

Sanjeevi Sivasankar

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,956
citations

361296

20
h-index

360920

35
g-index

43
all docs

43
docs citations

43
times ranked

2480
citing authors

#	ARTICLE	IF	CITATIONS
1	Ideal, catch, and slip bonds in cadherin adhesion. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18815-18820.	3.3	236
2	Resolving cadherin interactions and binding cooperativity at the single-molecule level. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 109-114.	3.3	183
3	Direct molecular force measurements of multiple adhesive interactions between cadherin ectodomains. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11820-11824.	3.3	160
4	Direct Measurements of Multiple Adhesive Alignments and Unbinding Trajectories between Cadherin Extracellular Domains. Biophysical Journal, 2001, 80, 1758-1768.	0.2	134
5	Strain-Dependent Photoluminescence Behavior of CdSe/CdS Nanocrystals with Spherical, Linear, and Branched Topologies. Nano Letters, 2009, 9, 3544-3549.	4.5	124
6	Resolving the molecular mechanism of cadherin catch bond formation. Nature Communications, 2014, 5, 3941.	5.8	111
7	Characterizing the Initial Encounter Complex in Cadherin Adhesion. Structure, 2009, 17, 1075-1081.	1.6	91
8	Direct molecular level measurements of the electrostatic properties of a protein surface. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12961-12966.	3.3	89
9	Mechanism of homophilic cadherin adhesion. Current Opinion in Cell Biology, 2000, 12, 587-592.	2.6	76
10	Biomechanics of cell adhesion: how force regulates the lifetime of adhesive bonds at the single molecule level. Physical Chemistry Chemical Physics, 2014, 16, 2211.	1.3	69
11	Cadherin recognition and adhesion. Current Opinion in Cell Biology, 2012, 24, 620-627.	2.6	67
12	E-cadherin binds to desmoglein to facilitate desmosome assembly. ELife, 2018, 7, .	2.8	67
13	Forces controlling protein interactions: theory and experiment. Colloids and Surfaces B: Biointerfaces, 1999, 14, 83-97.	2.5	62
14	Spatially Indirect Emission in a Luminescent Nanocrystal Molecule. Nano Letters, 2011, 11, 2358-2362.	4.5	57
15	Different roles of cadherins in the assembly and structural integrity of the desmosome complex. Journal of Cell Science, 2014, 127, 2339-50.	1.2	56
16	An alternative framework for fluorescence correlation spectroscopy. Nature Communications, 2019, 10, 3662.	5.8	53
17	Copper-induced structural conversion templates prion protein oligomerization and neurotoxicity. Science Advances, 2016, 2, e1600014.	4.7	48
18	Biophysical basis of cadherin mediated cell-cell adhesion. Experimental Cell Research, 2017, 358, 10-13.	1.2	44

#	ARTICLE	IF	CITATIONS
19	Molecular determinants of cadherin ideal bond formation: Conformation-dependent unbinding on a multidimensional landscape. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5711-20.	3.3	32
20	Mapping transmembrane binding partners for E-cadherin ectodomains. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31157-31165.	3.3	31
21	Inside-out regulation of E-cadherin conformation and adhesion. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
22	Tuning the Kinetics of Cadherin Adhesion. Journal of Investigative Dermatology, 2013, 133, 2318-2323.	0.3	22
23	Optical Bonding Using Silica Nanoparticle Solâˆ“Gel Chemistry. Nano Letters, 2007, 7, 3031-3034.	4.5	21
24	Pitching Single-Focus Confocal Data Analysis One Photon at a Time with Bayesian Nonparametrics. Physical Review X, 2020, 10, .	2.8	21
25	Biophysics of Cadherin Adhesion. Sub-Cellular Biochemistry, 2012, 60, 63-88.	1.0	14
26	Fluorescence Axial Localization with Nanometer Accuracy and Precision. Nano Letters, 2012, 12, 3731-3735.	4.5	14
27	Flow triggered by instabilities at the contact line of a drop containing nanoparticles. Soft Matter, 2011, 7, 5116.	1.2	11
28	Method for high frequency tracking and sub-nm sample stabilization in single molecule fluorescence microscopy. Scientific Reports, 2018, 8, 13912.	1.6	9
29	Improving estimation of kinetic parameters in dynamic force spectroscopy using cluster analysis. Journal of Chemical Physics, 2018, 148, 123301.	1.2	7
30	Cross-linking of a charged polysaccharide using polyions as electrostatic staples. Soft Matter, 2011, 7, 2348.	1.2	5
31	Single-molecule studies of classical and desmosomal cadherin adhesion. Current Opinion in Biomedical Engineering, 2019, 12, 43-50.	1.8	4
32	Nanoparticle-Mediated Nonfluorescent Bonding of Microspheres to Atomic Force Microscope Cantilevers and Imaging Fluorescence from Bonded Cantilevers with Single Molecule Sensitivity. Nano Letters, 2009, 9, 2120-2124.	4.5	3
33	Minimizing open-loop piezoactuator nonlinearity artifacts in atomic force microscope measurements. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, 053201.	0.6	2
34	Cadherins can dimerize via asymmetric interactions. FEBS Letters, 2022, , .	1.3	2
35	Robust scan synchronized force-fluorescence imaging. Ultramicroscopy, 2021, 221, 113165.	0.8	1
36	Adaptive atomic force microscope. , 2020, , .		1