Subhadip Raychaudhuri

List of Publications by Year
in descending order

38 papers	1,480 citations	471509 17 h-index	377865 34 g-index
41 all docs	41 docs citations	41 times ranked	1697 citing authors

#	Article	IF	Citations
1	The Immunological Synapse Balances T Cell Receptor Signaling and Degradation. Science, 2003, 302, 1218-1222.	12.6	496
2	Directed Migration of Positively Selected Thymocytes Visualized in Real Time. PLoS Biology, 2005, 3, e160.	5.6	149
3	Neuroglobin protects nerve cells from apoptosis by inhibiting the intrinsic pathway of cell death. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 401-411.	4.9	137
4	Maximal Height Scaling of Kinetically Growing Surfaces. Physical Review Letters, 2001, 87, 136101.	7.8	78
5	Bcl-2 inhibits apoptosis by increasing the time-to-death and intrinsic cell-to-cell variations in the mitochondrial pathway of cell death. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 1223-1233.	4.9	77
6	A role for human neuroglobin in apoptosis. IUBMB Life, 2010, 62, 878-885.	3.4	50
7	Effective Membrane Model of the Immunological Synapse. Physical Review Letters, 2003, 91, 208101.	7.8	46
8	Monte Carlo Simulation of Cell Death Signaling Predicts Large Cell-to-Cell Stochastic Fluctuations through the Type 2 Pathway of Apoptosis. Biophysical Journal, 2008, 95, 3559-3562.	0.5	45
9	Mechanisms of B-Cell Synapse Formation Predicted by Monte Carlo Simulation. Biophysical Journal, 2007, 92, 4196-4208.	0.5	44
10	Leukocyte Function-associated Antigen 1-mediated Adhesion Stability Is Dynamically Regulated through Affinity and Valency during Bond Formation with Intercellular Adhesion Molecule-1. Journal of Biological Chemistry, 2005, 280, 28290-28298.	3.4	41
11	Excitonic Funneling in Extended Dendrimers with Nonlinear and Random Potentials. Physical Review Letters, 2000, 85, 282-285.	7.8	37
12	Monte Carlo Study of Single Molecule Diffusion Can Elucidate the Mechanism of B Cell Synapse Formation. Biophysical Journal, 2008, 95, 1118-1125.	0.5	27
13	Discrimination of membrane antigen affinity by B cells requires dominance of kinetic proofreading over serial engagement. Cellular and Molecular Immunology, 2012, 9, 62-74.	10.5	26
14	Scaling Behavior of Cyclical Surface Growth. Physical Review Letters, 2000, 84, 3029-3032.	7.8	25
15	Movies, measurement, and modeling. Journal of Experimental Medicine, 2005, 201, 501-504.	8.5	23
16	A Minimal Model of Signaling Network Elucidates Cell-to-Cell Stochastic Variability in Apoptosis. PLoS ONE, 2010, 5, e11930.	2.5	22
17	Timing is everything: stochastic origins of cell-to-cell variability in cancer cell death. Frontiers in Bioscience - Landmark, 2011, 16, 307.	3.0	17
18	Modeling of B cell Synapse Formation by Monte Carlo Simulation Shows That Directed Transport of Receptor Molecules Is a Potential Formation Mechanism. Cellular and Molecular Bioengineering, 2010, 3, 256-268.	2.1	15

#	Article	IF	Citations
19	Disorder and funneling effects on exciton migration in treelike dendrimers. Physical Review E, 2002, 65, 021803.	2.1	14
20	Analysis of pattern formation and phase separation in the immunological synapse. Journal of Chemical Physics, 2002, 117, 9491-9501.	3.0	14
21	The Network of Receptors Characterize B Cell Receptor Micro- and Macroclustering in a Monte Carlo Model. Journal of Physical Chemistry B, 2010, 114, 487-494.	2.6	12
22	Nonlinear regulation of commitment to apoptosis by simultaneous inhibition of Bcl-2 and XIAP in leukemia and lymphoma cells. Apoptosis: an International Journal on Programmed Cell Death, 2011, 16, 619-626.	4.9	12
23	Monte Carlo study of B-cell receptor clustering mediated by antigen crosslinking and directed transport. Cellular and Molecular Immunology, 2011, 8, 255-264.	10.5	12
24	Formation of BCR oligomers provides a mechanism for B cell affinity discrimination. Journal of Theoretical Biology, 2012, 307, 174-182.	1.7	10
25	How can we kill cancer cells: Insights from the computational models of apoptosis. World Journal of Clinical Oncology, 2010, 1, 24.	2.3	8
26	Low Probability Activation of Bax/Bak Can Induce Selective Killing of Cancer Cells by Generating Heterogeneity in Apoptosis. Journal of Healthcare Engineering, 2013, 4, 47-66.	1.9	6
27	Exciton annihilation on dendrimeric trees. Journal of Luminescence, 2005, 111, 343-347.	3.1	5
28	Monte Carlo Investigation of Diffusion of Receptors and Ligands that Bind Across Opposing Surfaces. Annals of Biomedical Engineering, 2011, 39, 427-442.	2.5	5
29	Death ligand concentration and the membrane proximal signaling module regulate the type 1/type 2 choice in apoptotic death signaling. Systems and Synthetic Biology, 2014, 8, 83-97.	1.0	5
30	Roughness scaling in cyclical surface growth. Physical Review E, 2001, 64, 051604.	2.1	4
31	The Problem of Antigen Affinity Discrimination in B-Cell Immunology. , 2013, 2013, 1-18.		4
32	Monte Carlo Study Elucidates the Type 1/Type 2 Choice in Apoptotic Death Signaling in Healthy and Cancer Cells. Cells, 2013, 2, 361-392.	4.1	3
33	Computational Modeling of Receptor-Ligand Binding and Cellular Signaling Processes. , 2009, , 1-21.		2
34	Kinetic Monte Carlo Simulation in Biophysics and Systems Biology. , 2013, , .		2
35	In Silico Approach to Find an Optimal Strategy in Selective Targeting of Cancer Cells. Journal of Computer Science and Systems Biology, 2016, 9, .	0.0	1
36	Kinetic Monte Carlo Study of the Type 1/Type 2 Choice in Apoptosis Elucidates Selective Killing of Cancer Cells under Death Ligand Induction. Open Journal of Apoptosis, 2015, 04, 22-39.	1.5	1

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37	Scaling behaviour of randomly alternating surface growth processes. Journal of Physics A, 2002, 35, 10705-10720.	1.6	0
38	The Effect of Lipid Mediated Attraction and Antigen Affinity on B-Cell Receptor Microcluster Formation. Biophysical Journal, 2012, 102, 172a.	0.5	0