Christine Goyhenex

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59 papers	869 citations	17 h-index	28 g-index
61 ext. papers	909 ext. citations	2.9 avg, IF	3.77 L-index

#	Paper	IF	Citations
59	Size effect in the CO chemisorption on palladium clusters supported on magnesium oxide. *Surface Science*, **1992**, 272, 283-288	1.8	107
58	Local strain analysis of the herringbone reconstruction of Au(111) through atomistic simulations. *Physical Review B*, **2002**, 65,	3.3	63
57	Pt/Co(0001) superstructures in the submonolayer range: A tight-binding quenched-molecular-dynamics study. *Physical Review B*, **1999**, 60, 2781-2788	3.3	52
56	Theoretical insight in the energetics of Co adsorption on a reconstructed Au(111) substrate. *Physical Review B*, **2001**, 63,	3.3	46
55	In-situ measurements of the lattice parameter of supported palladium clusters. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1994**, 69, 1073-1084		46
54	Limitation of Auger electron spectroscopy in the determination of the metal-on-oxide growth mode: Pd on MgO(100). *Surface Science*, **1996**, 350, 103-112	1.8	39
53	Atomistic mechanisms for the ordered growth of Co nanodots on Au(788): a comparison between VT-STM experiments and multi-scaled calculations. *Surface Science*, **2004**, 559, 47-62	1.8	36
52	Effect of the chemical order on the electrocatalytic activity of model PtCo electrodes in the oxygen reduction reaction. *Electrochimica Acta*, **2013**, 108, 605-616	6.7	33
51	Cluster critical size effect during growth on a heterogeneous surface. *Physical Review B*, **2004**, 69,	3.3	33
50	FTIR studies of the adsorption of CO on supported metallic clusters. *Surface Science*, **1996**, 352-354, 475-479	1.8	33
49	Dominant role of the epitaxial strain in the magnetism of core-shell Co/Au self-organized nanodots. *Physical Review Letters*, **2009**, 103, 067202	7.4	29
48	In situ study by SEELFS of the first stages of the epitaxial growth of palladium clusters on MgO(100). *Journal of Electron Spectroscopy and Related Phenomena*, **1992**, 61, 65-82	1.7	27
47	Size Effects in Heterogeneous Catalysis **1997**, 117-152		23
46	Adatom and dimer migration in heteroepitaxy: Co/Pt(111). *Surface Science*, **2006**, 600, 15-22	1.8	22
45	Theoretical determination of two critical sizes for strain relaxation during Co/Pt(111) heteroepitaxy. *Surface Science*, **2000**, 446, 272-282	1.8	22
44	Diffusion piloted ordering in codeposited CoPt epitaxial layers: Experiment and quenched molecular dynamics simulations. *Physical Review B*, **2008**, 78,	3.3	20
43	Structural, electronic and magnetic properties of , for M=13, 19, and 55, from first principles. *Journal of Magnetism and Magnetic Materials*, **2014**, 355, 215-224	2.8	17

42	Unified picture of d-band and core-level shifts in transition metal alloys. *Physical Review B*, **2011**, 83,	3.3	15
41	Long-time scale molecular dynamics study of Co diffusion on the Au(111) surface. *Computational Materials Science*, **2003**, 27, 181-185	3.2	14
40	Evolution of the morphology of small Co clusters grown on Au(1 1 1). *Applied Surface Science*, **2004**, 226, 178-184	6.7	13
39	Atomic ordering in nano-layered FePt. *Intermetallics*, **2009**, 17, 907-913	3.5	12
38	The fate of mass selected silver clusters deposited on Pd(100). *Surface Science*, **1995**, 331-333, 838-843	1.8	12
37	Revised tight-binding second moment potential for transition metal surfaces. *Surface Science*, **2012**, 606, 325-328	1.8	11
36	Magnetism of CoPd self-organized alloy clusters on Au(111). *Journal of Applied Physics*, **2013**, 114, 223912	2.5	10
35	Preparation of anisotropic magnetic FeNiPt2 films on MgO(001): Atomistic mechanisms for the interdiffusion of two L10 phases. *Physical Review B*, **2006**, 74,	3.3	10
34	Compressive strain versus tensile strain. *Applied Surface Science*, **2001**, 177, 238-242	6.7	10
33	Rules for tight-binding calculations in bi-metallic compounds based on density functional theory: the case of Co-Au. *Journal of Physics Condensed Matter*, **2010**, 22, 505503	1.8	9
32	AuNi alloy monolayer films electrodeposited on Au(111): An in situ STM study. *Surface Science*, **2013**, 607, 25-32	1.8	7
31	IrPd nanoalloys: simulations, from surface segregation to local electronic properties. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	7
30	Interplay between interfacial and structural properties on the magnetism of self-organized core-shell Co/Pt supported nanodots. *Physical Review B*, **2011**, 84,	3.3	7
29	Ordering trends in transition metal alloys from tight-binding electronic structure calculations. *Physical Review B*, **2011**, 84,	3.3	7
28	Atomic-Scale Faceting in CoPt Nanoparticles Epitaxially Grown on NaCl. *Crystal Growth and Design*, **2014**, 14, 2201-2208	3.5	6
27	Atomistic simulations of relaxation and reconstruction phenomena in heteroepitaxy: Co/Au(1 1 1). *Applied Surface Science*, **2002**, 188, 134-139	6.7	6
26	Environment dependence of magnetic moment and atomic level shifts within tight-binding approximation: An illustration in the case of cobalt. *Surface Science*, **2016**, 646, 261-268	1.8	5
25	How the hydrogen sorption properties of palladium are modified through interaction with iridium. *Physical Chemistry Chemical Physics*, **2017**, 19, 32451-32458	3.6	5

24	Disentangling coordination and alloy effects in transition-metal nanoalloys from their electronic structure. *Physical Review B*, **2013**, 88,	3.3	5
23	Lattice mismatch effect in atomic migration along steps during heteroepitaxial metal growth. *Surface Science*, **2007**, 601, L132-L135	1.8	5
22	Unraveling Finite Size Effects on Magnetic Properties of Cobalt Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 4531-4539	3.8	4
21	Atomic-Migration-Controlled Processes in Intermetallics. *Defect and Diffusion Forum*, **2008**, 277, 113-118	0.7	4
20	Role of spd hybridization in the formation of stacking defects at metal surfaces. *Surface Science*, **2008**, 602, 2681-2688	1.8	4
19	Self-controlled growth and two-dimensional ordering of metallic nanoparticles. *Applied Physics Letters*, **2006**, 88, 153122	3.4	4
18	Kondo screening of the spin and orbital magnetic moments of Fe impurities in Cu. *Physical Review B* , **2017**, 95,	3.3	3
17	Chemical ordering phenomena in nanostructured FePt: Monte Carlo simulations. *Physical Chemistry Chemical Physics*, **2015**, 17, 28394-406	3.6	3
16	Surface induced superstructure transformation in L10FePt by Monte Carlo simulations implemented with Analytic Bond-Order Potentials. *Materials Letters*, **2013**, 106, 273-276	3.3	3
15	Thermodynamics versus kinetics in a morphology transition of nanoparticles. *Physical Review B*, **2013**, 87,	3.3	3
14	Atomic Migration in Bulk and Thin Film L10 Alloys: Experiments and Molecular Dynamics Simulations. *Defect and Diffusion Forum*, **2007**, 263, 41-50	0.7	3
13	Electronic structure of CoPt based systems: from bulk to nanoalloys. *Journal of Physics Condensed Matter*, **2015**, 27, 455503	1.8	2
12	Superstructure Transformations in High-Temperature Intermetallic Nanolayers: Atomistic Simulation **2014**, 1, 3-27		2
11	Atomic ordering in nano-layered FePt: Multiscale Monte Carlo simulation. *Computational Materials Science*, **2010**, 49, S80-S84	3.2	2
10	Surface mismatch and stress relief mechanisms at metallic surfaces. *Applied Surface Science*, **2002**, 188, 163-169	6.7	2
9	Atomic Migration Phenomena in Intermetallics with High Superstructure Stability **2008**, 277-288		2
8	Tight-binding modelling of ferromagnetic metals and alloys. *Modelling and Simulation in Materials Science and Engineering*, **2017**, 25, 084004	2	1
7	Surface Diffusion on Inhomogeneous Surfaces. *Lecture Notes in Physics*, **2010**, 123-159	0.8	1

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6	Formation of stacking defects at surfaces: From atomistic simulations to density functional theory calculations. *Solid State Sciences*, **2010**, 12, 172-178	3.4	1
5	Interdiffusion of Two L10Phases without Long-Range Order Decrease: Experiments and Molecular Dynamics Simulations. *Solid State Phenomena*, **2007**, 129, 59-66	0.4	1
4	Electronic Structure of Nanoalloys: A Guide of Useful Concepts and Tools. *Engineering Materials*, **2012**, 159-195	0.4	
3	Diffusion in Materials by Atomic-Scale Modeling: Exploiting the Predictive Power of Classical and First-Principles Molecular Dynamics. *Defect and Diffusion Forum*, **2010**, 297-301, 244-253	0.7	
2	Atomic Ordering in Nano-Layered FePt: Multiscale Monte Carlo Simulations. *Materials Research Society Symposia Proceedings*, **2009**, 1177, 37		
1	A tight-binding atomistic approach for point defects and surfaces applied to the o-Al13Co4□quasicrystalline approximant. *Computational Materials Science*, **2021**, 200, 110826	3.2	