Andy Brass

List of Publications by Year
in descending order

53 papers	3,158 citations	126907 33 h-index	168389 53 g-index
58 all docs	58 docs citations	58 times ranked	3695 citing authors

#	ARTICLE	IF	CITATIONS
1	Coping with cold: An integrative, multitissue analysis of the transcriptome of a poikilothermic vertebrate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16970-16975.	7.1	410
2	A systematic approach to modeling, capturing, and disseminating proteomics experimental data. Nature Biotechnology, 2003, 21, 247-254.	17.5	246
3	Lattice deformations and plastic flow through bottlenecks in a two-dimensional model for flux pinning in type-II superconductors. Physical Review Letters, 1988, 60, 1676-1679.	7.8	183
4	From The Cover: Hypoxia-inducible myoglobin expression in nonmuscle tissues. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2977-2981.	7.1	152
5	Identification of Novel Genes in Intestinal Tissue That Are Regulated after Infection with an Intestinal Nematode Parasite. Infection and Immunity, 2005, 73, 4025-4033.	2.2	98
6	The Ov20 Protein of the Parasitic Nematode Onchocerca volvulus. Journal of Biological Chemistry, 1997, 272, 29442-29448.	3.4	95
7	Genetic and expression analysis of cattle identifies candidate genes in pathways responding to <i>Trypanosoma congolense</i> infection. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9304-9309.	7.1	92
8	Current-voltage characteristics in a two-dimensional model for flux flow in type-II superconductors. Physical Review B, 1988, 38, 9235-9237.	3.2	79
9	The fibrillar collagens, collagen VIII, collagen X and the C1q complement proteins share a similar domain in their C‐terminal non‐collagenous regions. FEBS Letters, 1992, 303, 126-128.	2.8	76
10	A statistical analysis of murine incisional and excisional acute wound models. Wound Repair and Regeneration, 2014, 22, 281-287.	3.0	73
11	Deducing polymeric structure from aqueous molecular dynamics simulations of oligosaccharides: predictions from simulations of hyaluronan tetrasaccharides compared with hydrodynamic and X-ray fibre diffraction data 1 1Edited by R. Huber. Journal of Molecular Biology, 1998, 284, 1425-1437.	4.2	72
12	Statistics and flux in two dimensions. Physical Review Letters, 1989, 63, 2291-2294.	7.8	71
13	Simulations of the onset of diffusion in a flux-line lattice in a random potential. Physical Review B, 1990, 41, 6394-6398.	3.2	71
14	Secondary and tertiary structures involving chondroitin and chondroitin sulphates in solution, investigated by rotary shadowing/electron microscopy and computer simulation. FEBS Journal, 1992, 209, 675-680.	0.2	71
15	Superconductive pairing of fermions and semions in two dimensions. Physical Review Letters, 1989, 63, 2295-2298.	7.8	67
16	On the threshold pinning force in type II superconducting films. Journal of Low Temperature Physics, 1989, 74, 293-318.	1.4	64
17	Dynamic exchange between stabilized conformations predicted for hyaluronan tetrasaccharides: Comparison of molecular dynamics simulations with available NMR data. Glycobiology, 1998, 8, 973-980.	2.5	63
18	Models of flux pinning in the quasistatic limit. Physical Review B, 1989, 39, 102-116.	3.2	62

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19	Molecular dynamics simulations of the two disaccharides of hyaluronan in aqueous solution. Glycobiology, 1997, 7, 597-604.	2.5	57
20	Isolation and characterisation of GTF2IRD2, a novel fusion gene and member of the TFII-I family of transcription factors, deleted in Williams–Beuren syndrome. European Journal of Human Genetics, 2004, 12, 551-560.	2.8	51
21	A systematic strategy for large-scale analysis of genotype–phenotype correlations: identification of candidate genes involved in African trypanosomiasis. Nucleic Acids Research, 2007, 35, 5625-5633.	14.5	51
22	Algorithm for computer simulations of flux-lattice melting in type-II superconductors. Physical Review B, 1989, 39, 9587-9590.	3.2	50
23	Analysis of the transcriptome of the protozoan Theileria parva using MPSS reveals that the majority of genes are transcriptionally active in the schizont stage. Nucleic Acids Research, 2005, 33, 5503-5511.	14.5	50
24	Pleiotropic effects of negative energy balance in the postpartum dairy cow on splenic gene expression: repercussions for innate and adaptive immunity. Physiological Genomics, 2009, 39, 28-37.	2.3	50
25	Quality of Methods Reporting in Animal Models of Colitis. Inflammatory Bowel Diseases, 2015, 21, 1.	1.9	49
26	Mechanisms Controlling Anaemia in Trypanosoma congolense Infected Mice. PLoS ONE, 2009, 4, e5170.	2.5	49
27	A cDNA encoding repeating units of the ABA-1 allergen of Ascaris. Molecular and Biochemical Parasitology, 1993, 57, 339-343.	1.1	46
28	Ultradian Cortisol Pulsatility Encodes a Distinct, Biologically Important Signal. PLoS ONE, 2011, 6, e15766.	2.5	44
29	Hybrid Monte Carlo: An efficient algorithm for condensed matter simulation. Journal of Computational Chemistry, 1994, 15, 838-846.	3.3	43
30	Differential gene expression in a rat model of depression based on persistent differences in exploratory activity. European Neuropsychopharmacology, 2010, 20, 288-300.	0.7	43
31	A Secondary Structure Model of the Integrin a Subunit N-Terminal Domain Based on Analysis of Multiple Alignments. Cell Adhesion and Communication, 1994, 2, 385-402.	1.7	42
32	The mechanical properties of simulated collagen fibrils. Journal of Biomechanics, 1997, 30, 549-554.	2.1	41
33	Comparison of TFII-I gene family members deleted in Williams-Beuren syndrome. Protein Science, 2009, 13, 2588-2599.	7.6	39
34	Apoptosis signals in atopy and asthma measured with cDNA arrays. Clinical and Experimental Immunology, 2001, 123, 181-187.	2.6	36
35	Metaphyseal Chondrodysplasia Type Schmid Mutations Are Predicted to Occur in Two Distinct Three-dimensional Clusters within Type X Collagen NC1 Domains That Retain the Ability to Trimerize. Journal of Biological Chemistry, 1999, 274, 3632-3641.	3.4	35
36	Gene expression profiling in a mouse model for African trypanosomiasis. Genes and Immunity, 2006, 7, 667-679.	4.1	35

#	Article	IF	Citations
37	GeVIR is a continuous gene-level metric that uses variant distribution patterns to prioritize disease candidate genes. Nature Genetics, 2020, 52, 35-39.	21.4	32
38	Gut eosinophils and their impact on the mucus–resident microbiota. Immunology, 2019, 158, 194-205.	4.4	29
39	Self-assembly of rodlike particles in two dimensions: A simple model for collagen fibrillogenesis. Physical Review E, 1994, 50, 2963-2966.	2.1	26
40	Recent developments in biological sequence databases. Current Opinion in Biotechnology, 1998, 9, 54-58.	6.6	24
41	Two and three dimensional FFTs on highly parallel computers. Parallel Computing, 1986, 3, 167-184.	2.1	23
42	Standard Annotation of Environmental OMICS Data: Application to the Transcriptomics Domain. OMICS A Journal of Integrative Biology, 2006, 10, 172-178.	2.0	21
43	Computer simulations of flux pinning and flux flow in two dimensions. Cryogenics, 1989, 29, 367-372.	1.7	19
44	Claudin 13, a Member of the Claudin Family Regulated in Mouse Stress Induced Erythropoiesis. PLoS ONE, 2010, 5, e12667.	2.5	18
45	A Blockchain-Based Dynamic Consent Architecture to Support Clinical Genomic Data Sharing (ConsentChain): Proof-of-Concept Study. JMIR Medical Informatics, 2021, 9, e27816.	2.6	18
46	PhosphaBase: An ontology-driven database resource for protein phosphatases. Proteins: Structure, Function and Bioinformatics, 2004, 58, 290-294.	2.6	17
47	Novel SNP Discovery in African Buffalo, Syncerus caffer, Using High-Throughput Sequencing. PLoS ONE, 2012, 7, e48792.	2.5	15
48	A Comprehensive Genetic Analysis of Candidate Genes Regulating Response to Trypanosoma congolense Infection in Mice. PLoS Neglected Tropical Diseases, 2010, 4, e880.	3.0	14
49	A study of parallel molecular dynamics algorithms for N-body simulations on a transputer system. Parallel Computing, 1990, 14, 211-222.	2.1	13
50	The Quality of Methods Reporting in Parasitology Experiments. PLoS ONE, 2014, 9, e101131.	2.5	12
51	A Cellular Automata Model for Helper T Cell Subset Polarization in Chronic and Acute Infection. Journal of Theoretical Biology, 1994, 166, 189-200.	1.7	11
52	Clinical Chemistry of Congenic Mice with Quantitative Trait Loci for Predicted Responses to <i>Trypanosoma congolense</i> Infection. Infection and Immunity, 2009, 77, 3948-3957.	2.2	7
53	Modeling Data Journeys to Inform the Digital Transformation of Kidney Transplant Services: Observational Study. Journal of Medical Internet Research, 2022, 24, e31825.	4.3	2