

# Alberto Hernando

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,334  
citations

361296

20  
h-index

360920

35  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1926  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spread of a SARS-CoV-2 variant through Europe in the summer of 2020. Nature, 2021, 595, 707-712.	13.7	363
2	Density functional theory of doped superfluid liquid helium and nanodroplets. International Reviews in Physical Chemistry, 2017, 36, 621-707.	0.9	79
3	Unraveling the Absorption Spectra of Alkali Metal Atoms Attached to Helium Nanodroplets. Journal of Physical Chemistry A, 2007, 111, 12684-12694.	1.1	75
4	Critical Landau Velocity in Helium Nanodroplets. Physical Review Letters, 2013, 111, 153002.	2.9	66
5	The Structure and Energetics of $^3\text{He}$ and $^4\text{He}$ Nanodroplets Doped with Alkaline Earth Atoms. Journal of Physical Chemistry A, 2007, 111, 7303-7308.	1.1	54
6	Density functional theory of the structure of magnesium-doped helium nanodroplets. Physical Review B, 2008, 78, .	1.1	49
7	Desorption of alkali atoms from $^4\text{He}$ nanodroplets. Physical Chemistry Chemical Physics, 2012, 14, 3996.	1.3	48
8	Translational dynamics of photoexcited atoms in $^4\text{He}$ nanodroplets: the case of silver. Physical Chemistry Chemical Physics, 2013, 15, 18388.	1.3	42
9	Absorption spectrum of Ca atoms attached to $^4\text{He}$ nanodroplets. Physical Review B, 2008, 77, .	1.1	35
10	Picosecond solvation dynamics of alkali cations in superfluid $^4\text{He}$ nanodroplets. Physical Review B, 2014, 90, .	1.1	33
11	Unravelling the size distribution of social groups with information theory in complex networks. European Physical Journal B, 2010, 76, 87-97.	0.6	31
12	Communication: Nucleation of quantized vortex rings in $^4\text{He}$ nanodroplets. Journal of Chemical Physics, 2014, 140, 131101.	1.2	29
13	Calcium atoms attached to mixed helium droplets: A probe for the $^4\text{He}$ surface. Physical Review B, 2008, 77, .	1.1	28
14	The workings of the maximum entropy principle in collective human behaviour. Journal of the Royal Society Interface, 2013, 10, 20120758.	1.5	28
15	Absorption Spectrum of Na Atoms Attached to Helium Nanodroplets. Journal of Low Temperature Physics, 2010, 158, 105-111.	0.6	27
16	Desorption Dynamics of Heavy Alkali Metal Atoms (Rb, Cs) Off the Surface of Helium Nanodroplets. Journal of Physical Chemistry A, 2014, 118, 6604-6614.	1.1	27
17	Explosion of electron bubbles attached to quantized vortices in liquid $^4\text{He}$ . Journal of Chemical Physics, 2007, 126, 244502.	1.2	25
18	Capture of heliophobic atoms by $^4\text{He}$ nanodroplets: the case of cesium. Physical Chemistry Chemical Physics, 2014, 16, 23206-23213.	1.3	24

#	ARTICLE	IF	CITATIONS
19	Zipf's law from a Fisher variational-principle. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 374, 18-21.	0.9	21
20	Absorption spectrum of atomic impurities in isotopic mixtures of liquid helium. <i>Physical Review B</i> , 2011, 83, .	1.1	20
21	Helium on planar and nanostructured alkali-metal surfaces. <i>Physical Review B</i> , 2009, 79, .	1.1	18
22	Interplay between mobility, multi-seeding and lockdowns shapes COVID-19 local impact. <i>PLoS Computational Biology</i> , 2021, 17, e1009326.	1.5	17
23	Grand Canonical Monte Carlo study of argon adsorption in aluminium nanopores. <i>Molecular Physics</i> , 2011, 109, 2787-2796.	0.8	16
24	MaxEnt and dynamical information. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	16
25	Fisher information and the thermodynamics of scale-invariant systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 490-498.	1.2	15
26	Dynamics of photoexcited Ba <sup>+</sup> cations in 4He nanodroplets. <i>Journal of Chemical Physics</i> , 2016, 144, 094302.	1.2	15
27	Excitation of Sodium Atoms Attached to Helium Nanodroplets: The 3p $\rightarrow$ 3s Transition Revisited. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6033-6044.	1.1	12
28	Space-time correlations in urban sprawl. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130930.	1.5	11
29	Scale-invariance underlying the logistic equation and its social applications. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 176-180.	0.9	10
30	Thermodynamics of firms' growth. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150789.	1.5	10
31	Adsorption potentials for nonplanar geometries. <i>Physical Review B</i> , 2007, 76, .	1.1	9
32	Li atoms attached to helium nanodroplets. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 400-405.	1.0	9
33	Thermodynamics of urban population flows. <i>Physical Review E</i> , 2012, 86, 066105.	0.8	9
34	Variational principle underlying scale invariant social systems. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	8
35	Helium in polygonal nanopores at zero temperature: Density functional theory calculations. <i>Physical Review B</i> , 2008, 77, .	1.1	6
36	Fluorescence emission of Ca-atom from photodissociated Ca <sub>2</sub> in Ar doped helium droplets. II. Theoretical. <i>Journal of Chemical Physics</i> , 2012, 137, 184311.	1.2	6

#	ARTICLE	IF	CITATIONS
37	Infrared Absorption and Emission Spectrum of Electron Bubbles Attached to Linear Vortices in Liquid $^4\text{He}$ . Journal of Low Temperature Physics, 2010, 158, 397-403.	0.6	5
38	Fluorescence emission of Ca-atom from photodissociated $\text{Ca}_2$ in Ar-doped helium droplets. I. Experimental. Journal of Chemical Physics, 2012, 137, 184310.	1.2	5
39	Complex solvation of Mg atoms in $^4\text{He}$ nanodroplets. Journal of Physics: Conference Series, 2009, 150, 032003.	0.3	2
40	Communication: Angular momentum alignment and fluorescence polarization of alkali atoms photodetached from helium nanodroplets. Journal of Chemical Physics, 2013, 139, 221102.	1.2	2
41	HELIUM IN PORES AND IRREGULAR SURFACES. International Journal of Modern Physics B, 2008, 22, 4338-4345.	1.0	1
42	Imaginary-time nonuniform mesh method for solving the multidimensional Schrödinger equation: Fermionization and melting of quantum Lennard-Jones crystals. Physical Review A, 2013, 88, .	1.0	1
43	HELIUM ON NANOPATTERNED SURFACES AT FINITE TEMPERATURE. International Journal of Modern Physics B, 2010, 24, 4915-4922.	1.0	0
44	Zipf's law results from the scaling invariance of the Cramer-Rao inequality. Handbook of Statistics, 2021, 45, 179-183.	0.4	0
45	HELIUM IN PORES AND IRREGULAR SURFACES. , 2008, , .		0