

JÃ©rÃ©me Creuze

List of Publications by Year in descending order

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35
papers

668
citations

471371

17
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36
all docs

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docs citations

36
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of Pd segregation and stabilization at edges of AuPd nano-clusters in the presence of CO: A combined DFT and DRIFTS study. <i>Journal of Catalysis</i> , 2013, 308, 272-281.	3.1	96
2	Intergranular segregation and ordering effect: A mixed Monte Carlo mean-field approach. <i>Physical Review B</i> , 2000, 62, 2813-2824.	1.1	56
3	Exotic Behavior of the Outer Shell of Bimetallic Nanoalloys. <i>Physical Review Letters</i> , 2009, 103, 205701.	2.9	48
4	Site segregation in size-mismatched nanoalloys: Application to Cu-Ag. <i>Surface Science</i> , 2006, 600, 5011-5020.	0.8	38
5	Wetting and Structural Transition Induced by Segregation at Grain Boundaries: A Monte Carlo Study. <i>Physical Review Letters</i> , 2001, 86, 5735-5738.	2.9	31
6	Model of surface segregation driving forces and their coupling. <i>Physical Review B</i> , 2008, 78, .	1.1	29
7	Tight-binding variable-charge model for insulating oxides: Application to TiO ₂ and ZrO ₂ polymorphs. <i>Europhysics Letters</i> , 2008, 83, 40001.	0.7	28
8	Crossover among structural motifs in Pd-Au nanoalloys. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28129-28136.	1.3	27
9	CO Adsorption-Induced Surface Segregation and Formation of Pd Chains on AuPd(100) Alloy: Density Functional Theory Based Ising Model and Monte Carlo Simulations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 350-359.	1.5	27
10	“Magic”-Heteroepitaxial Growth on Vicinal Surfaces. <i>Physical Review Letters</i> , 2003, 91, 116101.	2.9	23
11	Surface segregation in AuPd alloys: Ab initio analysis of the driving forces. <i>Surface Science</i> , 2015, 639, 48-53.	0.8	23
12	Intergranular segregation and vibrational effects: A local analysis. <i>Physical Review B</i> , 2000, 61, 14470-14480.	1.1	22
13	Cu-Ag (111) Polymorphism Induced by Segregation and Advacancies. <i>Physical Review Letters</i> , 2003, 91, 176103.	2.9	22
14	Tilted and nontilted Ag overlayer on a Ni(111) substrate: Structure and energetics. <i>Physical Review B</i> , 2009, 79, .	1.1	22
15	Dynamical equilibrium in nanoalloys. <i>Faraday Discussions</i> , 2008, 138, 105-117.	1.6	20
16	Direct Measurement of the Surface Energy of Bimetallic Nanoparticles: Evidence of Vegard’s Rule-like Dependence. <i>Physical Review Letters</i> , 2018, 120, 025901.	2.9	19
17	Multilayer properties of superficial and intergranular segregation isotherms: A mean-field approach. <i>Physical Review B</i> , 2002, 65, .	1.1	18
18	Phase transition induced by superficial segregation: the respective role of the size mismatch and of the chemistry. <i>Surface Science</i> , 2001, 491, 1-16.	0.8	17

#	ARTICLE	IF	CITATIONS
19	Magic compositions in Pd-Au nanoalloys. Computational and Theoretical Chemistry, 2017, 1107, 49-56.	1.1	15
20	Structural phase transition induced by interfacial segregation: a comparison between surface and grain boundary. Applied Surface Science, 2001, 177, 243-251.	3.1	14
21	Atomic-Scale Modelling of Intergranular Segregation: The Case of Alloys with Strong Size-Effect. Defect and Diffusion Forum, 2002, 203-205, 3-36.	0.4	12
22	Adsorbate-induced faceting: The case of Ag on vicinal Cu surfaces. Physical Review B, 2005, 72, .	1.1	12
23	Effect of size on the surface energy of noble metal nanoparticles from analytical and numerical approaches. Physical Review B, 2022, 105, .	1.1	10
24	An "inverse" growth of Ag(111) on Cu(001) obtained by superficial segregation. Surface Science, 2001, 491, L651-L656.	0.8	9
25	Segregation and 2D-Compound in a Grain Boundary: An Exotic Behaviour. Materials Science Forum, 1999, 294-296, 423-426.	0.3	5
26	Vacancy Segregation at Surface Grain Boundaries and their Intersection: an Atomistic Study. Defect and Diffusion Forum, 2001, 194-199, 1217-1222.	0.4	5
27	Ag on a Ni vicinal surface: Coupling Stranski-Krastanov and "magic" heteroepitaxial growth. Physical Review B, 2017, 96, .	1.1	5
28	Superficial Phase Transitions in Nanoalloys. Solid State Phenomena, 0, 172-174, 658-663.	0.3	4
29	Probing NaCl at High Pressure through Optical Studies and Ab Initio Calculations. Journal of Physical Chemistry C, 2019, 123, 15724-15728.	1.5	4
30	Segregation and Phase Transitions in Reduced Dimension: From Bulk to Clusters via Surfaces. Engineering Materials, 2012, , 227-257.	0.3	3
31	Equilibrium Au-Pd(100) Surface Structures under CO Pressure: Energetic Stabilities and Phase Diagrams. Journal of Physical Chemistry C, 2018, 122, 18922-18932.	1.5	2
32	Revealing the Surface Energetics and Reactivity of Bimetallic Copper-Gold Catalyst Nanoparticles by In Situ Environmental TEM. Microscopy and Microanalysis, 2019, 25, 33-34.	0.2	1
33	Absorption kinetics of vacancies by cavities in aluminum: Numerical characterization of sink strengths and first-passage statistics through Krylov subspace projection and eigenvalue deflation. Journal of Computational Physics, 2022, 454, 110987.	1.9	1
34	Estimating linear mass transport coefficients in solid solutions via correlation splitting and a law of total diffusion. Physical Review Materials, 2022, 6, .	0.9	0
35	Ab Initio Study of the Thermodynamics of Intrinsic Point Defects in Thermoelectric Oxychalcogenide BiCuSeO. Journal of Physical Chemistry C, 2022, 126, 5960-5969.	1.5	0