

# Deborah Leckband

## List of Publications by Year in descending order

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docs citations

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times ranked

4071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intermolecular forces in biology. Quarterly Reviews of Biophysics, 2001, 34, 105-267.	5.9	584
2	Vinculin potentiates E-cadherin mechanosensing and is recruited to actin-anchored sites within adherens junctions in a myosin II-dependent manner. Journal of Cell Biology, 2010, 189, 1107-1115.	5.3	569
3	Measuring the Forces that Control Protein Interactions. Annual Review of Biophysics and Biomolecular Structure, 2000, 29, 1-26.	18.4	410
4	Tissue Organization by Cadherin Adhesion Molecules: Dynamic Molecular and Cellular Mechanisms of Morphogenetic Regulation. Physiological Reviews, 2011, 91, 691-731.	29.2	349
5	Direct Measurement of Polyethylene Glycol Induced Depletion Attraction between Lipid Bilayers. Langmuir, 1996, 12, 3003-3014.	3.6	187
6	MECHANISM AND DYNAMICS OF CADHERIN ADHESION. Annual Review of Biomedical Engineering, 2006, 8, 259-287.	12.4	183
7	Chain-length dependence of the protein and cell resistance of oligo(ethylene glycol)-terminated self-assembled monolayers on gold. Journal of Biomedical Materials Research Part B, 2001, 56, 406-416.	3.1	146
8	Lifetime Measurements Reveal Kinetic Differences between Homophilic Cadherin Bonds. Biophysical Journal, 2006, 90, 1385-1395.	0.5	76
9	Cadherin recognition and adhesion. Current Opinion in Cell Biology, 2012, 24, 620-627.	5.6	67
10	The surface force apparatus – a tool for probing molecular protein interactions. Nature, 1995, 376, 617-618.	28.3	62
11	Engineered Protein A for the Orientational Control of Immobilized Proteins. Bioconjugate Chemistry, 2003, 14, 974-978.	3.8	59
12	Biophysical Properties of Cadherin Bonds Do Not Predict Cell Sorting. Journal of Biological Chemistry, 2008, 283, 28454-28463.	3.5	55
13	Two Stage Cadherin Kinetics Require Multiple Extracellular Domains but Not the Cytoplasmic Region. Journal of Biological Chemistry, 2008, 283, 1848-1856.	3.5	52
14	Cadherin-dependent mechanotransduction depends on ligand identity but not affinity. Journal of Cell Science, 2012, 125, 4362-71.	2.0	48
15	Î±-catenin phosphorylation promotes intercellular adhesion through a dual-kinase mechanism. Journal of Cell Science, 2015, 128, 1150-65.	2.0	43
16	Allosteric Cross Talk between Cadherin Extracellular Domains. Biophysical Journal, 2010, 99, 95-104.	0.5	36
17	Beyond structure: mechanism and dynamics of intercellular adhesion. Biochemical Society Transactions, 2008, 36, 213-220.	3.4	24
18	Mechanical disruption of E-cadherin complexes with epidermal growth factor receptor actuates growth factor-dependent signaling. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.3	23

#	ARTICLE	IF	CITATIONS
19	A Computational Model for Kinetic Studies of Cadherin Binding and Clustering. <i>Biophysical Journal</i> , 2016, 111, 1507-1518.	0.5	22
20	P120 catenin potentiates constitutive E-cadherin dimerization at the plasma membrane and regulates trans binding. <i>Current Biology</i> , 2021, 31, 3017-3027.e7.	4.0	22
21	Salt bridges gate $\beta$ -catenin activation at intercellular junctions. <i>Molecular Biology of the Cell</i> , 2018, 29, 111-122.	2.2	21
22	Structure and dynamics of ion-induced domains in free and supported monolayers and bilayers. <i>Langmuir</i> , 1994, 10, 303-315.	3.6	19
23	Epidermal growth factor receptor and integrins control force-dependent vinculin recruitment to E-cadherin junctions. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	19
24	Nanomechanics of adhesion proteins. <i>Current Opinion in Structural Biology</i> , 2004, 14, 524-530.	5.8	17
25	Biophysics of Cadherin Adhesion. <i>Sub-Cellular Biochemistry</i> , 2012, 60, 63-88.	2.5	14
26	Novel recognition mechanisms in biological adhesion. <i>Current Opinion in Colloid and Interface Science</i> , 2001, 6, 498-505.	7.6	7
27	From Single Molecules to Living Cells: Nanomechanical Measurements of Cell Adhesion. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 312-326.	2.0	6
28	MOLECULAR MECHANISMS OF CELL ADHESION: NEW PERSPECTIVES FROM SURFACE FORCE MEASUREMENTS. <i>Journal of Adhesion</i> , 2004, 80, 409-432.	3.1	2
29	Surface Force Apparatus Measurements of Molecular Forces in Biological Adhesion. , 2008, , 1-22.		2