Haluk Resat

List of Publications by Year
in descending order

38 papers	2,176 citations	304743 22 h-index	330143 37 g-index
38 all docs	38 docs citations	38 times ranked	2958 citing authors

#	Article	IF	Citations
1	STAT3 Knockdown Induces Tumor Formation by MDA-MB-231 Cells. Clinical Oncology and Research, 2018, 1, .	0.0	7
2	EGFR signaling pathways are wired differently in normal 184A1L5 human mammary epithelial and MDA-MB-231 breast cancer cells. Journal of Cell Communication and Signaling, 2017, 11, 341-356.	3.4	10
3	Quantitative investigation of MDA-MB-231 breast cancer cell motility: dependence on epidermal growth factor concentration and its gradient. Molecular BioSystems, 2017, 13, 2069-2082.	2.9	13
4	Constitutive activation of <scp>STAT</scp>3 in breast cancer cells: A review. International Journal of Cancer, 2016, 138, 2570-2578.	5.1	475
5	Integrated analysis reveals that STAT3 is central to the crosstalk between HER/ErbB receptor signaling pathways in human mammary epithelial cells. Molecular BioSystems, 2015, 11, 146-158.	2.9	14
6	Reconstruction of biofilm images: combining local and global structural parameters. Biofouling, 2014, 30, 1141-1154.	2.2	6
7	Flow Partitioning in Fully Saturated Soil Aggregates. Transport in Porous Media, 2014, 103, 295-314.	2.6	11
8	Model-Based Analysis of HER Activation in Cells Co-Expressing EGFR, HER2 and HER3. PLoS Computational Biology, 2013, 9, e1003201.	3.2	16
9	Integrated experimental and model-based analysis reveals the spatial aspects of EGFR activation dynamics. Molecular BioSystems, 2012, 8, 2868.	2.9	15
10	An Adaptive Coarse Graining Method for Signal Transduction in Three Dimensions. Fundamenta Informaticae, 2012, 118, 371-384.	0.4	0
11	Modeling Microbial Dynamics in Heterogeneous Environments: Growth on Soil Carbon Sources. Microbial Ecology, 2012, 63, 883-897.	2.8	66
12	Spatial Aspects in Biological System Simulations. Methods in Enzymology, 2011, 487, 485-511.	1.0	10
13	Rapid and sustained nuclearâ€“cytoplasmic ERK oscillations induced by epidermal growth factor. Molecular Systems Biology, 2009, 5, 332.	7.2	216
14	HER/ErbB receptor interactions and signaling patterns in human mammary epithelial cells. BMC Cell Biology, 2009, 10, 78.	3.0	34
15	Quantifying the effects of co-expressing EGFR and HER2 on HER activation and trafficking. Biochemical and Biophysical Research Communications, 2008, 371, 220-224.	2.1	20
16	Cell Surface Receptors for Signal Transduction and Ligand Transport: A Design Principles Study. PLoS Computational Biology, 2007, 3, e101.	3.2	75
17	Receptor downregulation and desensitization enhance the information processing ability of signalling receptors. BMC Systems Biology, 2007, 1, 48.	3.0	64
18	Modeling the Effects of HER/ErbB1-3 Coexpression on Receptor Dimerization and Biological Response. Biophysical Journal, 2006, 90, 3993-4009.	0.5	62

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19	Modeling signal transduction networks: A comparison of two stochastic kinetic simulation algorithms. Journal of Chemical Physics, 2005, 123, 114707.	3.0	12
20	Combining microarray and genomic data to predict DNA binding motifs. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.8	49
21	An Integrated Model of Epidermal Growth Factor Receptor Trafficking and Signal Transduction. Biophysical Journal, 2003, 85, 730-743.	0.5	159
22	Ion passage pathways and thermodynamics of the amphotericin B membrane channel. European Biophysics Journal, 2002, 31, 294-305.	2.2	22
23	Probability-Weighted Dynamic Monte Carlo Method for Reaction Kinetics Simulations. Journal of Physical Chemistry B, 2001, 105, 11026-11034.	2.6	55
24	Calculating the local solvent chemical potential in crystal hydrates. Physical Review E, 2000, 62, 7077-7081.	2.1	2
25	Correcting for solventâ€“solvent electrostatic cutoffs considerably improves the ion-pair potential of mean force. Journal of Chemical Physics, 1999, 110, 6887-6889.	3.0	10
26	Solvation studies of DMP323 and A76928 bound to HIV protease: Analysis of water sites using grand canonical Monte Carlo simulations. Protein Science, 1998, 7, 573-579.	7.6	17
27	Correcting for electrostatic cutoffs in free energy simulations: Toward consistency between simulations with different cutoffs. Journal of Chemical Physics, 1998, 108, 9617-9623.	3.0	23
28	Molecular Properties of Amphotericin B Membrane Channel: A Molecular Dynamics Simulation. Molecular Pharmacology, 1997, 52, 560-570.	2.3	118
29	Enzyme-Inhibitor Association Thermodynamics. Biophysical Journal, 1997, 72, 522-532.	0.5	37
30	Free energy simulations: Correcting for electrostatic cutoffs by use of the Poisson equation. Journal of Chemical Physics, 1996, 104, 7645-7651.	3.0	35
31	Extracting fluid structures from neutron diffraction data. Chemical Physics Letters, 1995, 236, 1-7.	2.6	3
32	A molecular theory of solvation dynamics. Journal of Chemical Physics, 1994, 100, 1477-1491.	3.0	165
33	Studies on free energy calculations. II. A theoretical approach to molecular solvation. Journal of Chemical Physics, 1994, 101, 6126-6140.	3.0	32
34	Grand Canonical Monte Carlo Simulation of Water Positions in Crystal Hydrates. Journal of the American Chemical Society, 1994, 116, 7451-7452.	13.7	50
35	Studies of the opticalâ€like high frequency dispersion mode in liquid water. Journal of Chemical Physics, 1993, 98, 7277-7280.	3.0	28
36	Studies on free energy calculations. I. Thermodynamic integration using a polynomial path. Journal of Chemical Physics, 1993, 99, 6052-6061.	3.0	91

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37	Static longitudinal dielectric function of model molecular fluids. Journal of Chemical Physics, 1992, 96, 3068-3084.	3.0	107
38	A dielectric theory of the opticalâ€like highâ€frequency mode in liquid water. Journal of Chemical Physics, 1992, 97, 2618-2625.	3.0	47