

Ziya Kalay

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

910
citations

1162889

8
h-index

1058333

14
g-index

21
all docs

21
docs citations

21
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Organizing Principles of the Plasma Membrane that Regulate Signal Transduction: Commemorating the Fortieth Anniversary of Singer and Nicolson's Fluid-Mosaic Model. Annual Review of Cell and Developmental Biology, 2012, 28, 215-250.	4.0	394
2	Confined diffusion of transmembrane proteins and lipids induced by the same actin meshwork lining the plasma membrane. Molecular Biology of the Cell, 2016, 27, 1101-1119.	0.9	165
3	Porous Coordination Polymer Hybrid Device with Quartz Oscillator: Effect of Crystal Size on Sorption Kinetics. Journal of the American Chemical Society, 2011, 133, 11932-11935.	6.6	98
4	Ultrafast Diffusion of a Fluorescent Cholesterol Analog in Compartmentalized Plasma Membranes. Traffic, 2014, 15, 583-612.	1.3	77
5	Archipelago architecture of the focal adhesion: Membrane molecules freely enter and exit from the focal adhesion zone. Cytoskeleton, 2012, 69, 380-392.	1.0	50
6	Confining Domains Lead to Reaction Bursts: Reaction Kinetics in the Plasma Membrane. PLoS ONE, 2012, 7, e32948.	1.1	48
7	Impact of Molecular Clustering inside Nanopores on Desorption Processes. Journal of the American Chemical Society, 2013, 135, 4608-4611.	6.6	28
8	Lateral diffusion in a discrete fluid membrane with immobile particles. Physical Review E, 2014, 89, 022724.	0.8	20
9	Reaction kinetics in the plasma membrane. Biotechnology Journal, 2012, 7, 745-752.	1.8	6
10	Observing the rotational diffusion of nanodiamonds with arbitrary nitrogen vacancy center configurations. Physical Review B, 2013, 88, .	1.1	6
11	Fundamental and functional aspects of mesoscopic architectures with examples in physics, cell biology, and chemistry. Critical Reviews in Biochemistry and Molecular Biology, 2011, 46, 310-326.	2.3	5
12	Effects of confinement on the statistics of encounter times: exact analytical results for random walks in a partitioned lattice. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 215001.	0.7	4
13	Kinetics of self-assembly via facilitated diffusion: Formation of the transcription complex. Physical Review E, 2015, 92, 042716.	0.8	2
14	Exact Green's functions for a Brownian particle reversibly binding to a fixed target in a finite, two-dimensional, circular domain. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 235001.	0.7	1
15	3A1458 Anomalous rapid diffusion of GPI-anchored proteins as detected by high-speed single fluorescent-molecule tracking(3A Biol & Arti memb 4: Transport, Signal transduction,The 49th) Tj ETQq1 1 0.784314 rgBT /Over	0.7	1
16	2K1512 Enhanced confinement of activated EGF receptor in the plasma membrane compartments revealed by ultra high-speed single-molecule tracking(Cell biology 2,The 48th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Over	0.7	1
17	Molecular Dynamics and Concentration in Raft and Boundary Domains in Actin-Depleted Plasma Membrane Vesicles as Revealed by Single-Molecule Imaging. Biophysical Journal, 2013, 104, 191a.	0.2	0
18	Distribution of population-averaged observables in stochastic gene expression. Physical Review E, 2014, 89, 012715.	0.8	0