echo-antiecho sensitivity enhancement in both indirect dimensions. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 5484-91	16.4	18
27	Targeted isolation and identification of bioactive compounds lowering cholesterol in the crude extracts of crabapples using UPLC-DAD-MS-SPE/NMR based on pharmacology-guided PLS-DA. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2018</b> , 150, 144-151	3.5	18
26	Statistically correlating NMR spectra and LC-MS data to facilitate the identification of individual metabolites in metabolomics mixtures. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 1301-1309	4.4	14
25	Fast automated protein NMR data collection and assignment by ADAPT-NMR on Bruker spectrometers. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 236, 83-8	3	12
24	Structure and Function of the PriC DNA Replication Restart Protein. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 18384-96	5.4	11
23	Two-dimensional concurrent HMQC-COSY as an approach for small molecule chemical shift assignment and compound identification. <i>Journal of Biomolecular NMR</i> , <b>2011</b> , 49, 291-6	3	11

22	Using multiple quantum coherence to increase the <sup>15</sup> N resolution in a three-dimensional TROSY HNCQ experiment for accurate PRE and RDC measurements. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 200, 173-7	3	8
21	Investigation of enzymatic C-P bond formation using multiple quantum HCP nuclear magnetic resonance spectroscopy. <i>Magnetic Resonance in Chemistry</i> , <b>2015</b> , 53, 267-72	2.1	7
20	Simultaneous quantification of endogenous and exogenous plasma glucose by isotope dilution LC-MS/MS with indirect MRM of the derivative tag. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 2011-2018	4.4	6
19	A sodium channel inhibitor ISTX-I with a novel structure provides a new hint at the evolutionary link between two toxin folds. <i>Scientific Reports</i> , <b>2016</b> , 6, 29691	4.9	6
18	Interference between transverse cross-correlated relaxation and longitudinal relaxation affects apparent J-coupling and transverse cross-correlated relaxation. <i>Chemical Physics Letters</i> , <b>2006</b> , 423, 123-125	2.5	4
17	<sup>13</sup> C-detected HN(CA)C and HMCPC experiments using a single methyl-reprotonated sample for unambiguous methyl resonance assignment. <i>Journal of Biomolecular NMR</i> , <b>2006</b> , 36, 259-66	3	4
16	Structural basis of the mechanism of methyl epimerization by enzyme MarH. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 9605-9614	3.9	4
15	Unveiling the Disaccharide-Branched Glycosaminoglycan and Anticoagulant Potential of Its Derivatives. <i>Biomacromolecules</i> , <b>2021</b> , 22, 1244-1255	6.9	4
14	Backbone and side-chain chemical shift assignments of the kringle domain of human receptor tyrosine kinase-like orphan receptor 1 (ROR1). <i>Biomolecular NMR Assignments</i> , <b>2018</b> , 12, 145-148	0.7	3
13	Site-specific peak intensity ratio (SPIR) from 1D H/H NMR spectra for rapid distinction between natural and synthetic nicotine and detection of possible adulteration. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 6427-6434	4.4	3
12	Quantification of multiple compounds containing heterogeneous elements in the mixture by one-dimensional nuclear magnetic resonance spectroscopy of different nuclei using a single universal concentration reference. <i>Magnetic Resonance in Chemistry</i> , <b>2014</b> , 52, 779-82	2.1	2
11	NPid: an Automatic Approach to Rapid Identification of Known Natural Products in the Crude Extract of Crabapple Based on 2D H-C Heteronuclear Correlation Spectra of the Extract Mixture. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10996-11006	7.8	2
10	Myeloperoxidase and CYBA genetic variants in polycystic ovary syndrome. <i>European Journal of Clinical Investigation</i> , <b>2021</b> , 51, e13438	4.6	2
9	Oxidative stress promotes hyperandrogenism by reducing sex hormone-binding globulin in polycystic ovary syndrome. <i>Fertility and Sterility</i> , <b>2021</b> , 116, 1641-1650	4.8	2
8	An adapted isotope dilution H-C heteronuclear single-quantum correlation (ID-HSQC) for rapid and accurate quantification of endogenous and exogenous plasma glucose. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 6705-6711	4.4	1
7	Backbone and side-chain chemical shift assignments of MarH, a critical intermediary epimerase for biosynthesis of Maremycins in <i>Streptomyces</i> . <i>Biomolecular NMR Assignments</i> , <b>2018</b> , 12, 335-338	0.7	1
6	Simultaneous identification and quantification of amino acids in biofluids by reactive F-tags. <i>Chemical Communications</i> , <b>2021</b> , 57, 13154-13157	5.8	1
5	Solution structure, dynamics and function investigation of Kringle domain of human receptor tyrosine kinase-like orphan receptor 1. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 38, 2229-2239	3.6	1

4	Backbone and side-chain chemical shift assignments of a cellular FLICE-inhibitory protein (c-FLIP). <i>Biomolecular NMR Assignments</i> , <b>2020</b> , 14, 239-243	0.7	o
3	Comprehensive multi-component analysis for authentication and differentiation of 6 <i>Dendrobium</i> species by 2D NMR-based metabolomic profiling. <i>Microchemical Journal</i> , <b>2022</b> , 176, 107225	4.8	o
2	Identification of a Novel TAR RNA-Binding Protein 2 Modulator with Potential Therapeutic Activity against Hepatocellular Carcinoma. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 7404-7421	8.3	o
1	A Shape-orientated Algorithm employing an adapted Marr wavelet and shape matching index improves the performance of continuous wavelet transform for chromatographic peak detection and quantification.. <i>Journal of Chromatography A</i> , <b>2022</b> , 1673, 463086	4.5	