

Christine Goyhenex

List of Publications by Year in Descending Order

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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	A tight-binding atomistic approach for point defects and surfaces applied to the o-Al ₁₃ Co ₄ quasicrystalline approximant. <i>Computational Materials Science</i> , 2021 , 200, 110826	3.2	
58	Unraveling Finite Size Effects on Magnetic Properties of Cobalt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4531-4539	3.8	4
57	Kondo screening of the spin and orbital magnetic moments of Fe impurities in Cu. <i>Physical Review B</i> , 2017 , 95,	3.3	3
56	Tight-binding modelling of ferromagnetic metals and alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017 , 25, 084004	2	1
55	How the hydrogen sorption properties of palladium are modified through interaction with iridium. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32451-32458	3.6	5
54	Environment dependence of magnetic moment and atomic level shifts within tight-binding approximation: An illustration in the case of cobalt. <i>Surface Science</i> , 2016 , 646, 261-268	1.8	5
53	Chemical ordering phenomena in nanostructured FePt: Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28394-406	3.6	3
52	IrPd nanoalloys: simulations, from surface segregation to local electronic properties. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	7
51	Electronic structure of CoPt based systems: from bulk to nanoalloys. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 455503	1.8	2
50	Structural, electronic and magnetic properties of , for M=13, 19, and 55, from first principles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 355, 215-224	2.8	17
49	Atomic-Scale Faceting in CoPt Nanoparticles Epitaxially Grown on NaCl. <i>Crystal Growth and Design</i> , 2014 , 14, 2201-2208	3.5	6
48	Superstructure Transformations in High-Temperature Intermetallic Nanolayers: Atomistic Simulation 2014 , 1, 3-27		2
47	Effect of the chemical order on the electrocatalytic activity of model PtCo electrodes in the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2013 , 108, 605-616	6.7	33
46	AuNi alloy monolayer films electrodeposited on Au(111): An in situ STM study. <i>Surface Science</i> , 2013 , 607, 25-32	1.8	7
45	Surface induced superstructure transformation in L10FePt by Monte Carlo simulations implemented with Analytic Bond-Order Potentials. <i>Materials Letters</i> , 2013 , 106, 273-276	3.3	3
44	Thermodynamics versus kinetics in a morphology transition of nanoparticles. <i>Physical Review B</i> , 2013 , 87,	3.3	3
43	Magnetism of CoPd self-organized alloy clusters on Au(111). <i>Journal of Applied Physics</i> , 2013 , 114, 2239125		10

42	Disentangling coordination and alloy effects in transition-metal nanoalloys from their electronic structure. <i>Physical Review B</i> , 2013 , 88,	3.3	5
41	Electronic Structure of Nanoalloys: A Guide of Useful Concepts and Tools. <i>Engineering Materials</i> , 2012 , 159-195	0.4	
40	Revised tight-binding second moment potential for transition metal surfaces. <i>Surface Science</i> , 2012 , 606, 325-328	1.8	11
39	Interplay between interfacial and structural properties on the magnetism of self-organized core-shell Co/Pt supported nanodots. <i>Physical Review B</i> , 2011 , 84,	3.3	7
38	Ordering trends in transition metal alloys from tight-binding electronic structure calculations. <i>Physical Review B</i> , 2011 , 84,	3.3	7
37	Unified picture of d-band and core-level shifts in transition metal alloys. <i>Physical Review B</i> , 2011 , 83,	3.3	15
36	Surface Diffusion on Inhomogeneous Surfaces. <i>Lecture Notes in Physics</i> , 2010 , 123-159	0.8	1
35	Diffusion in Materials by Atomic-Scale Modeling: Exploiting the Predictive Power of Classical and First-Principles Molecular Dynamics. <i>Defect and Diffusion Forum</i> , 2010 , 297-301, 244-253	0.7	
34	Rules for tight-binding calculations in bi-metallic compounds based on density functional theory: the case of Co-Au. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 505503	1.8	9
33	Atomic ordering in nano-layered FePt: Multiscale Monte Carlo simulation. <i>Computational Materials Science</i> , 2010 , 49, S80-S84	3.2	2
32	Formation of stacking defects at surfaces: From atomistic simulations to density functional theory calculations. <i>Solid State Sciences</i> , 2010 , 12, 172-178	3.4	1
31	Atomic Ordering in Nano-Layered FePt: Multiscale Monte Carlo Simulations. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1177, 37		
30	Atomic ordering in nano-layered FePt. <i>Intermetallics</i> , 2009 , 17, 907-913	3.5	12
29	Dominant role of the epitaxial strain in the magnetism of core-shell Co/Au self-organized nanodots. <i>Physical Review Letters</i> , 2009 , 103, 067202	7.4	29
28	Atomic-Migration-Controlled Processes in Intermetallics. <i>Defect and Diffusion Forum</i> , 2008 , 277, 113-118	0.7	4
27	Diffusion piloted ordering in codeposited CoPt epitaxial layers: Experiment and quenched molecular dynamics simulations. <i>Physical Review B</i> , 2008 , 78,	3.3	20
26	Role of sp ² hybridization in the formation of stacking defects at metal surfaces. <i>Surface Science</i> , 2008 , 602, 2681-2688	1.8	4
25	Atomic Migration Phenomena in Intermetallics with High Superstructure Stability 2008 , 277-288		2

24	Lattice mismatch effect in atomic migration along steps during heteroepitaxial metal growth. <i>Surface Science</i> , 2007 , 601, L132-L135	1.8	5
23	Atomic Migration in Bulk and Thin Film L10 Alloys: Experiments and Molecular Dynamics Simulations. <i>Defect and Diffusion Forum</i> , 2007 , 263, 41-50	0.7	3
22	Interdiffusion of Two L10 Phases without Long-Range Order Decrease: Experiments and Molecular Dynamics Simulations. <i>Solid State Phenomena</i> , 2007 , 129, 59-66	0.4	1
21	Preparation of anisotropic magnetic FeNiPt ₂ films on MgO(001): Atomistic mechanisms for the interdiffusion of two L10 phases. <i>Physical Review B</i> , 2006 , 74,	3.3	10
20	Self-controlled growth and two-dimensional ordering of metallic nanoparticles. <i>Applied Physics Letters</i> , 2006 , 88, 153122	3.4	4
19	Adatom and dimer migration in heteroepitaxy: Co/Pt(111). <i>Surface Science</i> , 2006 , 600, 15-22	1.8	22
18	Cluster critical size effect during growth on a heterogeneous surface. <i>Physical Review B</i> , 2004 , 69,	3.3	33
17	Atomistic mechanisms for the ordered growth of Co nanodots on Au(788): a comparison between VT-STM experiments and multi-scaled calculations. <i>Surface Science</i> , 2004 , 559, 47-62	1.8	36
16	Evolution of the morphology of small Co clusters grown on Au(1 1 1). <i>Applied Surface Science</i> , 2004 , 226, 178-184	6.7	13
15	Long-time scale molecular dynamics study of Co diffusion on the Au(111) surface. <i>Computational Materials Science</i> , 2003 , 27, 181-185	3.2	14
14	Atomistic simulations of relaxation and reconstruction phenomena in heteroepitaxy: Co/Au(111). <i>Applied Surface Science</i> , 2002 , 188, 134-139	6.7	6
13	Surface mismatch and stress relief mechanisms at metallic surfaces. <i>Applied Surface Science</i> , 2002 , 188, 163-169	6.7	2
12	Local strain analysis of the herringbone reconstruction of Au(111) through atomistic simulations. <i>Physical Review B</i> , 2002 , 65,	3.3	63
11	Compressive strain versus tensile strain. <i>Applied Surface Science</i> , 2001 , 177, 238-242	6.7	10
10	Theoretical insight in the energetics of Co adsorption on a reconstructed Au(111) substrate. <i>Physical Review B</i> , 2001 , 63,	3.3	46
9	Theoretical determination of two critical sizes for strain relaxation during Co/Pt(111) heteroepitaxy. <i>Surface Science</i> , 2000 , 446, 272-282	1.8	22
8	Pt/Co(0001) superstructures in the submonolayer range: A tight-binding quenched-molecular-dynamics study. <i>Physical Review B</i> , 1999 , 60, 2781-2788	3.3	52
7	Size Effects in Heterogeneous Catalysis 1997 , 117-152		23

- 6 FTIR studies of the adsorption of CO on supported metallic clusters. *Surface Science*, **1996**, 352-354, 475-479 33
- 5 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
- 4 The fate of mass selected silver clusters deposited on Pd(100). *Surface Science*, **1995**, 331-333, 838-843 1.8 12
- 3 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
- 2 Size effect in the CO chemisorption on palladium clusters supported on magnesium oxide. *Surface Science*, **1992**, 272, 283-288 1.8 107
- 1 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