

# Itay Barel

## List of Publications by Year in descending order

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18  
papers

638  
citations

840585

11  
h-index

887953

17  
g-index

18  
all docs

18  
docs citations

18  
times ranked

612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multibond Dynamics of Nanoscale Friction: The Role of Temperature. <i>Physical Review Letters</i> , 2010, 104, 066104.	2.9	136
2	Dynamics of Transition from Static to Kinetic Friction. <i>Physical Review Letters</i> , 2009, 103, 194301.	2.9	123
3	Probing static disorder in Arrhenius kinetics by single-molecule force spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11336-11340.	3.3	65
4	Slow Cracklike Dynamics at the Onset of Frictional Sliding. <i>Physical Review Letters</i> , 2011, 107, 235501.	2.9	56
5	Friction on a Microstructured Elastomer Surface. <i>Tribology Letters</i> , 2013, 50, 3-15.	1.2	53
6	Stabilizing Stick-Slip Friction. <i>Physical Review Letters</i> , 2011, 107, 024301.	2.9	46
7	Temperature Dependence of Friction at the Nanoscale: When the Unexpected Turns Normal. <i>Tribology Letters</i> , 2010, 39, 311-319.	1.2	43
8	Slip Sequences in Laboratory Experiments Resulting from Inhomogeneous Shear as Analogs of Earthquakes Associated with a Fault Edge. <i>Pure and Applied Geophysics</i> , 2011, 168, 2151-2166.	0.8	27
9	Lipid diffusion in the distal and proximal leaflets of supported lipid bilayer membranes studied by single particle tracking. <i>Journal of Chemical Physics</i> , 2018, 148, 123333.	1.2	26
10	Formation and rupture of capillary bridges in atomic scale friction. <i>Journal of Chemical Physics</i> , 2012, 137, 164706.	1.2	23
11	Probing and tuning frictional aging at the nanoscale. <i>Scientific Reports</i> , 2013, 3, 1896.	1.6	16
12	Extracting enzyme processivity from kinetic assays. <i>Journal of Chemical Physics</i> , 2015, 143, 224115.	1.2	6
13	On the generality of Michaelian kinetics. <i>Journal of Chemical Physics</i> , 2017, 146, 014101.	1.2	6
14	Specificity versus Processivity in the Sequential Modification of DNA: A Study of DNA Adenine Methyltransferase. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1112-1120.	1.2	5
15	Friction through reversible jumps of surface atoms. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 315005.	0.7	3
16	Effect of Capillary Condensation on Nanoscale Friction. <i>Nanoscience and Technology</i> , 2015, , 313-330.	1.5	3
17	Integrated rate laws for processive and distributive enzymatic turnover. <i>Journal of Chemical Physics</i> , 2019, 150, 244120.	1.2	1
18	Extracting Enzyme Processivity from Kinetic Assays. <i>Biophysical Journal</i> , 2016, 110, 241a.	0.2	0