Martin Michael MÃ¼ller

List of Publications by Year
in descending order

33 papers	1,564 citations	516710 16 h-index	414414 32 g-index
33 all docs	33 docs citations	33 times ranked	1684 citing authors

#	Article	IF	Citations
1	Aggregation and vesiculation of membrane proteins by curvature-mediated interactions. Nature, 2007, 447, 461-464.	27.8	690
2	Mechanical Properties of Pore-Spanning Lipid Bilayers Probed by Atomic Force Microscopy. Biophysical Journal, 2006, 91, 217-226.	0.5	116
3	Local Membrane Mechanics of Pore-Spanning Bilayers. Journal of the American Chemical Society, 2009, 131, 7031-7039.	13.7	90
4	Interface-mediated interactions between particles: A geometrical approach. Physical Review E, 2005, 72, 061407.	2.1	70
5	Conical Defects in Growing Sheets. Physical Review Letters, 2008, 101, 156104.	7.8	67
6	Geometry of surface-mediated interactions. Europhysics Letters, 2005, 69, 482-488.	2.0	54
7	Balancing torques in membrane-mediated interactions: Exact results and numerical illustrations. Physical Review E, 2007, 76, 011921.	2.1	54
8	Contact lines for fluid surface adhesion. Physical Review E, 2007, 76, 011605.	2.1	52
9	Myotubularin and PtdIns3P remodel the sarcoplasmic reticulum in muscle in vivo. Journal of Cell Science, 2013, 126, 1806-19.	2.0	51
10	How to determine local elastic properties of lipid bilayer membranes from atomic-force-microscope measurements: A theoretical analysis. Physical Review E, 2006, 74, 061914.	2.1	39
11	How paper folds: bending with local constraints. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 055203.	2.1	34
12	Self-Contact and Instabilities in the Anisotropic Growth of Elastic Membranes. Physical Review Letters, 2010, 105, 068101.	7.8	34
13	Elasticity Mapping of Poreâ€Suspending Native Cell Membranes. Small, 2009, 5, 832-838.	10.0	25
14	Morphogenesis of membrane invaginations in spherical confinement. Europhysics Letters, 2012, 97, 68008.	2.0	23
15	Cell Model Approach to Membrane Mediated Protein Interactions. Progress of Theoretical Physics Supplement, 2010, 184, 351-363.	0.1	20
16	Fluid membrane vesicles in confinement. New Journal of Physics, 2012, 14, 095021.	2.9	20
17	How bio-filaments twist membranes. Soft Matter, 2016, 12, 5747-5757.	2.7	19
18	Petal shapes of sympetalous flowers: the interplay between growth, geometry and elasticity. New Journal of Physics, 2012, 14, 085014.	2.9	16

#	Article	IF	Citations
19	Conical instabilities on paper. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 015203.	2.1	14
20	Dipoles in thin sheets. European Physical Journal E, 2013, 36, 106.	1.6	13
21	Interface-mediated interactions: Entropic forces of curved membranes. Physical Review E, 2011, 83, 051921.	2.1	7
22	Whirling skirts and rotating cones. New Journal of Physics, 2013, 15, 113055.	2.9	7
23	Toroidal membrane vesicles in spherical confinement. Physical Review E, 2015, 92, 032721.	2.1	7
24	Non-linear buckling and symmetry breaking of a soft elastic sheet sliding on a cylindrical substrate. International Journal of Non-Linear Mechanics, 2015, 75, 115-122.	2.6	6
25	Isometric bending requires local constraints on free edges. Mathematics and Mechanics of Solids, 2019, 24, 4051-4077.	2.4	6
26	Confotronic dynamics of tubular filaments. Soft Matter, 2014, 10, 2836.	2.7	5
27	Squeezed helical elastica. European Physical Journal E, 2016, 39, 114.	1.6	5
28	Vesicle dynamics in confined steady and harmonically modulated Poiseuille flows. Physical Review E, 2018, 98, .	2.1	5
29	Helical Superstructure of Intermediate Filaments. Physical Review Letters, 2019, 122, 098101.	7.8	5
30	Hamiltonian formulation of surfaces with constant Gaussian curvature. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 425204.	2.1	4
31	Crunching biofilament rings. Europhysics Letters, 2014, 107, 68002.	2.0	4
32	Flexoelectric fluid membrane vesicles in spherical confinement. Europhysics Letters, 2020, 131, 18001.	2.0	2
33	Confining a fluid membrane vesicle of toroidal topology in an adhesive hard sphere. IOP Conference Series: Materials Science and Engineering, 2017, 186, 012021.	0.6	0