

Andrea Resta

List of Publications by Year in descending order

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51
papers

5,566
citations

249298

26
h-index

206121

51
g-index

51
all docs

51
docs citations

51
times ranked

7594
citing authors

#	ARTICLE	IF	CITATIONS
1	Steps and catalytic reactions: CO oxidation with preadsorbed O on Rh(553). Surface Science, 2022, 715, 121928.	0.8	2
2	Combined surface x-ray diffraction and density functional theory study of the germanene/Al(111)- $\sqrt{3}\times\sqrt{3}$ structure. Physical Review B, 2022, 106, .	1.1	4
3	Demonstration of the Existence of Dumbbell Silicene: A Stable Two-Dimensional Allotrope of Silicon. Journal of Physical Chemistry C, 2021, 125, 17906-17917.	1.5	11
4	Structure of Germanene/Al(111): A Two-Layer Surface Alloy. Journal of Physical Chemistry C, 2021, 125, 24702-24709.	1.5	8
5	Evidence of a C_{60} /Co interface reconstruction and its influence on magnetic properties. Physical Review B, 2021, 104, .	1.1	4
6	Pseudo-2-Fold Surface of the Al ₁₃ Co ₄ Catalyst: Structure, Stability, and Hydrogen Adsorption. ACS Applied Materials & Interfaces, 2020, 12, 39787-39797.	4.0	5
7	Surface mobility and impact of precursor dosing during atomic layer deposition of platinum: <i>in situ</i> monitoring of nucleation and island growth. Physical Chemistry Chemical Physics, 2020, 22, 24917-24933.	1.3	19
8	Ammonia Oxidation over a Pt ₂₅ Rh ₇₅ (001) Model Catalyst Surface: An Operando Study. Journal of Physical Chemistry C, 2020, 124, 22192-22199.	1.5	7
9	From the Surface Structure to Catalytic Properties of Al ₅ Co ₂ (21 $\bar{1}$.0): A Study Combining Experimental and Theoretical Approaches. Journal of Physical Chemistry C, 2020, 124, 4552-4562.	1.5	11
10	From Chains to Monolayers: Nanoparticle Assembly Driven by Smectic Topological Defects. Nano Letters, 2020, 20, 1598-1606.	4.5	19
11	Interfacial Silicide Formation and Stress Evolution during Sputter Deposition of Ultrathin Pd Layers on a-Si. ACS Applied Materials & Interfaces, 2019, 11, 39315-39323.	4.0	6
12	Structure and stability of silicene on Ag(111) reconstructions from grazing incidence x-ray diffraction and density functional theory. Physical Review B, 2019, 99, .	1.1	14
13	Deep metallic interdiffusion in a model ferromagnetic/molecular system. Physical Review Materials, 2019, 3, .	0.9	5
14	Multilayer silicene: clear evidence of Ag-terminated bulk silicon. 2D Materials, 2017, 4, 025067.	2.0	17
15	Determining the atomic structure of the $\sqrt{3}\times\sqrt{3}$ structure of germanene on Ag(111) by first-principles calculations. Physical Review B, 2016, 94, .	1.1	27
16	Electrochemical Atomic Layer Deposition of CdS on Ag Single Crystals: Effects of Substrate Orientation on Film Structure. Journal of Physical Chemistry C, 2014, 118, 6132-6139.	1.5	20
17	Synthesis and electrical conductivity of multilayer silicene. Applied Physics Letters, 2014, 104, .	1.5	136
18	The Metallic Nature of Epitaxial Silicene Monolayers on Ag(111). Advanced Functional Materials, 2014, 24, 5253-5259.	7.8	69

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19	Presence of gapped silicene-derived band in the prototypical (3 Å– 3) silicene phase on silver (111) surfaces. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 262001.	0.7	70
20	Evidence of Dirac fermions in multilayer silicene. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	180
21	(Invited) Beyond Graphene: Synthesis of Epitaxial Silicene Sheets. <i>ECS Transactions</i> , 2013, 50, 609-611.	0.3	2
22	The quasiparticle band dispersion in epitaxial multilayer silicene. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 382202.	0.7	55
23	Epitaxial silicene: can it be strongly strained?. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 392001.	1.3	59
24	Reversible formation of a PdCx phase in Pd nanoparticles upon CO and O2 exposure. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4796.	1.3	47
25	Structural Phases of Ordered FePc-Nanochains Self-Assembled on Au(110). <i>Langmuir</i> , 2012, 28, 13232-13240.	1.6	26
26	The Active Phase of Palladium during Methane Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 678-682.	2.1	183
27	Silicene: Compelling Experimental Evidence for Graphenelike Two-Dimensional Silicon. <i>Physical Review Letters</i> , 2012, 108, 155501.	2.9	3,275
28	Oxygen-Stabilized Rh Adatoms: OD Oxides on a Vicinal Surface. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2747-2751.	2.1	5
29	Surface structure and reactivity of Pd(100) during CO oxidation near ambient pressures. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13167.	1.3	104
30	Low-Temperature CO Oxidation on Ni(111) and on a Au/Ni(111) Surface Alloy. <i>ACS Nano</i> , 2010, 4, 4380-4387.	7.3	80
31	The role of steps in surface catalysis and reaction oscillations. <i>Nature Chemistry</i> , 2010, 2, 730-734.	6.6	184
32	Reply to "Comment on "Catalytic Activity of the Rh Surface Oxide: CO Oxidation over Rh(111) under Realistic Conditions"™. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22372-22373.	1.5	14
33	Catalytic Activity of the Rh Surface Oxide: CO Oxidation over Rh(111) under Realistic Conditions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4580-4583.	1.5	88
34	Ni and Cu octaethyl porphyrins ordered monolayer on Au(111) surfaces. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1951-1954.	1.5	10
35	Reaction mechanism of ammonia oxidation over RuO2(110): A combined theory/experiment approach. <i>Surface Science</i> , 2009, 603, L113-L116.	0.8	21
36	Structure and catalytic reactivity of Rh oxides. <i>Catalysis Today</i> , 2009, 145, 227-235.	2.2	71

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37	The ID03 surface diffraction beamline for in-situ and real-time X-ray investigations of catalytic reactions at surfaces. <i>Catalysis Today</i> , 2009, 145, 220-226.	2.2	56
38	Influence of Oxygen Vacancies on the Properties of Ceria-Supported Gold. <i>Journal of Physical Chemistry C</i> , 2009, 113, 724-728.	1.5	51
39	Step enhanced dehydrogenation of ethanol on Rh. <i>Surface Science</i> , 2008, 602, 3057-3063.	0.8	23
40	Stressing Pd atoms: Initial oxidation of the Pd(110) surface. <i>Surface Science</i> , 2008, 602, 2440-2447.	0.8	31
41	CO Adsorption on a Au/CeO ₂ (111) Model Catalyst. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6900-6906.	1.5	58
42	X-ray investigation of subsurface interstitial oxygen at Nb/oxide interfaces. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	84
43	Structure and reactivity of a model catalyst alloy under realistic conditions. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 184018.	0.7	47
44	Step-Orientation-Dependent Oxidation: From 1D to 2D Oxides. <i>Physical Review Letters</i> , 2008, 101, 266104.	2.9	49
45	Complex Interaction of Hydrogen with the RuO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5363-5373.	1.5	88
46	Growth and Reactivity of Titanium Oxide Ultrathin Films on Ni(110). <i>Journal of Physical Chemistry C</i> , 2007, 111, 7704-7710.	1.5	33
47	Unusual Process of Water Formation on RuO ₂ (110) by Hydrogen Exposure at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14007-14010.	1.2	35
48	Kinetics of the Reduction of the Rh(111) Surface Oxide: Linking Spectroscopy and Atomic-Scale Information. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9966-9975.	1.2	27
49	Acetate formation during the ethanol oxidation on Rh(111). <i>Surface Science</i> , 2006, 600, 5136-5141.	0.8	14
50	Mechanism of CO oxidation reaction on O-covered Pd(111) surfaces studied with fast x-ray photoelectron spectroscopy: Change of reaction path accompanying phase transition of O domains. <i>Journal of Chemical Physics</i> , 2006, 124, 224712.	1.2	50
51	The surface oxide as a source of oxygen on Rh(100). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 367-372.	0.8	62