

Iván Cabria

List of Publications by Year in descending order

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64
papers

3,058
citations

270111

25
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175968

55
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all docs

64
docs citations

64
times ranked

4247
citing authors

#	ARTICLE	IF	CITATIONS
1	Grand Canonical Monte Carlo simulations of the hydrogen storage capacities of slit-shaped pores, nanotubes and torusenes. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 11916-11928.	3.8	7
2	Assessment of density functional approximations for N_2 and CO_2 physisorption on benzene and graphene. <i>Journal of Computational Chemistry</i> , 2022, 43, 1403-1419.	1.5	3
3	Comparison of theoretical methods of the hydrogen storage capacities of nanoporous carbons. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12192-12205.	3.8	9
4	Hydrogen storage capacity of Li-decorated borophene and pristine graphene slit pores: A combined ab initio and quantum-thermodynamic study. <i>Applied Surface Science</i> , 2021, 562, 150019.	3.1	15
5	Simulations of volumetric hydrogen storage capacities of nanoporous carbons: Effect of dispersion interactions as a function of pressure, temperature and pore width. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5697-5709.	3.8	10
6	Magnetostatic dipolar anisotropy energy and anisotropy constants in arrays of ferromagnetic nanowires as a function of their radius and interwall distance. <i>Journal of Physics Communications</i> , 2020, 4, 035015.	0.5	7
7	Magnetostatic dipolar energy of large periodic Ni fcc nanowires, slabs and spheres. <i>Applied Surface Science</i> , 2019, 490, 352-364.	3.1	1
8	DFT simulation of hydrogen storage on manganese phosphorous trisulphide (MnPS ₃). <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5903-5912.	3.8	11
9	Potential- K Means for Load Balancing and Cost Minimization in Mobile Recycling Network. <i>IEEE Systems Journal</i> , 2017, 11, 242-249.	2.9	10
10	Searching for DFT-based methods that include dispersion interactions to calculate the physisorption of H ₂ on benzene and graphene. <i>Journal of Chemical Physics</i> , 2017, 146, 214104.	1.2	30
11	MRI segmentation fusion for brain tumor detection. <i>Information Fusion</i> , 2017, 36, 1-9.	11.7	79
12	The Storage of Hydrogen in Nanoporous Carbons. <i>Journal of the Mexican Chemical Society</i> , 2017, 56, .	0.2	2
13	Computing force field-based directional maps in subquadratic time. <i>Knowledge-Based Systems</i> , 2016, 95, 58-70.	4.0	1
14	Interaction of hydrogen with palladium clusters deposited on graphene. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
15	Automated segmentation of brain tumors in MRI using potential field clustering. , 2015, , .		4
16	Automated Localization of Brain Tumors in MRI Using Potential-K-Means Clustering Algorithm. , 2015, , .		8
17	Competition between molecular and dissociative adsorption of hydrogen on palladium clusters deposited on defective graphene. <i>RSC Advances</i> , 2015, 5, 47945-47953.	1.7	45
18	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. <i>Nanoscale</i> , 2015, 7, 2374-2390.	2.8	95

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19	Palladium Clusters Anchored on Graphene Vacancies and Their Effect on the Reversible Adsorption of Hydrogen. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5081-5090.	1.5	73
20	Simulation of hydrogen storage in porous carbons. <i>Journal of Materials Research</i> , 2013, 28, 589-604.	1.2	31
21	Evolution of the atomic structure and the magnetism of small oxygen clusters. <i>Computational and Theoretical Chemistry</i> , 2013, 1021, 215-221.	1.1	3
22	Adsorption and dissociation of molecular hydrogen on the edges of graphene nanoribbons. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	15
23	A Mean Shift-Based Initialization Method for K-means. , 2012, , .		7
24	Density functional study of low-lying isomers of SiO ₄ , GeO ₄ and CO ₄ , and their relation to tetrahedral solid phases. <i>European Physical Journal D</i> , 2012, 66, 1.	0.6	0
25	Adsorption and Dissociation of Molecular Hydrogen on Palladium Clusters Supported on Graphene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21179-21189.	1.5	104
26	Simulated porosity and electronic structure of nanoporous carbons. <i>Journal of Chemical Physics</i> , 2011, 135, 104706.	1.2	37
27	Simulation of the hydrogen storage in nanoporous carbons with different pore shapes. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10748-10759.	3.8	65
28	Theoretical study of the transition from planar to three-dimensional structures of palladium clusters supported on graphene. <i>Physical Review B</i> , 2010, 81, .	1.1	122
29	Hydrogen and Hydrogen Clusters Across Disciplines. <i>Science and Technology of Atomic, Molecular, Condensed Matter and Biological Systems</i> , 2010, , 299-342.	0.6	0
30	Adsorption of Lithium on Finite Graphitic Clusters. <i>Journal of Physical Chemistry C</i> , 2009, 113, 939-941.	1.5	34
31	A Combined Experimental and Theoretical Investigation of Atomic-Scale Defects Produced on Graphite Surfaces by Dielectric Barrier Discharge Plasma Treatment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18719-18729.	1.5	12
32	Hydrogen storage capacities of nanoporous carbon calculated by density functional and MÅller-Plesset methods. <i>Physical Review B</i> , 2008, 78, .	1.1	49
33	Interaction of narrow carbon nanotubes with nitronium tetrafluoroborate salts. <i>Journal of Chemical Physics</i> , 2008, 128, 214703.	1.2	6
34	Shape of the hydrogen adsorption regions of MOF-5 and its impact on the hydrogen storage capacity. <i>Physical Review B</i> , 2008, 78, .	1.1	13
35	Hydrogen storage in pure and Li-doped carbon nanopores: Combined effects of concavity and doping. <i>Journal of Chemical Physics</i> , 2008, 128, 144704.	1.2	53
36	The optimum average nanopore size for hydrogen storage in carbon nanoporous materials. <i>Carbon</i> , 2007, 45, 2649-2658.	5.4	168

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37	Density functional calculations of hydrogen adsorption on boron nanotubes and boron sheets. <i>Nanotechnology</i> , 2006, 17, 778-785.	1.3	83
38	Magnetic properties of Co- and FePt-clusters. <i>Computational Materials Science</i> , 2006, 35, 279-282.	1.4	17
39	Density functional study of molecular hydrogen coverage on carbon nanotubes. <i>Computational Materials Science</i> , 2006, 35, 238-242.	1.4	54
40	Buckling in boron sheets and nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1105-1110.	0.8	22
41	Electrostrictive deformations in small carbon clusters, hydrocarbon molecules, and carbon nanotubes. <i>Physical Review A</i> , 2006, 74, .	1.0	5
42	Structural and thermal stability of narrow and short carbon nanotubes and nanostrips. <i>Carbon</i> , 2005, 43, 1371-1377.	5.4	38
43	Adsorption of hydrogen on normal and pentaheptite single wall carbon nanotubes. <i>European Physical Journal D</i> , 2005, 34, 279-282.	0.6	25
44	Electronic and magnetic properties of free and supported transition metal clusters. <i>Phase Transitions</i> , 2005, 78, 71-83.	0.6	3
45	Improvement of the Koradi parallel algorithm for molecular dynamics and application to the economic organization and optimization of recycling costs of waste electrical and electronic equipment. <i>Europhysics Letters</i> , 2005, 71, 845-851.	0.7	5
46	BeB ₂ nanostructures: A density functional study. <i>Physical Review B</i> , 2005, 72, .	1.1	6
47	Enhancement of hydrogen physisorption on graphene and carbon nanotubes by Li doping. <i>Journal of Chemical Physics</i> , 2005, 123, 204721.	1.2	247
48	Stability and electronic structure of phosphorus nanotubes. <i>Europhysics Letters</i> , 2004, 65, 82-88.	0.7	52
49	Giant Magnetic Anisotropy of Single Cobalt Atoms and Nanoparticles. <i>Science</i> , 2003, 300, 1130-1133.	6.0	967
50	Stability of narrow zigzag carbon nanotubes. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 51-56.	1.0	27
51	Metallic and semiconducting narrow carbon nanotubes. <i>Physical Review B</i> , 2003, 67, .	1.1	139
52	Largest Band Gap of All Single Walled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2003, 772, 531.	0.1	2
53	Orbital magnetism of transition-metal adatoms and clusters on the Ag and Au(001) surfaces. <i>Physical Review B</i> , 2002, 65, .	1.1	64
54	Electronic and Magnetic Properties of Ferromagnet-Semiconductor Heterostructure Systems. <i>Phase Transitions</i> , 2002, 75, 113-123.	0.6	5

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55	Magnetization profile and magnetocrystalline anisotropy of ferromagnet-semiconductor heterostructure systems. <i>Physical Review B</i> , 2001, 63, .	1.1	13
56	Strongly Enhanced Orbital Moments and Anisotropies of Adatoms on the Ag(001) Surface. <i>Physical Review Letters</i> , 2001, 86, 2146-2149.	2.9	97
57	Relativistic theory for the nuclear spin-lattice relaxation rate in ferromagnetic metals with application to 5d impurities in bcc Fe. <i>Physical Review B</i> , 2000, 62, 14287-14296.	1.1	4
58	Neutral atoms in ionic lattices: Stability and ground-state properties of KCl:Ag ⁰ . <i>Physical Review B</i> , 2000, 62, 13356-13365.	1.1	12
59	Microscopic origin of the magnetocrystalline anisotropy energy of ferromagnetic-semiconductor multilayers. <i>Europhysics Letters</i> , 2000, 51, 209-215.	0.7	9
60	Optical properties of Ti ²⁺ centres in alkali halides: Theoretical investigation. <i>Radiation Effects and Defects in Solids</i> , 1999, 151, 281-284.	0.4	0
61	Optical properties of hole centres in alkali halides: I. Investigation with optical detection of paramagnetic resonance. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 6473-6479.	0.7	12
62	Optical properties of hole centres in alkali halides: II. MS-X calculations. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 6481-6490.	0.7	13
63	Stability of Silver Atoms in Chlorides: An Insight into Optical and EPR Properties. <i>Materials Science Forum</i> , 1997, 239-241, 171-174.	0.3	1
64	Neutral atoms in ionic lattices: Study of KCl:Ag ⁰ . <i>International Journal of Quantum Chemistry</i> , 1997, 61, 627-634.	1.0	7