Jonathan Miller

List of Publications by Year
in descending order

41 papers	6,725 citations	361296 20 h-index	315616 38 g-index
45 all docs	45 docs citations	45 times ranked	8350 citing authors

#	Article	IF	Citations
1	Repetitive zinc-binding domains in the protein transcription factor IIIA from Xenopus oocytes.. EMBO Journal, 1985, 4, 1609-1614.	3.5	2,243
2	Insights into social insects from the genome of the honeybee Apis mellifera. Nature, 2006, 443, 931-949.	13.7	1,648
3	Repetitive zinc-binding domains in the protein transcription factor IIIA from Xenopus oocytes. EMBO Journal, 1985, 4, 1609-14.	3.5	870
4	Statistical mechanics of Euler equations in two dimensions. Physical Review Letters, 1990, 65, 2137-2140.	2.9	364
5	A small-molecule scaffold induces autophagy in primary neurons and protects against toxicity in a Huntington disease model. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16982-16987.	3.3	247
6	Statistical mechanics, Eulerâ€™s equation, and Jupiterâ€™s Red Spot. Physical Review A, 1992, 45, 2328-2359.	1.0	197
7	A noncoding RNA is a potential marker of cell fate during mammary gland development. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5781-5786.	3.3	169
8	Zero-temperature critical behavior of the infinite-range quantum Ising spin glass. Physical Review Letters, 1993, 70, 3147-3150.	2.9	127
9	Macroscopic equilibrium from microscopic irreversibility in a chaotic coupled-map lattice. Physical Review E, 1993, 48, 2528-2535.	0.8	104
10	Mouse let-7 miRNA populations exhibit RNA editing that is constrained in the 5'-seed/ cleavage/anchor regions and stabilize predicted mmu-let-7a:mRNA duplexes. Genome Research, 2008, 18, 1571-1581.	2.4	87
11	Computational and transcriptional evidence for microRNAs in the honey bee genome. Genome Biology, 2007, 8, R97.	13.9	82
12	Passive Scalars, Random Flux, and Chiral Phase Fluids. Physical Review Letters, 1996, 76, 1461-1464.	2.9	66
13	The designability of protein structures. Journal of Molecular Graphics and Modelling, 2001, 19, 157-167.	1.3	56
14	â€œGranularâ€•Convection in a Vibrated Fluid. Physical Review Letters, 1995, 74, 2216-2219.	2.9	53
15	Novel MicroRNA Candidates and miRNA-mRNA Pairs in Embryonic Stem (ES) Cells. PLoS ONE, 2008, 3, e2548.	1.1	48
16	Experimental evidence that thermal selection shapes mitochondrial genome evolution. Scientific Reports, 2018, 8, 9500.	1.6	47
17	Rhox homeobox gene cluster: recent duplication of three family members. Genesis, 2006, 44, 122-129.	0.8	39
18	Vesicle-Like Biomechanics Governs Important Aspects of Nuclear Geometry in Fission Yeast. PLoS ONE, 2007, 2, e948.	1.1	39

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19	Symmetry and designability for lattice protein models. Journal of Chemical Physics, 2000, 113, 8329-8336.	1.2	37
20	MicroRNA Target Detection and Analysis for Genes Related to Breast Cancer Using MDLcompress. Eurasip Journal on Bioinformatics and Systems Biology, 2007, 2007, 1-16.	1.4	22
21	Scale-invariant structure of strongly conserved sequence in genomic intersections and alignments. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13121-13125.	3.3	21
22	Algebraic Distribution of Segmental Duplication Lengths in Whole-Genome Sequence Self-Alignments. PLoS ONE, 2011, 6, e18464.	1.1	19
23	The Tyrosine Photophysics of a Primase-Derived Peptide Are Sensitive to the Peptide's Zinc-Bound State:â€‰ Proof That the Bacterial Primase Hypothetical Zinc Finger Sequence Binds Zinc. Biochemistry, 1997, 36, 544-553.	1.2	16
24	MicroRNA enrichment among short 'ultraconserved' sequences in insects. Nucleic Acids Research, 2006, 34, e65-e65.	6.5	15
25	Identifying proteins of high designability via surface-exposure patterns. Proteins: Structure, Function and Bioinformatics, 2002, 47, 295-304.	1.5	14
26	Theory of the Self-Organized Critical State in Nonequilibrium 4He. Journal of Low Temperature Physics, 2000, 119, 155-179.	0.6	13
27	A novel method for the purification of the Xenopus transcription factor IIIA. Nucleic Acids Research, 1989, 17, 9185-9192.	6.5	12
28	Scale-free duplication dynamics: A model for ultraduplication. Physical Review E, 2011, 84, 061919.	0.8	9
29	Humanâ€“chimpanzee alignment: Ortholog exponentials and paralog power laws. Computational Biology and Chemistry, 2014, 53, 59-70.	1.1	9
30	Epidemic dynamics in inhomogeneous populations and the role of superspreaders. Physical Review Research, 2021, 3, .	1.3	9
31	Trapped Second Sound Waves on a Nonequilibrium Superfluid-Normal Interface. Physical Review Letters, 1998, 80, 4923-4926.	2.9	8
32	EXHAUSTIVE COMPUTATION OF EXACT DUPLICATIONS VIA SUPER AND NON-NESTED LOCAL MAXIMAL REPEATS. Journal of Bioinformatics and Computational Biology, 2014, 12, 1350018.	0.3	6
33	Rebuilding a realistic corticostriatal â€œsocial networkâ€•from dissociated cells. Frontiers in Systems Neuroscience, 2015, 9, 63.	1.2	6
34	Squid adjust their body color according to substrate. Scientific Reports, 2022, 12, 5227.	1.6	6
35	Primary orthologs from local sequence context. BMC Bioinformatics, 2020, 21, 48.	1.2	5
36	Improving Keeping for Octopuses by Testing Different Escape-Proof Designs on Tanks for â€œBig Blue Octopusâ€•(Octopus cyanea). Applied Sciences (Switzerland), 2021, 11, 8547.	1.3	5

#	Article	IF	Citations
37	A minimal model for household-based testing and tracing in epidemics. Physical Biology, 2021, 18, 045002.	0.8	3
38	"Granular" Convection in a Vibrated Fluid. Physical Review Letters, 1995, 75, 4154-4154.	2.9	2
39	Algebraic length distribution of sequence duplications in whole genomes. , 2011, , .		1
40	Repetitive Zn2+-binding domains in the protein transcription factor IIIA from Xenopus oocytes. Biochemical Society Transactions, 1986, 14, 221-221.	1.6	0
41	Tunneling edges at strong disorder. Physical Review B, 1995, 52, R11634-R11637.	1.1	0