

Alberto Hernando

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,334
citations

361045

20
h-index

360668

35
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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. <i>Nature</i> , 2021, 595, 707-712.	13.7	363
2	Zipf's law results from the scaling invariance of the Cramer-Rao inequality. <i>Handbook of Statistics</i> , 2021, 45, 179-183.	0.4	0
3	Interplay between mobility, multi-seeding and lockdowns shapes COVID-19 local impact. <i>PLoS Computational Biology</i> , 2021, 17, e1009326.	1.5	17
4	Density functional theory of doped superfluid liquid helium and nanodroplets. <i>International Reviews in Physical Chemistry</i> , 2017, 36, 621-707.	0.9	79
5	Dynamics of photoexcited Ba ⁺ cations in 4He nanodroplets. <i>Journal of Chemical Physics</i> , 2016, 144, 094302.	1.2	15
6	Thermodynamics of firms' growth. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150789.	1.5	10
7	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
8	Picosecond solvation dynamics of alkali cations in superfluid ^4He nanodroplets. <i>Physical Review B</i> , 2014, 90, .	1.1	33
9	Space-time correlations in urban sprawl. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130930.	1.5	11
10	Communication: Nucleation of quantized vortex rings in 4He nanodroplets. <i>Journal of Chemical Physics</i> , 2014, 140, 131101.	1.2	29
11	Capture of heliophobic atoms by ^4He nanodroplets: the case of cesium. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23206-23213.	1.3	24
12	Desorption Dynamics of Heavy Alkali Metal Atoms (Rb, Cs) Off the Surface of Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6604-6614.	1.1	27
13	Critical Landau Velocity in Helium Nanodroplets. <i>Physical Review Letters</i> , 2013, 111, 153002.	2.9	66
14	Translational dynamics of photoexcited atoms in 4He nanodroplets: the case of silver. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18388.	1.3	42
15	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
16	Communication: Angular momentum alignment and fluorescence polarization of alkali atoms photodetached from helium nanodroplets. <i>Journal of Chemical Physics</i> , 2013, 139, 221102.	1.2	2
17	The workings of the maximum entropy principle in collective human behaviour. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120758.	1.5	28
18	Imaginary-time nonuniform mesh method for solving the multidimensional Schrödinger equation: Fermionization and melting of quantum Lennard-Jones crystals. <i>Physical Review A</i> , 2013, 88, .	1.0	1

#	ARTICLE	IF	CITATIONS
19	Fluorescence emission of Ca-atom from photodissociated Ca ₂ in Ar doped helium droplets. II. Theoretical. Journal of Chemical Physics, 2012, 137, 184311.	1.2	6
20	Thermodynamics of urban population flows. Physical Review E, 2012, 86, 066105.	0.8	9
21	Fluorescence emission of Ca-atom from photodissociated Ca ₂ in Ar-doped helium droplets. I. Experimental. Journal of Chemical Physics, 2012, 137, 184310.	1.2	5
22	Desorption of alkali atoms from 4He nanodroplets. Physical Chemistry Chemical Physics, 2012, 14, 3996.	1.3	48
23	MaxEnt and dynamical information. European Physical Journal B, 2012, 85, 1.	0.6	16
24	Variational principle underlying scale invariant social systems. European Physical Journal B, 2012, 85, 1.	0.6	8
25	Grand Canonical Monte Carlo study of argon adsorption in aluminium nanopores. Molecular Physics, 2011, 109, 2787-2796.	0.8	16
26	Li atoms attached to helium nanodroplets. International Journal of Quantum Chemistry, 2011, 111, 400-405.	1.0	9
27	Absorption spectrum of atomic impurities in isotopic mixtures of liquid helium. Physical Review B, 2011, 83, .	1.1	20
28	Unravelling the size distribution of social groups with information theory in complex networks. European Physical Journal B, 2010, 76, 87-97.	0.6	31
29	Infrared Absorption and Emission Spectrum of Electron Bubbles Attached to Linear Vortices in Liquid 4He. Journal of Low Temperature Physics, 2010, 158, 397-403.	0.6	5
30	Fisher information and the thermodynamics of scale-invariant systems. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 490-498.	1.2	15
31	HELIUM ON NANOPATTERNED SURFACES AT FINITE TEMPERATURE. International Journal of Modern Physics B, 2010, 24, 4915-4922.	1.0	0
32	Absorption Spectrum of Na Atoms Attached to Helium Nanodroplets. Journal of Low Temperature Physics, 2010, 158, 105-111.	0.6	27
33	Helium on planar and nanostructured alkali-metal surfaces. Physical Review B, 2009, 79, .	1.1	18
34	Calcium atoms attached to mixed helium droplets: A probe for the H^3	1.1	28
35	Zipf's law from a Fisher variational-principle. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 374, 18-21.	0.9	21
36	Complex solvation of Mg atoms in $4He$ nanodroplets. Journal of Physics: Conference Series, 2009, 150, 032003.	0.3	2

#	ARTICLE	IF	CITATIONS
37	HELIUM IN PORES AND IRREGULAR SURFACES. International Journal of Modern Physics B, 2008, 22, 4338-4345.	1.0	1
38	Density functional theory of the structure of magnesium-doped helium nanodroplets. Physical Review B, 2008, 78, .	1.1	49
39	Helium in polygonal nanopores at zero temperature: Density functional theory calculations. Physical Review B, 2008, 77, .	1.1	6
40	Absorption spectrum of Ca atoms attached to ^4He nanodroplets. Physical Review B, 2008, 77, .	1.1	35
41	HELIUM IN PORES AND IRREGULAR SURFACES. , 2008, , .		0
42	Explosion of electron bubbles attached to quantized vortices in liquid He4. Journal of Chemical Physics, 2007, 126, 244502.	1.2	25
43	Adsorption potentials for nonplanar geometries. Physical Review B, 2007, 76, .	1.1	9
44	The Structure and Energetics of ^3He and ^4He Nanodroplets Doped with Alkaline Earth Atoms. Journal of Physical Chemistry A, 2007, 111, 7303-7308.	1.1	54
45	Unraveling the Absorption Spectra of Alkali Metal Atoms Attached to Helium Nanodroplets. Journal of Physical Chemistry A, 2007, 111, 12684-12694.	1.1	75