

# Hender Lopez

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

637  
citations

516561

16  
h-index

580701

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

902  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coarse-grained model of adsorption of blood plasma proteins onto nanoparticles. <i>Journal of Chemical Physics</i> , 2015, 143, 243138.	1.2	63
2	Gradient Dynamics Description for Films of Mixtures and Suspensions: Dewetting Triggered by Coupled Film Height and Concentration Fluctuations. <i>Physical Review Letters</i> , 2013, 111, 117801.	2.9	51
3	A shock-capturing SPH scheme based on adaptive kernel estimation. <i>Journal of Computational Physics</i> , 2006, 212, 124-149.	1.9	46
4	Nestmate recognition signals of the leaf-cutting ant <i>Atta laevigata</i> . <i>Journal of Insect Physiology</i> , 2002, 48, 287-295.	0.9	41
5	Adaptive kernel estimation and SPH tensile instability. <i>Computers and Mathematics With Applications</i> , 2008, 55, 23-50.	1.4	35
6	Classification and biological identity of complex nano shapes. <i>Communications Materials</i> , 2020, 1, .	2.9	34
7	Time-dependent boundary conditions with lead-sample Coulomb correlations: Application to classical and quantum nanoscale electron device simulators. <i>Physical Review B</i> , 2010, 82, .	1.1	32
8	Protein Short-Time Diffusion in a Naturally Crowded Environment. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1709-1715.	2.1	30
9	Oscillation of viscous drops with smoothed particle hydrodynamics. <i>Physical Review E</i> , 2006, 73, 051201.	0.8	29
10	Continuous and Discontinuous Dynamic Unbinding Transitions in Drawn Film Flow. <i>Physical Review Letters</i> , 2014, 112, 137803.	2.9	27
11	Label-free in-flow detection of receptor recognition motifs on the biomolecular corona of nanoparticles. <i>Nanoscale</i> , 2018, 10, 5474-5481.	2.8	27
12	A multiscale model of protein adsorption on a nanoparticle surface. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 084003.	0.8	26
13	An adaptive SPH method for strong shocks. <i>Journal of Computational Physics</i> , 2009, 228, 5888-5907.	1.9	24
14	Entangled trajectory dynamics in the Husimi representation. <i>Journal of Chemical Physics</i> , 2006, 125, 154111.	1.2	23
15	Leaf-cutter ant species (Hymenoptera: <i>Atta</i> ) differ in the types of cues used to differentiate between self and others. <i>Animal Behaviour</i> , 2006, 71, 945-952.	0.8	21
16	Contact inhibition of locomotion and mechanical cross-talk between cell-cell and cell-substrate adhesion determine the pattern of junctional tension in epithelial cell aggregates. <i>Molecular Biology of the Cell</i> , 2016, 27, 3436-3448.	0.9	21
17	A Nanoscale Shape-Discovery Framework Supporting Systematic Investigations of Shape-Dependent Biological Effects and Immunomodulation. <i>ACS Nano</i> , 2022, 16, 1547-1559.	7.3	16
18	Multiscale Modelling of Bionano Interface. <i>Advances in Experimental Medicine and Biology</i> , 2017, 947, 173-206.	0.8	14

#	ARTICLE	IF	CITATIONS
19	In depth characterisation of the biomolecular coronas of polymer coated inorganic nanoparticles with differential centrifugal sedimentation. <i>Scientific Reports</i> , 2021, 11, 6443.	1.6	14
20	Boundary conditions with Pauli exclusion and charge neutrality: application to the Monte Carlo simulation of ballistic nanoscale devices. <i>Journal of Computational Electronics</i> , 2008, 7, 213-216.	1.3	13
21	A microfluidic approach for synthesis and kinetic profiling of branched gold nanostructures. <i>Nanoscale Horizons</i> , 2022, 7, 288-298.	4.1	12
22	Low-Resolution Models for the Interaction Dynamics of Coated Gold Nanoparticles with $\gamma$ 2-microglobulin. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3866.	1.8	10
23	Impact of dynamic sub-populations within grafted chains on the protein binding and colloidal stability of PEGylated nanoparticles. <i>Nanoscale</i> , 2021, 13, 5344-5355.	2.8	8
24	Using single nanoparticle tracking obtained by nanophotonic force microscopy to simultaneously characterize nanoparticle size distribution and nanoparticleâ€œsurface interactions. <i>Nanoscale</i> , 2017, 9, 4524-4535.	2.8	7
25	Role of contact inhibition of locomotion and junctional mechanics in epithelial collective responses to injury. <i>Physical Biology</i> , 2018, 15, 024001.	0.8	6
26	Smaller are noisier: Signal-to-noise ratio and bit-error degradation in bulk-, quantum well- and quantum wire-nanoscale FETs. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	4
27	Spin-dependent injection model for Monte Carlo device simulation. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	2
28	Eigenstate fitting in the $k \cdot p$ method. <i>Journal of Computational Electronics</i> , 2007, 6, 195-198.	1.3	1
29	High-frequency behavior of the Dattaâ€œDas spin transistor. <i>Applied Physics Letters</i> , 2008, 93, 193502.	1.5	0