JÃ©rÃ´me Creuze

List of Publications by Year
in descending order

35 papers	668 citations	471509 17 h-index	580821 25 g-index
36 all docs	36 docs citations	36 times ranked	707 citing authors

#	Article	IF	Citations
1	Estimating linear mass transport coefficients in solid solutions via correlation splitting and a law of total diffusion. Physical Review Materials, 2022, 6, .	2.4	0
2	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.	3.8	1
3	Ab Initio Study of the Thermodynamics of Intrinsic Point Defects in Thermoelectric Oxychalcogenide BiCuSeO. Journal of Physical Chemistry C, 2022, 126, 5960-5969.	3.1	0
4	Effect of size on the surface energy of noble metal nanoparticles from analytical and numerical approaches. Physical Review B, 2022, 105, .	3.2	10
5	Probing NaCl at High Pressure through Optical Studies and Ab Initio Calculations. Journal of Physical Chemistry C, 2019, 123, 15724-15728.	3.1	4
6	Revealing the Surface Energetics and Reactivity of Bimetallic Copper-Gold Catalyst Nanoparticles by In Situ Environmental TEM. Microscopy and Microanalysis, 2019, 25, 33-34.	0.4	1
7	Direct Measurement of the Surface Energy of Bimetallic Nanoparticles: Evidence of Vegardâ€™s Rulelike Dependence. Physical Review Letters, 2018, 120, 025901.	7.8	19
8	Equilibrium Auâ€“Pd(100) Surface Structures under CO Pressure: Energetic Stabilities and Phase Diagrams. Journal of Physical Chemistry C, 2018, 122, 18922-18932.	3.1	2
9	Magic compositions in Pd-Au nanoalloys. Computational and Theoretical Chemistry, 2017, 1107, 49-56.	2.5	15
10	Ag on a Ni vicinal surface: Coupling Stranski-Krastanov and â€œmagicâ€•heteroepitaxial growth. Physical Review B, 2017, 96, .	3.2	5
11	CO Adsorption-Induced Surface Segregation and Formation of Pd Chains on AuPd(100) Alloy: Density Functional Theory Based Ising Model and Monte Carlo Simulations. Journal of Physical Chemistry C, 2016, 120, 350-359.	3.1	27
12	Crossover among structural motifs in Pdâ€“Au nanoalloys. Physical Chemistry Chemical Physics, 2015, 17, 28129-28136.	2.8	27
13	Surface segregation in AuPd alloys: Ab initio analysis of the driving forces. Surface Science, 2015, 639, 48-53.	1.9	23
14	Evidence of Pd segregation and stabilization at edges of AuPd nano-clusters in the presence of CO: A combined DFT and DRIFTS study. Journal of Catalysis, 2013, 308, 272-281.	6.2	96
15	Segregation and Phase Transitions in Reduced Dimension: From Bulk to Clusters via Surfaces. Engineering Materials, 2012, , 227-257.	0.6	3
16	Exotic Behavior of the Outer Shell of Bimetallic Nanoalloys. Physical Review Letters, 2009, 103, 205701.	7.8	48
17	Tilted and nontilted Ag overlayer on a Ni(111) substrate: Structure and energetics. Physical Review B, 2009, 79, .	3.2	22
18	Dynamical equilibrium in nanoalloys. Faraday Discussions, 2008, 138, 105-117.	3.2	20

#	ARTICLE	IF	CITATIONS
19	Model of surface segregation driving forces and their coupling. Physical Review B, 2008, 78, .	3.2	29
20	Tight-binding variable-charge model for insulating oxides: Application to TiO 2 and ZrO 2 polymorphs. Europhysics Letters, 2008, 83, 40001.	2.0	28
21	Site segregation in size-mismatched nanoalloys: Application to Cuâ€“Ag. Surface Science, 2006, 600, 5011-5020.	1.9	38
22	Adsorbate-induced faceting: The case of Ag on vicinal Cu surfaces. Physical Review B, 2005, 72, .	3.2	12
23	Cu-Ag (111) Polymorphism Induced by Segregation and Advacancies. Physical Review Letters, 2003, 91, 176103.	7.8	22
24	â€œMagicâ€•Heteroepitaxial Growth on Vicinal Surfaces. Physical Review Letters, 2003, 91, 116101.	7.8	23
25	Multilayer properties of superficial and intergranular segregation isotherms: A mean-field approach. Physical Review B, 2002, 65, .	3.2	18
26	Atomic-Scale Modelling of Integranular Segregation: The Case of Alloys with Strong Size-Effect. Defect and Diffusion Forum, 2002, 203-205, 3-36.	0.4	12
27	An â€œinverseâ€•growth of Ag(111) on Cu(001) obtained by superficial segregation. Surface Science, 2001, 491, L651-L656.	1.9	9
28	Phase transition induced by superficial segregation: the respective role of the size mismatch and of the chemistry. Surface Science, 2001, 491, 1-16.	1.9	17
29	Structural phase transition induced by interfacial segregation: a comparison between surface and grain boundary. Applied Surface Science, 2001, 177, 243-251.	6.1	14
30	Vacancy Segregation at Surface Grain Boundaries and their Intersection: an Atomistic Study. Defect and Diffusion Forum, 2001, 194-199, 1217-1222.	0.4	5
31	Wetting and Structural Transition Induced by Segregation at Grain Boundaries: A Monte Carlo Study. Physical Review Letters, 2001, 86, 5735-5738.	7.8	31
32	Intergranular segregation and vibrational effects: A local analysis. Physical Review B, 2000, 61, 14470-14480.	3.2	22
33	Intergranular segregation and ordering effect: A mixed Monte Carlo mean-field approach. Physical Review B, 2000, 62, 2813-2824.	3.2	56
34	Segregation and 2D-Compound in a Grain Boundary: An Exotic Behaviour. Materials Science Forum, 1999, 294-296, 423-426.	0.3	5
35	Superficial Phase Transitions in Nanoalloys. Solid State Phenomena, 0, 172-174, 658-663.	0.3	4