Alex Gutteridge

List of Publications by Year
in descending order

22 papers	2,305 citations	430442 18 h-index	676716 22 g-index
25 all docs	25 docs citations	25 times ranked	3525 citing authors

#	Article	IF	Citations
1	Prediction of drug–target interaction networks from the integration of chemical and genomic spaces. Bioinformatics, 2008, 24, i232-i240.	1.8	864
2	Understanding nature's catalytic toolkit. Trends in Biochemical Sciences, 2005, 30, 622-629.	3.7	177
3	Using A Neural Network and Spatial Clustering to Predict the Location of Active Sites in Enzymes. Journal of Molecular Biology, 2003, 330, 719-734.	2.0	167
4	Pharmacological reversal of a pain phenotype in iPSC-derived sensory neurons and patients with inherited erythromelalgia. Science Translational Medicine, 2016, 8, 335ra56.	5.8	154
5	Conformational Changes Observed in Enzyme Crystal Structures upon Substrate Binding. Journal of Molecular Biology, 2005, 346, 21-28.	2.0	153
6	Characterizing Human Stem Cell–derived Sensory Neurons at the Single-cell Level Reveals Their Ion Channel Expression and Utility in Pain Research. Molecular Therapy, 2014, 22, 1530-1543.	3.7	127
7	Nutrient control of eukaryote cell growth: a systems biology study in yeast. BMC Biology, 2010, 8, 68.	1.7	89
8	Conformational change in substrate binding, catalysis and product release: an open and shut case?. FEBS Letters, 2004, 567, 67-73.	1.3	86
9	MIMOX: a web tool for phage display based epitope mapping. BMC Bioinformatics, 2006, 7, 451.	1.2	82
10	Directing Differentiation of Human Embryonic Stem Cells Toward Anterior Neural Ectoderm Using Small Molecules. Stem Cells, 2012, 30, 1875-1884.	1.4	61
11	Effective function annotation through catalytic residue conservation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12299-12304.	3.3	55
12	The genetic control of growth rate: a systems biology study in yeast. BMC Systems Biology, 2012, 6, 4.	3.0	49
13	Directing Differentiation of Pluripotent Stem Cells Toward Retinal Pigment Epithelium Lineage. Stem Cells Translational Medicine, 2017, 6, 490-501.	1.6	43
14	The DBCLS BioHackathon: standardization and interoperability for bioinformatics web services and workflows. Journal of Biomedical Semantics, 2010, 1, 8.	0.9	31
15	Benchmarking network propagation methods for disease gene identification. PLoS Computational Biology, 2019, 15, e1007276.	1.5	30
16	Functional Expression of Parasite Drug Targets and Their Human Orthologs in Yeast. PLoS Neglected Tropical Diseases, 2011, 5, e1320.	1.3	29
17	Interpreting transcriptional changes using causal graphs: new methods and their practical utility on public networks. BMC Bioinformatics, 2016, 17, 318.	1.2	28
18	Regulation of metabolic networks by small molecule metabolites. BMC Bioinformatics, 2007, 8, 88.	1.2	23

#	Article	IF	Citations
19	Molecular causes of transcriptional response: a Bayesian prior knowledge approach. Bioinformatics, 2013, 29, 3167-3173.	1.8	15
20	Targeting the cAMP and Transforming Growth Factor-Î² Pathway Increases Proliferation to Promote Re-Epithelialization of Human Stem Cell-Derived Retinal Pigment Epithelium. Stem Cells Translational Medicine, 2016, 5, 925-937.	1.6	14
21	Novel Pancreatic Endocrine Maturation Pathways Identified by Genomic Profiling and Causal Reasoning. PLoS ONE, 2013, 8, e56024.	1.1	14
22	Network and pathway expansion of genetic disease associations identifies successful drug targets. Scientific Reports, 2020, 10, 20970.	1.6	10