

Deborah Leckband

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29 papers	2,720 citations	18 h-index	52 g-index
136 ext. papers	2,945 ext. citations	8.7 avg, IF	5.22 L-index

#	Paper	IF	Citations
29	Intermolecular forces in biology. <i>Quarterly Reviews of Biophysics</i> , 2001 , 34, 105-267	7	530
28	Vinculin potentiates E-cadherin mechanosensing and is recruited to actin-anchored sites within adherens junctions in a myosin II-dependent manner. <i>Journal of Cell Biology</i> , 2010 , 189, 1107-15	7.3	478
27	Measuring the forces that control protein interactions. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2000 , 29, 1-26		377
26	Tissue organization by cadherin adhesion molecules: dynamic molecular and cellular mechanisms of morphogenetic regulation. <i>Physiological Reviews</i> , 2011 , 91, 691-731	47.9	286
25	Direct Measurement of Polyethylene Glycol Induced Depletion Attraction between Lipid Bilayers. <i>Langmuir</i> , 1996 , 12, 3003-3014	4	176
24	Mechanism and dynamics of cadherin adhesion. <i>Annual Review of Biomedical Engineering</i> , 2006 , 8, 259-87	12	161
23	Chain-length dependence of the protein and cell resistance of oligo(ethylene glycol)-terminated self-assembled monolayers on gold. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 56, 406-16		138
22	Lifetime measurements reveal kinetic differences between homophilic cadherin bonds. <i>Biophysical Journal</i> , 2006 , 90, 1385-95	2.9	71
21	Cadherin recognition and adhesion. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 620-7	9	61
20	Engineered protein a for the orientational control of immobilized proteins. <i>Bioconjugate Chemistry</i> , 2003 , 14, 974-8	6.3	57
19	The surface apparatus--a tool for probing molecular protein interactions. <i>Nature</i> , 1995 , 376, 617-8	50.4	55
18	Biophysical properties of cadherin bonds do not predict cell sorting. <i>Journal of Biological Chemistry</i> , 2008 , 283, 28454-63	5.4	53
17	Two stage cadherin kinetics require multiple extracellular domains but not the cytoplasmic region. <i>Journal of Biological Chemistry</i> , 2008 , 283, 1848-56	5.4	45
16	Cadherin-dependent mechanotransduction depends on ligand identity but not affinity. <i>Journal of Cell Science</i> , 2012 , 125, 4362-71	5.3	43
15	E-catenin phosphorylation promotes intercellular adhesion through a dual-kinase mechanism. <i>Journal of Cell Science</i> , 2015 , 128, 1150-65	5.3	35
14	Allosteric cross talk between cadherin extracellular domains. <i>Biophysical Journal</i> , 2010 , 99, 95-104	2.9	31
13	Beyond structure: mechanism and dynamics of intercellular adhesion. <i>Biochemical Society Transactions</i> , 2008 , 36, 213-20	5.1	20

12	Structure and dynamics of ion-induced domains in free and supported monolayers and bilayers. <i>Langmuir</i> , 1994 , 10, 303-315	4	18
11	Nanomechanics of adhesion proteins. <i>Current Opinion in Structural Biology</i> , 2004 , 14, 524-30	8.1	15
10	Epidermal growth factor receptor and integrins control force-dependent vinculin recruitment to E-cadherin junctions. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	13
9	Biophysics of cadherin adhesion. <i>Sub-Cellular Biochemistry</i> , 2012 , 60, 63-88	5.5	12
8	Salt bridges gate E-catenin activation at intercellular junctions. <i>Molecular Biology of the Cell</i> , 2018 , 29, 111-122	3.5	12
7	A Computational Model for Kinetic Studies of Cadherin Binding and Clustering. <i>Biophysical Journal</i> , 2016 , 111, 1507-1518	2.9	9
6	Novel recognition mechanisms in biological adhesion. <i>Current Opinion in Colloid and Interface Science</i> , 2001 , 6, 498-505	7.6	7
5	From Single Molecules to Living Cells: Nanomechanical Measurements of Cell Adhesion. <i>Cellular and Molecular Bioengineering</i> , 2008 , 1, 312-326	3.9	6
4	P120 catenin potentiates constitutive E-cadherin dimerization at the plasma membrane and regulates trans binding. <i>Current Biology</i> , 2021 , 31, 3017-3027.e7	6.3	6
3	MOLECULAR MECHANISMS OF CELL ADHESION: NEW PERSPECTIVES FROM SURFACE FORCE MEASUREMENTS 2004 , 80, 409-432		2
2	Mechanical disruption of E-cadherin complexes with epidermal growth factor receptor actuates growth factor-dependent signaling.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	2
1	Surface Force Apparatus Measurements of Molecular Forces in Biological Adhesion 2008 , 1-22		1