Hamid R Eghbalnia

List of Publications by Year in Descending Order

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	Strategies for detecting and identifying biological signals amidst the variation commonly found in RNA sequencing data. *BMC Genomics*, **2021**, 22, 322	4.5	2
35	Fragment screening targeting Ebola virus nucleoprotein C-terminal domain identifies lead candidates. *Antiviral Research*, **2020**, 180, 104822	10.8	1
34	Probabilistic identification of saccharide moieties in biomolecules and their protein complexes. *Scientific Data*, **2020**, 7, 210	8.2	4
33	Coordinated analysis of exon and intron data reveals novel differential gene expression changes. *Scientific Reports*, **2020**, 10, 15669	4.9	3
32	I-PINE web server: an integrative probabilistic NMR assignment system for proteins. *Journal of Biomolecular NMR*, **2019**, 73, 213-222	3	26
31	Automated evaluation of consistency within the PubChem Compound database. *Scientific Data*, **2019**, 6, 190023	8.2	7
30	Approach to Improving the Quality of Open Data in the Universe of Small Molecules. *Lecture Notes in Business Information Processing*, **2019**, 519-530	0.6	
29	Tools for Enhanced NMR-Based Metabolomics Analysis. *Methods in Molecular Biology*, **2019**, 2037, 413-427	1.4	3
28	NMR-STAR: comprehensive ontology for representing, archiving and exchanging data from nuclear magnetic resonance spectroscopic experiments. *Journal of Biomolecular NMR*, **2019**, 73, 5-9	3	17
27	Caloric Restriction Engages Hepatic RNA Processing Mechanisms in Rhesus Monkeys. *Cell Metabolism*, **2018**, 27, 677-688.e5	24.6	37
26	NMReDATA, a standard to report the NMR assignment and parameters of organic compounds. *Magnetic Resonance in Chemistry*, **2018**, 56, 703-715	2.1	43
25	Applications of Parametrized NMR Spin Systems of Small Molecules. *Analytical Chemistry*, **2018**, 90, 10646-10649	7.8	13
24	NMRbox: A Resource for Biomolecular NMR Computation. *Biophysical Journal*, **2017**, 112, 1529-1534	2.9	157
23	Unique identifiers for small molecules enable rigorous labeling of their atoms. *Scientific Data*, **2017**, 4, 170073	8.2	19
22	Spin System Modeling of Nuclear Magnetic Resonance Spectra for Applications in Metabolomics and Small Molecule Screening. *Analytical Chemistry*, **2017**, 89, 12201-12208	7.8	19
21	The future of NMR-based metabolomics. *Current Opinion in Biotechnology*, **2017**, 43, 34-40	11.4	500
20	Increasing rigor in NMR-based metabolomics through validated and open source tools. *Current Opinion in Biotechnology*, **2017**, 43, 56-61	11.4	17

#	Citation		
19	NMR-Based Identification of Metabolites in Polar and Non-Polar Extracts of Avian Liver. *Metabolites*, **2017**, 7,	5.6	9
18	NMRmix: A Tool for the Optimization of Compound Mixtures in 1D (1)H NMR Ligand Affinity Screens. *Journal of Proteome Research*, **2016**, 15, 1360-8	5.6	17
17	Inter-Individual Differences in RNA Levels in Human Peripheral Blood. *PLoS ONE*, **2016**, 11, e0148260	3.7	17
16	Integrative NMR for biomolecular research. *Journal of Biomolecular NMR*, **2016**, 64, 307-32	3	36
15	NMRFAM-SDF: a protein structure determination framework. *Journal of Biomolecular NMR*, **2015**, 62, 481-95	3	4
14	A probabilistic approach for automated discovery of perturbed genes using expression data from microarray or RNA-Seq. *Computers in Biology and Medicine*, **2015**, 67, 29-40	7	6
13	Metabolic Evidence of Diminished Lipid Oxidation in Women With Polycystic Ovary Syndrome. *Current Metabolomics*, **2014**, 2, 269-278	1	37
12	Crosstalks between cytokines and Sonic Hedgehog in Helicobacter pylori infection: a mathematical model. *PLoS ONE*, **2014**, 9, e111338	3.7	9
11	Robust, integrated computational control of NMR experiments to achieve optimal assignment by ADAPT-NMR. *PLoS ONE*, **2012**, 7, e33173	3.7	15
10	RNA-PAIRS: RNA probabilistic assignment of imino resonance shifts. *Journal of Biomolecular NMR*, **2012**, 52, 289-302	3	13
9	Feedbacks In Sonic Hedgehog Circuits With Cytokines In H. pylori Mediated Gastritis. *FASEB Journal*, **2012**, 26, 716.7	0.9	
8	Probabilistic interaction network of evidence algorithm and its application to complete labeling of peak lists from protein NMR spectroscopy. *PLoS Computational Biology*, **2009**, 5, e1000307	5	162
7	HIFI-C: a robust and fast method for determining NMR couplings from adaptive 3D to 2D projections. *Journal of Biomolecular NMR*, **2007**, 38, 341-51	3	12
6	Nearest-neighbor effects on backbone alpha and beta carbon chemical shifts in proteins. *Journal of Biomolecular NMR*, **2007**, 39, 247-57	3	16
5	Probabilistic approach to determining unbiased random-coil carbon-13 chemical shift values from the protein chemical shift database. *Journal of Biomolecular NMR*, **2006**, 35, 155-65	3	13
4	High-resolution iterative frequency identification for NMR as a general strategy for multidimensional data collection. *Journal of the American Chemical Society*, **2005**, 127, 12528-36	16.4	96
3	Linear analysis of carbon-13 chemical shift differences and its application to the detection and correction of errors in referencing and spin system identifications. *Journal of Biomolecular NMR*, **2005**, 32, 13-22	3	62
2	Protein energetic conformational analysis from NMR chemical shifts (PECAN) and its use in determining secondary structural elements. *Journal of Biomolecular NMR*, **2005**, 32, 71-81	3	97

1 Probabilistic Identification of Spin Systems and their Assignments including Coil-Helix Inference as Output (PISTACHIO). *Journal of Biomolecular NMR*, **2005**, 32, 219-33

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