

# Marcelo M Mariscal

## List of Publications by Citations

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68

papers

1,233

citations

21

h-index

32

g-index

69

ext. papers

1,358

ext. citations

4.9

avg, IF

4.23

L-index

#	Paper	IF	Citations
68	Ultrasmooth, highly spherical monocrystalline gold particles for precision plasmonics. <i>ACS Nano</i> , <b>2013</b> , 7, 11064-70	16.7	102
67	Real-time imaging of adatom-promoted graphene growth on nickel. <i>Science</i> , <b>2018</b> , 359, 1243-1246	33.3	95
66	Collision as a way of forming bimetallic nanoclusters of various structures and chemical compositions. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 184505	3.9	81
65	Thermal Properties of Co/Au Nanoalloys and Comparison of Different Computer Simulation Techniques. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17210-17218	3.8	47
64	Proton binding at clay surfaces in water. <i>Applied Clay Science</i> , <b>2003</b> , 24, 3-9	5.2	47
63	Analysis of electron beam damage of exfoliated MoS <sub>2</sub> sheets and quantitative HAADF-STEM imaging. <i>Ultramicroscopy</i> , <b>2014</b> , 146, 33-8	3.1	46
62	The Co-Au interface in bimetallic nanoparticles: a high resolution STEM study. <i>Nanoscale</i> , <b>2010</b> , 2, 2647-517	5.7	43
61	Trimetallic nanostructures: the case of AgPd-Pt multiply twinned nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 12456-63	5.6	40
60	On the atomic structure of thiol-protected gold nanoparticles: a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 11785-90	3.6	38
59	Generation of palladium clusters on Au(111) electrodes: Experiments and simulations. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2635-2637	3.4	37
58	Development of a semiempirical potential for simulations of thiol-gold interfaces. Application to thiol-protected gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 6500-6	3.6	30
57	Thermodynamic considerations and computer simulations on the formation of core-shell nanoparticles under electrochemical conditions. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 3561-8	3.6	28
56	On the generation of metal clusters with the electrochemical scanning tunneling microscope. <i>Surface Science</i> , <b>2005</b> , 597, 133-155	1.8	26
55	A synthesis route of gold nanoparticles without using a reducing agent. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 213115	3.4	24
54	Underpotential deposition on free nanoparticles: Its meaning and measurement. <i>Electrochemistry Communications</i> , <b>2012</b> , 16, 1-5	5.1	23
53	Monolayer protected gold nanoparticles: the effect of the headgroup-Au interaction. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 15979-87	3.6	22
52	Structure and composition of Au/Co magneto-plasmonic nanoparticles. <i>MRS Communications</i> , <b>2013</b> , 3, 177-183	2.7	22

51	Theoretical studies of preparation of core-shell nanoparticles by electrochemical metal deposition. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8244-8251	6.7	22
50	Effects of oxidation on the plasmonic properties of aluminum nanoclusters. <i>Nanoscale</i> , <b>2017</b> , 9, 17471-17480	7.4	21
49	Nanoalloying in real time. A high resolution STEM and computer simulation study. <i>Nanoscale</i> , <b>2011</b> , 3, 5013	7.7	21
48	The basis for the formation of stable metal clusters on an electrode surface. <i>Nanotechnology</i> , <b>2003</b> , 14, 1009-1013	3.4	21
47	Growth mechanism of nanoparticles: theoretical calculations and experimental results. <i>CrystEngComm</i> , <b>2012</b> , 14, 544-549	3.3	20
46	A new simulation model for electrochemical metal deposition. <i>Chemical Physics</i> , <b>2006</b> , 320, 149-154	2.3	20
45	A combined experimental and theoretical study of the generation of palladium clusters on Au(111) with a scanning tunnelling microscope. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 1287-1294	6.7	20
44	Graphene on nickel (100) micrograins: Modulating the interface interaction by extended moiré superstructures. <i>Carbon</i> , <b>2018</b> , 130, 441-447	10.4	19
43	Synthesis, characterization, and growth simulations of Cu-Pt bimetallic nanoclusters. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 1371-9	3	19
42	On the occurrence of stable and supersaturated metastable states in metallic core-shell nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 4580-9	3.6	16
41	Atomistic computer simulations on the generation of bimetallic nanoparticles. <i>Faraday Discussions</i> , <b>2008</b> , 138, 89-104; discussion 119-35, 433-4	3.6	16
40	Ultra-small rhenium clusters supported on graphene. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 7898-906	3.06	15
39	Configurational Behavior and Conductance of Alkanedithiol Molecular Wires from Accelerated Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 4539-45	6.4	15
38	On the selective decoration of facets in metallic nanoparticles. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 1777-1786	2.5	15
37	Properties of rotating nanoalloys formed by cluster collision: a computer simulation study. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 094701	3.9	14
36	Computer simulation of the effective double layer occurring on a catalyst surface under electro-chemical promotion conditions. <i>Journal of Applied Electrochemistry</i> , <b>2008</b> , 38, 1065-1073	2.6	14
35	Influence of Capping on the Atomistic Arrangement in Palladium Nanoparticles at Room Temperature. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 24641-24647	3.8	13
34	Thermodynamic stability of electrochemically decorated AuPd core@shell nanoparticles. <i>Electrochimica Acta</i> , <b>2012</b> , 76, 424-429	6.7	12

33	Gold-palladium core@shell nanoalloys: experiments and simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28060-7	3.6	12
32	Anchoring sites to the STM tip can explain multiple peaks in single molecule conductance histograms. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 1526-31	3.6	12
31	Gold clusters showing pentagonal atomic arrays revealed by aberration-corrected scanning transmission electron microscopy. <i>Chemical Communications</i> , <b>2010</b> , 46, 8758-60	5.8	12
30	On the structural and mechanical properties of Fe-filled carbon nanotubes: a computer simulation approach. <i>Nanotechnology</i> , <b>2009</b> , 20, 165705	3.4	12
29	The structure of electrodeposits in a computer simulation study. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 87, 385-389	2.6	12
28	Structure Determination of Superatom Metallic Clusters Using Rapid Scanning Electron Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 1902-1908	3.8	11
27	The van der Waals Interactions of n-Alkanethiol-Covered Surfaces: From Planar to Curved Surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 16526-16530	16.4	10
26	Effects of tip structure on the generation of metal clusters by an STM tip: a way to control the orientation of nanocrystallites?. <i>Nanotechnology</i> , <b>2005</b> , 16, 974-980	3.4	10
25	Stochastic model for spontaneous formation of molecular wires. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 2977-2982	2.7	9
24	The role of ad-atoms in the coalescence of alkanethiol-passivated gold nanoparticles. <i>Electrochimica Acta</i> , <b>2013</b> , 101, 301-307	6.7	8
23	Mechanical stability of zinc oxide nanowires under tensile loading: is wurtzite stable at the nanoscale?. <i>RSC Advances</i> , <b>2015</b> , 5, 43563-43570	3.7	7
22	Structural order in ultrathin films of the monolayer protected clusters based upon 4 nm gold nanocrystals: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18098-18104	3.6	7
21	The behavior of single-molecule junctions predicted by atomistic simulations. <i>Electrochimica Acta</i> , <b>2009</b> , 11, 987-989	5.1	4
20	Computer simulation of reversible electrochemical catalyst promoter dosing. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8673-8679	6.7	4
19	Computer simulation of electrochemical nanostructuring induced by supersaturation conditions. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 607, 10-16	4.1	4
18	Immobilization of Au nanoparticles on graphite tunnels through nanocapillarity. <i>RSC Advances</i> , <b>2016</b> , 6, 77195-77200	3.7	4
17	Atomic-level characterization and cilostazol affinity of poly(lactic acid) nanoparticles conjugated with differentially charged hydrophilic molecules. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 1328-1338	3.3	4
16	Structure stability of free copper nanoclusters: FSA-DFT Cu-building and FDM-XANES study. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2019</b> , 235, 1-7	1.7	3

15	Electrochemical area of graphene-supported metal nanoparticles from an atomistic approach. <i>Journal of Applied Electrochemistry</i> , <b>2020</b> , 50, 421-429	2.6	3
14	One-step/one-pot decoration of oxide microparticles with silver nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 428, 32-5	9.3	3
13	Calculation of the diffusion coefficient of thiophene oligomers using molecular dynamics. <i>Molecular Simulation</i> , <b>2012</b> , 38, 882-885	2	3
12	Diffusion mechanisms taking place at the early stages of cobalt deposition on Au(111). <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 265010	1.8	3
11	The unexpected effect of vacancies and wrinkling on the electronic properties of MoS layers. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 24731-24739	3.6	3
10	Mechanochemical stability of sub-nm ZnO chains. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7688-94	3.6	2
9	Avoiding oxidation with coating: graphene protected magnesium surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 18660-18666	3.6	2
8	Mechanistic Framework for the Formation of Different Sulfur Species by Electron Irradiation of n-Dodecanethiol Self-Assembled Monolayers on Au(111) and Au(100). <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22591-22600	3.8	2
7	A density functional study on the reactivity enhancement induced by gold in IrAu nanoalloys.. <i>RSC Advances</i> , <b>2018</b> , 8, 10450-10456	3.7	1
6	Computer Simulations of Electrochemical Low-Dimensional Metal Phase Formation	3.0-6.0	1
5	Soft or Hard? Investigating the Deformation Mechanisms of AuPd and Pd Nanocubes under Compression: An Experimental and Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> ,	3.8	1
4	Bimetallic Synergy on Iridium-Gold Catalysts for the CO Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 1742-1750	3.8	0
3	MoS <sub>2</sub> Effect on Nickel Electrochemical Activation: An Atomistic/Experimental Approach. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18640-18652	3.8	0
2	A novel one-pot room-temperature synthesis route to produce very small photoluminescent silicon nanocrystals. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	
1	Modeling of Protected Nanoparticles. <i>Nanostructure Science and Technology</i> , <b>2013</b> , 275-304	0.9	