

Jacob Israelachvili

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

6,449
citations

304368

22
h-index

642321

23
g-index

28
all docs

28
docs citations

28
times ranked

6460
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of hydration and water structure in biological and colloidal interactions. <i>Nature</i> , 1996, 379, 219-225.	13.7	1,250
2	The hydrophobic interaction is long range, decaying exponentially with distance. <i>Nature</i> , 1982, 300, 341-342.	13.7	1,045
3	Recent progress in understanding hydrophobic interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15739-15746.	3.3	818
4	Direct measurements of forces between phosphatidylcholine and phosphatidylethanolamine bilayers in aqueous electrolyte solutions. <i>Biochemistry</i> , 1985, 24, 4608-4618.	1.2	645
5	Intermolecular forces in biology. <i>Quarterly Reviews of Biophysics</i> , 2001, 34, 105-267.	2.4	584
6	Interactions of Silica Surfaces. <i>Journal of Colloid and Interface Science</i> , 1994, 165, 367-385.	5.0	538
7	Developing a General Interaction Potential for Hydrophobic and Hydrophilic Interactions. <i>Langmuir</i> , 2015, 31, 2051-2064.	1.6	188
8	Direct Measurement of Polyethylene Glycol Induced Depletion Attraction between Lipid Bilayers. <i>Langmuir</i> , 1996, 12, 3003-3014.	1.6	187
9	Molecular mechanisms and kinetics during the self-assembly of surfactant layers. <i>Journal of Colloid and Interface Science</i> , 1992, 153, 244-265.	5.0	175
10	The search for the hydrophobic force law. <i>Faraday Discussions</i> , 2010, 146, 299.	1.6	154
11	Forces and ionic transport between mica surfaces: implications for pressure solution. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1289-1304.	1.6	137
12	Interaction forces and adhesion of supported myelin lipid bilayers modulated by myelin basic protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3154-3159.	3.3	135
13	Polymer-Cushioned Bilayers. II. An Investigation of Interaction Forces and Fusion Using the Surface Forces Apparatus. <i>Biophysical Journal</i> , 1999, 77, 1458-1468.	0.2	107
14	Synergistic interactions of lipids and myelin basic protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13466-13471.	3.3	79
15	Gecko adhesion pad: a smart surface?. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 464132.	0.7	72
16	Correlation of AFM and SFA Measurements Concerning the Stability of Supported Lipid Bilayers. <i>Biophysical Journal</i> , 2004, 86, 870-879.	0.2	68
17	Role of lipid interactions in autoimmune demyelination. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2004, 1688, 10-17.	1.8	56
18	Normal and Shear Forces between Mica and Model Membrane Surfaces with Adsorbed Hyaluronan. <i>Macromolecules</i> , 2003, 36, 9519-9526.	2.2	54

#	ARTICLE	IF	CITATIONS
19	Static Forces, Structure and Flow Properties of Complex Fluids in Highly Confined Geometries. <i>Annals of Biomedical Engineering</i> , 2005, 33, 39-51.	1.3	33
20	Confined fluids and their role in pressure solution. <i>Chemical Geology</i> , 2006, 230, 220-231.	1.4	33
21	[26] Direct methods for measuring conformational water forces (hydration forces) between membrane and other surfaces. <i>Methods in Enzymology</i> , 1986, 127, 353-360.	0.4	29
22	Molecular basis of protein function as determined by direct force measurements. <i>Enzyme and Microbial Technology</i> , 1993, 15, 450-459.	1.6	28
23	Physical Principles of Surfactant Self-Association Into Micelles, Bilayers, Vesicles and Microemulsion Droplets. , 1986, , 3-33.		12
24	Surface Forces and Nanorheology of Molecularly Thin Films. , 2007, , 859-924.		10
25	The Physico-Chemical Basis of Self-Assembling Structures. , 2004, , 1-28.		5
26	Nanometer-Scale Force Profiles of Short Single- and Double-Stranded DNA Molecules on a Gold Surface Measured Using a Surface Forces Apparatus. <i>Langmuir</i> , 2021, 37, 13346-13352.	1.6	4
27	Surface Forces and Microrheology of Molecularly Thin Liquid Films. , 1998, , .		3