Daniel Midtvedt

List of Publications by Year in Descending Order

15 papers	192 citations	9 h-index	13 g-index
18 ext. papers	275 ext. citations	9.4 avg, IF	3.41 L-index

#	Paper	IF	Citations
15	Quantitative digital microscopy with deep learning. *Applied Physics Reviews*, **2021**, 8, 011310	17.3	14
14	Fast and Accurate Nanoparticle Characterization Using Deep-Learning-Enhanced Off-Axis Holography. *ACS Nano*, **2021**, 15, 2240-2250	16.7	14
13	Diffusion of Lipid Nanovesicles Bound to a Lipid Membrane Is Associated with the Partial-Slip Boundary Condition. *Nano Letters*, **2021**, 21, 8503-8509	11.5	2
12	Extracting quantitative biological information from bright-field cell images using deep learning. *Biophysics Reviews*, **2021**, 2, 031401	2.6	4
11	Size and Refractive Index Determination of Subwavelength Particles and Air Bubbles by Holographic Nanoparticle Tracking Analysis. *Analytical Chemistry*, **2020**, 92, 1908-1915	7.8	16
10	Label-free spatio-temporal monitoring of cytosolic mass, osmolarity, and volume in living cells. *Nature Communications*, **2019**, 10, 340	17.4	14
9	Quantitative Detection of Biological Nanoparticles in Solution via Their Mediation of Colocalization of Fluorescent Liposomes. *Physical Review Applied*, **2019**, 12,	4.3	1
8	Membrane Deformation Induces Clustering of Norovirus Bound to Glycosphingolipids in a Supported Cell-Membrane Mimic. *Journal of Physical Chemistry Letters*, **2018**, 9, 2278-2284	6.4	9
7	The Matrix protein M1 from influenza C virus induces tubular membrane invaginations in an in vitro cell membrane model. *Scientific Reports*, **2017**, 7, 40801	4.9	13
6	Multi-scale approach for strain-engineering of phosphorene. *Journal of Physics Condensed Matter*, **2017**, 29, 185702	1.8	9
5	Strain-displacement relations for strain engineering in single-layer 2d materials. *2D Materials*, **2016**, 3, 011005	5.9	30
4	Valence-force model and nanomechanics of single-layer phosphorene. *Physical Chemistry Chemical Physics*, **2016**, 18, 23312-9	3.6	7
3	Nonlinear phononics using atomically thin membranes. *Nature Communications*, **2014**, 5, 4838	17.4	18
2	Fermi-Pasta-Ulam physics with nanomechanical graphene resonators: intrinsic relaxation and thermalization from flexural mode coupling. *Physical Review Letters*, **2014**, 112, 145503	7.4	29
1	Parametric resonance in nanoelectromechanical single electron transistors. *Nano Letters*, **2011**, 11, 1439-1442	11.5	9