Gero Wedemann

List of Publications by Year
in descending order

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Version: 2024-02-01

30	1,116	643344	620720
papers	citations	15 h-index	26 g-index

31	31	31	1219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Differences in nanoscale organization of regulatory active and inactive human chromatin. Biophysical Journal, 2022, 121, 977-990.	0.2	6
2	The initial engraftment of tumor cells is critical for the future growth pattern: a mathematical study based on simulations and animal experiments. BMC Cancer, 2020, 20, 524.	1.1	9
3	Absence of convection in solid tumors caused by raised interstitial fluid pressure severely limits success of chemotherapyâ€"a numerical study in cancers. Mathematical Biosciences and Engineering, 2020, 17, 6128-6148.	1.0	2
4	Modeling Growth of Tumors and Their Spreading Behavior Using Mathematical Functions. Methods in Molecular Biology, 2019, 1878, 263-277.	0.4	4
5	Data formats for modelling the spatial structure of chromatin based on experimental positions of nucleosomes. AIMS Biophysics, 2019, 6, 83-98.	0.3	3
6	Scrum as a Method of Teaching Software Architecture. , 2018, , .		3
7	Radiotherapy and chemotherapy change vessel tree geometry and metastatic spread in a small cell lung cancer xenograft mouse tumor model. PLoS ONE, 2017, 12, e0187144.	1.1	8
8	Affinity, stoichiometry and cooperativity of heterochromatin protein 1â€‰(HP1) binding to nucleosomal arrays. Journal of Physics Condensed Matter, 2015, 27, 064110.	0.7	21
9	Simulation of metastatic progression using a computer model including chemotherapy and radiation therapy. Journal of Biomedical Informatics, 2015, 57, 74-87.	2.5	19
10	Computer Simulation of the Metastatic Progression and Treatment Intervention. SNE Simulation Notes Europe, 2015, 25, .	0.2	0
11	TNFÎ± signalling primes chromatin for NF-ÎºB binding and induces rapid and widespread nucleosome repositioning. Genome Biology, 2014, 15, 536.	3.8	45
12	Perforin-dependent direct cytotoxicity in natural killer cells induces considerable knockdown of spontaneous lung metastases and computer modelling-proven tumor cell dormancy in a HT29 human colon cancer xenograft mouse model. Molecular Cancer, 2014, 13, 244.	7.9	54
13	Changing Chromatin Fiber Conformation by Nucleosome Repositioning. Biophysical Journal, 2014, 107, 2141-2150.	0.2	39
14	Computer Simulation of the Metastatic Progression. Methods in Molecular Biology, 2014, 1070, 107-116.	0.4	4
15	Modeling nucleosome position distributions from experimental nucleosome positioning maps. Bioinformatics, 2013, 29, 2380-2386.	1.8	35
16	Probing the Elasticity of DNA on Short Length Scales by Modeling Supercoiling under Tension. Biophysical Journal, 2012, 103, 323-330.	0.2	38
17	Monte Carlo Simulations of Nucleosome Chains to Identify Factors that Control DNA Compaction and Access. RSC Biomolecular Sciences, 2012, , 198-235.	0.4	3
18	Are Metastases from Metastases Clinical Relevant? Computer Modelling of Cancer Spread in a Case of Hepatocellular Carcinoma. PLoS ONE, 2012, 7, e35689.	1.1	17

#	Article	IF	Citations
19	Dissecting DNA-Histone Interactions in the Nucleosome by Molecular Dynamics Simulations of DNA Unwrapping. Biophysical Journal, 2011, 101, 1999-2008.	0.2	89
20	Force spectroscopy of chromatin fibers: Extracting energetics and structural information from Monte Carlo simulations. Biopolymers, 2011, 95, 435-447.	1.2	35
21	Exploring the Conformational Space of Chromatin Fibers and Their Stability by Numerical Dynamic Phase Diagrams. Biophysical Journal, 2010, 98, 1028-1037.	0.2	41
22	DNAâ€“DNA Interactions in Tight Supercoils Are Described by a Small Effective Charge Density. Physical Review Letters, 2010, 105, 158101.	2.9	88
23	Modeling genomic data with type attributes, balancing stability and maintainability. BMC Bioinformatics, 2009, 10, 97.	1.2	6
24	The Effect of Internucleosomal Interaction on Folding of the Chromatin Fiber. Biophysical Journal, 2008, 95, 3677-3691.	0.2	75
25	Nucleosome Geometry and Internucleosomal Interactions Control the Chromatin Fiber Conformation. Biophysical Journal, 2008, 95, 3692-3705.	0.2	110
26	Computer Simulation of the 30-Nanometer Chromatin Fiber. Biophysical Journal, 2002, 82, 2847-2859.	0.2	161
27	The Genome as a Flexible Polymer Chain. , 2002, , 121-132.		0
28	Compartmentalization of Interphase Chromosomes Observed in Simulation and Experiment. Journal of Molecular Biology, 1999, 285, 1053-1065.	2.0	190
29	Kinetics of structural changes in superhelical DNA. Physical Review E, 1998, 58, 3537-3546.	0.8	11
30	Polymer Dynamics of DNA, Chromatin, and Chromosomes. , 1997, , 57-72.		0