

David Martinez-Martin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

20
papers

1,498
citations

15
h-index

24
g-index

24
ext. papers

1,777
ext. citations

14.6
avg, IF

4.5
L-index

#	Paper	IF	Citations
20	Improving the Sensitivity of SPR Sensors with AuAg alloys and 2D Materials by Simulation-Based Approach. <i>Advanced Theory and Simulations</i> , 2021 , 4, 2100292	3.5	1
19	Rheology of rounded mammalian cells over continuous high-frequencies. <i>Nature Communications</i> , 2021 , 12, 2922	17.4	4
18	Research priorities for COVID-19 sensor technology. <i>Nature Biotechnology</i> , 2021 , 39, 144-147	44.5	16
17	pyIMD: Automated analysis of inertial mass measurements of single cells. <i>SoftwareX</i> , 2019 , 10, 100303	2.7	0
16	Virus stamping for targeted single-cell infection in vitro and in vivo. <i>Nature Biotechnology</i> , 2018 , 36, 81-88	44.5	31
15	Imaging modes of atomic force microscopy for application in molecular and cell biology. <i>Nature Nanotechnology</i> , 2017 , 12, 295-307	28.7	494
14	Inertial picobalance reveals fast mass fluctuations in mammalian cells. <i>Nature</i> , 2017 , 550, 500-505	50.4	62
13	Nanomechanical mapping of first binding steps of a virus to animal cells. <i>Nature Nanotechnology</i> , 2017 , 12, 177-183	28.7	127
12	Improving the lateral resolution of quartz tuning fork-based sensors in liquid by integrating commercial AFM tips into the fiber end. <i>Sensors</i> , 2015 , 15, 1601-10	3.8	7
11	Mechanical control of mitotic progression in single animal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11258-63	11.5	53
10	Multiparametric high-resolution imaging of native proteins by force-distance curve-based AFM. <i>Nature Protocols</i> , 2014 , 9, 1113-30	18.8	83
9	Multiparametric imaging of biological systems by force-distance curve-based AFM. <i>Nature Methods</i> , 2013 , 10, 847-54	21.6	317
8	Atmospheric contaminants on graphitic surfaces. <i>Carbon</i> , 2013 , 61, 33-39	10.4	61
7	High-resolution dynamic atomic force microscopy in liquids with different feedback architectures. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 153-63	3	11
6	Drive-amplitude-modulation atomic force microscopy: From vacuum to liquids. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 336-44	3	23
5	Resolving structure and mechanical properties at the nanoscale of viruses with frequency modulation atomic force microscopy. <i>PLoS ONE</i> , 2012 , 7, e30204	3.7	30
4	Noninvasive protein structural flexibility mapping by bimodal dynamic force microscopy. <i>Physical Review Letters</i> , 2011 , 106, 198101	7.4	110

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| 3 | Higher-order eigenmodes of qPlus sensors for high resolution dynamic atomic force microscopy. <i>Journal of Applied Physics</i> , 2010 , 107, 104508 | 2.5 | 22 |
| 2 | Upper bound for the magnetic force gradient in graphite. <i>Physical Review Letters</i> , 2010 , 105, 257203 | 7.4 | 27 |
| 1 | Initial stages of the contact between a metallic tip and carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 102, 106801 | 7.4 | 17 |