

# Hamid R Eghbalnia

## List of Publications by Citations

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36  
papers

1,543  
citations

17  
h-index

37  
g-index

37  
ext. papers

1,919  
ext. citations

5.4  
avg, IF

4.54  
L-index

#	Paper	IF	Citations
36	The future of NMR-based metabolomics. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 43, 34-40	11.4	500
35	Probabilistic interaction network of evidence algorithm and its application to complete labeling of peak lists from protein NMR spectroscopy. <i>PLoS Computational Biology</i> , <b>2009</b> , 5, e1000307	5	162
34	NMRbox: A Resource for Biomolecular NMR Computation. <i>Biophysical Journal</i> , <b>2017</b> , 112, 1529-1534	2.9	157
33	Protein energetic conformational analysis from NMR chemical shifts (PECAN) and its use in determining secondary structural elements. <i>Journal of Biomolecular NMR</i> , <b>2005</b> , 32, 71-81	3	97
32	High-resolution iterative frequency identification for NMR as a general strategy for multidimensional data collection. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12528-36	16.4	96
31	Linear analysis of carbon-13 chemical shift differences and its application to the detection and correction of errors in referencing and spin system identifications. <i>Journal of Biomolecular NMR</i> , <b>2005</b> , 32, 13-22	3	62
30	Probabilistic Identification of Spin Systems and their Assignments including Coil-Helix Inference as Output (PISTACHIO). <i>Journal of Biomolecular NMR</i> , <b>2005</b> , 32, 219-33	3	52
29	NMRReDATA, a standard to report the NMR assignment and parameters of organic compounds. <i>Magnetic Resonance in Chemistry</i> , <b>2018</b> , 56, 703-715	2.1	43
28	Caloric Restriction Engages Hepatic RNA Processing Mechanisms in Rhesus Monkeys. <i>Cell Metabolism</i> , <b>2018</b> , 27, 677-688.e5	24.6	37
27	Metabolic Evidence of Diminished Lipid Oxidation in Women With Polycystic Ovary Syndrome. <i>Current Metabolomics</i> , <b>2014</b> , 2, 269-278	1	37
26	Integrative NMR for biomolecular research. <i>Journal of Biomolecular NMR</i> , <b>2016</b> , 64, 307-32	3	36
25	I-PINE web server: an integrative probabilistic NMR assignment system for proteins. <i>Journal of Biomolecular NMR</i> , <b>2019</b> , 73, 213-222	3	26
24	Unique identifiers for small molecules enable rigorous labeling of their atoms. <i>Scientific Data</i> , <b>2017</b> , 4, 170073	8.2	19
23	Spin System Modeling of Nuclear Magnetic Resonance Spectra for Applications in Metabolomics and Small Molecule Screening. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 12201-12208	7.8	19
22	NMRmix: A Tool for the Optimization of Compound Mixtures in 1D (1)H NMR Ligand Affinity Screens. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 1360-8	5.6	17
21	Increasing rigor in NMR-based metabolomics through validated and open source tools. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 43, 56-61	11.4	17
20	Inter-Individual Differences in RNA Levels in Human Peripheral Blood. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148260	3.7	17

19	NMR-STAR: comprehensive ontology for representing, archiving and exchanging data from nuclear magnetic resonance spectroscopic experiments. <i>Journal of Biomolecular NMR</i> , <b>2019</b> , 73, 5-9	3	17
18	Nearest-neighbor effects on backbone alpha and beta carbon chemical shifts in proteins. <i>Journal of Biomolecular NMR</i> , <b>2007</b> , 39, 247-57	3	16
17	Applications of Parametrized NMR Spin Systems of Small Molecules. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10646-10649	4.68	15
16	Robust, integrated computational control of NMR experiments to achieve optimal assignment by ADAPT-NMR. <i>PLoS ONE</i> , <b>2012</b> , 7, e33173	3.7	15
15	RNA-PAIRS: RNA probabilistic assignment of imino resonance shifts. <i>Journal of Biomolecular NMR</i> , <b>2012</b> , 52, 289-302	3	13
14	Probabilistic approach to determining unbiased random-coil carbon-13 chemical shift values from the protein chemical shift database. <i>Journal of Biomolecular NMR</i> , <b>2006</b> , 35, 155-65	3	13
13	HIFI-C: a robust and fast method for determining NMR couplings from adaptive 3D to 2D projections. <i>Journal of Biomolecular NMR</i> , <b>2007</b> , 38, 341-51	3	12
12	NMR-Based Identification of Metabolites in Polar and Non-Polar Extracts of Avian Liver. <i>Metabolites</i> , <b>2017</b> , 7,	5.6	9
11	Crosstalks between cytokines and Sonic Hedgehog in Helicobacter pylori infection: a mathematical model. <i>PLoS ONE</i> , <b>2014</b> , 9, e111338	3.7	9
10	Automated evaluation of consistency within the PubChem Compound database. <i>Scientific Data</i> , <b>2019</b> , 6, 190023	8.2	7
9	A probabilistic approach for automated discovery of perturbed genes using expression data from microarray or RNA-Seq. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 67, 29-40	7	6
8	NMRFAM-SDF: a protein structure determination framework. <i>Journal of Biomolecular NMR</i> , <b>2015</b> , 62, 481-95	3	4
7	Probabilistic identification of saccharide moieties in biomolecules and their protein complexes. <i>Scientific Data</i> , <b>2020</b> , 7, 210	8.2	4
6	Tools for Enhanced NMR-Based Metabolomics Analysis. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2037, 413-427	4.4	3
5	Coordinated analysis of exon and intron data reveals novel differential gene expression changes. <i>Scientific Reports</i> , <b>2020</b> , 10, 15669	4.9	3
4	Strategies for detecting and identifying biological signals amidst the variation commonly found in RNA sequencing data. <i>BMC Genomics</i> , <b>2021</b> , 22, 322	4.5	2
3	Fragment screening targeting Ebola virus nucleoprotein C-terminal domain identifies lead candidates. <i>Antiviral Research</i> , <b>2020</b> , 180, 104822	10.8	1
2	Approach to Improving the Quality of Open Data in the Universe of Small Molecules. <i>Lecture Notes in Business Information Processing</i> , <b>2019</b> , 519-530	0.6	

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