Olga Lopez-Acevedo

List of Publications by Year in descending order

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48 papers 5,578 citations

279487 23 h-index 197535 49 g-index

50 all docs

50 docs citations

50 times ranked

5904 citing authors

#	Article	IF	CITATIONS
1	A unified view of ligand-protected gold clusters as superatom complexes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9157-9162.	3.3	1,472
2	Electronic structure calculations with GPAW: a real-space implementation of the projector augmented-wave method. Journal of Physics Condensed Matter, 2010, 22, 253202.	0.7	1,451
3	Chirality and Electronic Structure of the Thiolate-Protected Au ₃₈ Nanocluster. Journal of the American Chemical Society, 2010, 132, 8210-8218.	6.6	401
4	Structure and Bonding in the Ubiquitous Icosahedral Metallic Gold Cluster Au ₁₄₄ (SR) ₆₀ . Journal of Physical Chemistry C, 2009, 113, 5035-5038.	1.5	393
5	Quantum size effects in ambient CO oxidation catalysed by ligand-protected gold clusters. Nature Chemistry, 2010, 2, 329-334.	6.6	295
6	Piezoelectric coefficients and spontaneous polarization of ScAlN. Journal of Physics Condensed Matter, 2015, 27, 245901.	0.7	209
7	Silver (I) as DNA glue: Ag+-mediated guanine pairing revealed by removing Watson-Crick constraints. Scientific Reports, 2015, 5, 10163.	1.6	127
8	Thiolate-Protected Au ₂₅ Superatoms as Building Blocks: Dimers and Crystals. Journal of Physical Chemistry C, 2010, 114, 15986-15994.	1.5	109
9	A density functional investigation of thiolate-protected bimetal PdAu24(SR)18z clusters: doping the superatom complex. Physical Chemistry Chemical Physics, 2009, 11, 7123.	1.3	100
10	Electronic and Vibrational Signatures of the Au ₁₀₂ (<i>p</i> -MBA) ₄₄ Cluster. Journal of the American Chemical Society, 2011, 133, 3752-3755.	6.6	80
11	Density functional theory based screening of ternary alkali-transition metal borohydrides: A computational material design project. Journal of Chemical Physics, 2009, 131, 014101.	1.2	77
12	Orbital-free density functional theory implementation with the projector augmented-wave method. Journal of Chemical Physics, 2014, 141, 234102.	1.2	74
13	Experimental and Density Functional Theory Analysis of Serial Introductions of Electron-Withdrawing Ligands into the Ligand Shell of a Thiolate-Protected Au ₂₅ Nanoparticle. Journal of Physical Chemistry C, 2010, 114, 8276-8281.	1.5	61
14	Theoretical Characterization of Cyclic Thiolated Copper, Silver, and Gold Clusters. Journal of Physical Chemistry C, 2010, 114, 13571-13576.	1.5	51
15	Oligomeric Goldâ^'Thiolate Units Define the Properties of the Molecular Junction between Gold and Benzene Dithiols. Journal of Physical Chemistry Letters, 2010, 1, 1528-1532.	2.1	43
16	The Role of Hydrogen Bonds in the Stabilization of Silver-Mediated Cytosine Tetramers. Journal of Physical Chemistry Letters, 2015, 6, 4061-4066.	2.1	43
17	Evidence of superatom electronic shells in ligand-stabilized aluminum clusters. Journal of Chemical Physics, 2011, 135, 094701.	1.2	42
18	The Al50Cp*12 Cluster - A 138-Electron Closed Shell (L = 6) Superatom. European Journal of Inorganic Chemistry, 2011, 2011, 2649-2652.	1.0	41

#	Article	IF	Citations
19	Atomic and electronic structure of tetrahedral amorphous carbon surfaces from density functional theory: Properties and simulation strategies. Carbon, 2014, 77, 1168-1182.	5.4	41
20	Electronic structure of gold, aluminum, and gallium superatom complexes. Physical Review B, 2011, 84,	1.1	39
21	Accurate schemes for calculation of thermodynamic properties of liquid mixtures from molecular dynamics simulations. Journal of Chemical Physics, 2016, 145, 244504.	1.2	38
22	Optical Spectra of the Special Au ₁₄₄ Gold-Cluster Compounds: Sensitivity to Structure and Symmetry. Journal of Physical Chemistry C, 2015, 119, 11250-11259.	1.5	37
23	Grid-Based Projector Augmented Wave (GPAW) Implementation of Quantum Mechanics/Molecular Mechanics (QM/MM) Electrostatic Embedding and Application to a Solvated Diplatinum Complex. Journal of Chemical Theory and Computation, 2017, 13, 6010-6022.	2.3	32
24	Silver-Mediated Double Helix: Structural Parameters for a Robust DNA Building Block. ACS Omega, 2017, 2, 7343-7348.	1.6	26
25	Structural morphology of carbon nanofibers grown on different substrates. Carbon, 2016, 98, 343-351.	5.4	25
26	Quantum walks on Cayley graphs. Journal of Physics A, 2006, 39, 585-599.	1.6	23
27	On the interaction between gold and silver metal atoms and DNA/RNA nucleobases – a comprehensive computational study of ground state properties. Nanotechnology Reviews, 2015, 4, 173-191.	2.6	23
28	Three-Dimensional Uracil Network with Sodium as a Linker. Journal of Physical Chemistry C, 2016, 120, 26342-26349.	1.5	18
29	Redox Potentials from Ab Initio Molecular Dynamics and Explicit Entropy Calculations: Application to Transition Metals in Aqueous Solution. Journal of Chemical Theory and Computation, 2017, 13, 3432-3441.	2.3	18
30	Characterization of Ironâ^'Carbonyl-Protected Gold Clusters. Journal of the American Chemical Society, 2009, 131, 12573-12575.	6.6	17
31	Optimizing a parametrized Thomas–Fermi–Dirac–WeizsÃ⊠ker density functional for atoms. Physical Chemistry Chemical Physics, 2015, 17, 31463-31471.	1.3	16
32	Real-time time-dependent density functional theory implementation of electronic circular dichroism applied to nanoscale metal–organic clusters. Journal of Chemical Physics, 2021, 154, 114102.	1.2	16
33	Silver-Stabilized Guanine Duplex: Structural and Optical Properties. Journal of Physical Chemistry Letters, 2018, 9, 4789-4794.	2.1	15
34	Derivatives of the thiolate-protected gold cluster Au25(SR)18 -1. European Physical Journal D, 2011, 63, 311-314.	0.6	13
35	Solvent driven formation of silver embedded resorcinarene nanorods. CrystEngComm, 2012, 14, 347-350.	1.3	13
36	Excitation-dependent fluorescence from atomic/molecular layer deposited sodium-uracil thin films. Scientific Reports, 2017, 7, 6982.	1.6	13

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37	Atomic structure and origin of chirality of DNA-stabilized silver clusters. Physical Review Materials, 2020, 4, .	0.9	13
38	Semilocal kinetic energy functionals with parameters from neutral atoms. Physical Review B, 2019, 100, \cdot	1.1	10
39	Energy band alignment and electronic states of amorphous carbon surfaces in vacuo and in aqueous environment. Journal of Applied Physics, 2015, 117, 034502.	1.1	9
40	Optical Properties of Silver-Mediated DNA from Molecular Dynamics and Time Dependent Density Functional Theory. International Journal of Molecular Sciences, 2018, 19, 2346.	1.8	7
41	First-Principles Study of Excited State Evolution in a Protected Gold Complex. Journal of Physical Chemistry C, 2013, 117, 11837-11842.	1.5	6
42	A Multiscale Code for Flexible Hybrid Simulations Using ASE Framework. Computing in Science and Engineering, 2014, 16, 54-62.	1.2	4
43	Self-consistent assessment of Englert-Schwinger model on atomic properties. Journal of Chemical Physics, 2017, 147, 234102.	1.2	4
44	<i>Ab initio</i> metadynamics determination of temperature-dependent free-energy landscape in ultrasmall silver clusters. Journal of Chemical Physics, 2022, 156, 154301.	1.2	4
45	Density and localized states' impact on amorphous carbon electron transport mechanisms. Journal of Applied Physics, 2016, 120, 214303.	1.1	3
46	Large-Z limit in atoms and solids from first principles. Journal of Chemical Physics, 2019, 151, 244101.	1.2	2
47	Conductance through atomic point contacts between fcc(100) electrodes of gold. European Physical Journal B, 2008, 66, 497-501.	0.6	1
48	Probing the Atomic-Scale Structure of Monolayer-Protected Au38 Clusters. Microscopy and Microanalysis, 2010, 16, 1652-1653.	0.2	0