

Silvano Lizzit

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7956922/publications.pdf>

Version: 2024-02-01

66
papers

3,613
citations

218677

26
h-index

128289

60
g-index

66
all docs

66
docs citations

66
times ranked

5498
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational Fine Structure in C 1s High-Resolution Core-Level Spectra of CO Chemisorbed on Ir(111). <i>Journal of Physical Chemistry C</i> , 2022, 126, 1411-1419.	3.1	2
2	Thermal Annealing of Graphene Implanted with Mn at Ultralow Energies: From Disordered and Contaminated to Nearly Pristine Graphene. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10494-10505.	3.1	6
3	Unusual reversibility in molecular break-up of PAHs: the case of pentacene dehydrogenation on Ir(111). <i>Chemical Science</i> , 2021, 12, 170-178.	7.4	4
4	Growth, Stability, and Electronic Decoupling of Pt Clusters on h-BN/Ir(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 3880-3889.	3.1	10
5	Ion Implantation as an Approach for Structural Modifications and Functionalization of Ti ₃ C ₂ T _x MXenes. <i>ACS Nano</i> , 2021, 15, 4245-4255.	14.6	37
6	Atomic Undercoordination in Ag Islands on Ru(0001) Grown via Size-Selected Cluster Deposition: An Experimental and Theoretical High-Resolution Core-Level Photoemission Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9556-9563.	3.1	4
7	Spectroscopic view of ultrafast charge carrier dynamics in single- and bilayer transition metal dichalcogenide semiconductors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021, 250, 147093.	1.7	9
8	Mixed Cation Halide Perovskite under Environmental and Physical Stress. <i>Materials</i> , 2021, 14, 3954.	2.9	14
9	Carbon Embedding of Pt Cluster Superlattices Templated by Hexagonal Boron Nitride on Ir(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 23435-23444.	3.1	1
10	Anisotropic strain in epitaxial single-layer molybdenum disulfide on Ag(110). <i>Nanoscale</i> , 2021, 13, 18789-18798.	5.6	5
11	Interfacial two-dimensional oxide enhances photocatalytic activity of graphene/titania via electronic structure modification. <i>Carbon</i> , 2020, 157, 350-357.	10.3	7
12	Resistance hysteresis correlated with synchrotron radiation surface studies in atomic sp ² layers of carbon synthesized on ferroelectric (001) lead zirconate titanate in an ultrahigh vacuum. <i>RSC Advances</i> , 2020, 10, 1522-1534.	3.6	7
13	Role of the Metal Surface on the Room Temperature Activation of the Alcohol and Amino Groups of <i>p</i> -Aminophenol. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19655-19665.	3.1	2
14	Growth Mechanism and Thermal Stability of a MoS ₂ –Graphene Interface: A High-Resolution Core-Level Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20889-20897.	3.1	4
15	Cluster Superlattice Membranes. <i>ACS Nano</i> , 2020, 14, 13629-13637.	14.6	6
16	Reversible changes in the electronic structure of carbon nanotube-hybrids upon NO ₂ exposure under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9753-9759.	10.3	4
17	Translucency of Graphene to van der Waals Forces Applies to Atoms/Molecules with Different Polar Character. <i>ACS Nano</i> , 2019, 13, 12230-12241.	14.6	11
18	Momentum-resolved linear dichroism in bilayer MoS_2 . <i>Physical Review B</i> , 2019, 100, .		

#	ARTICLE	IF	CITATIONS
19	Layer and orbital interference effects in photoemission from transition metal dichalcogenides. <i>Physical Review B</i> , 2019, 100, .	3.2	11
20	Dual-Route Hydrogenation of the Graphene/Ni Interface. <i>ACS Nano</i> , 2019, 13, 1828-1838.	14.6	8
21	Hydrogen interaction with graphene on Ir(111): a combined intercalation and functionalization study. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 085001.	1.8	6
22	Growth and structure of singly oriented single-layer tungsten disulfide on Au(111). <i>Physical Review Materials</i> , 2019, 3, .	2.4	18
23	Epitaxial growth of single-orientation high-quality MoS ₂ monolayers. <i>2D Materials</i> , 2018, 5, 035012.	4.4	65
24	A first-principles study of stability of surface confined mixed metal oxides with corundum structure (Fe ₂ O ₃ , Cr ₂ O ₃ , V ₂ O ₃). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7073-7081.	2.8	7
25	Comparison of surface structures of corundum Cr ₂ O ₃ (0001) and V ₂ O ₃ (0001) ultrathin films by x-ray photoelectron diffraction. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 074002.	1.8	5
26	Photoemission investigation of oxygen intercalated epitaxial graphene on Ru(0001). <i>Surface Science</i> , 2018, 678, 57-64.	1.9	18
27	Graphene growth by molecular beam epitaxy: an interplay between desorption, diffusion and intercalation of elemental C species on islands. <i>Nanoscale</i> , 2018, 10, 7396-7406.	5.6	17
28	The adsorption of silicon on an iridium surface ruling out silicene growth. <i>Nanoscale</i> , 2018, 10, 7085-7094.	5.6	13
29	Spin Structure of K Valleys in Single-Layer WS ₂ on Au(111). <i>Physical Review Letters</i> , 2018, 121, 136402.	7.8	28
30	Novel single-layer vanadium sulphide phases. <i>2D Materials</i> , 2018, 5, 045009.	4.4	48
31	Spectroscopic Fingerprints of Carbon Monomers and Dimers on Ir(111): Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11335-11345.	3.1	9
32	Key role of rotated domains in oxygen intercalation at graphene on Ni(111). <i>2D Materials</i> , 2017, 4, 025106.	4.4	26
33	Ethylene Dissociation on Ni ₃ Al(111). <i>Journal of Physical Chemistry C</i> , 2017, 121, 7967-7976.	3.1	2
34	Unexpected Rotamerism at the Origin of a Chessboard Supramolecular Assembly of Ruthenium Phthalocyanine. <i>Chemistry - A European Journal</i> , 2017, 23, 16319-16327.	3.3	11
35	Unveiling the Mechanisms Leading to H ₂ Production Promoted by Water Decomposition on Epitaxial Graphene at Room Temperature. <i>ACS Nano</i> , 2016, 10, 4543-4549.	14.6	60
36	Ethylene decomposition on Ir(111): initial path to graphene formation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27897-27909.	2.8	28

#	ARTICLE	IF	CITATIONS
37	Disentangling Vacancy Oxidation on Metallicity-Sorted Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18316-18322.	3.1	8
38	Molecular Lifting, Twisting, and Curling during Metal-Assisted Polycyclic Hydrocarbon Dehydrogenation. <i>Journal of the American Chemical Society</i> , 2016, 138, 3395-3402.	13.7	12
39	Self-Assembly of Graphene Nanoblister Sealed to a Bare Metal Surface. <i>Nano Letters</i> , 2016, 16, 1808-1817.	9.1	36
40	Unravelling the roles of surface chemical composition and geometry for the graphene-metal interaction through C1s core-level spectroscopy. <i>Carbon</i> , 2015, 93, 187-198.	10.3	18
41	Chemical gating of epitaxial graphene through ultrathin oxide layers. <i>Nanoscale</i> , 2015, 7, 12650-12658.	5.6	13
42	Spectro-microscopic photoemission evidence of charge uncompensated areas in Pb(Zr,Ti)O ₃ (001) layers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 509-520.	2.8	43
43	Epitaxial Growth of a Single-Domain Hexagonal Boron Nitride Monolayer. <i>ACS Nano</i> , 2014, 8, 12063-12070.	14.6	64
44	Revealing the Adsorption Mechanisms of Nitroxides on Ultrapure, Metallicity-Sorted Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 1375-1383.	14.6	31
45	Bis(triisopropylsilylethynyl)pentacene/Au(111) Interface: Coupling, Molecular Orientation, and Thermal Stability. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22522-22532.	3.1	10
46	Bottom-up approach for the low-cost synthesis of graphene-alumina nanosheet interfaces using bimetallic alloys. <i>Nature Communications</i> , 2014, 5, 5062.	12.8	37
47	Ultrafast Charge Transfer at Monolayer Graphene Surfaces with Varied Substrate Coupling. <i>ACS Nano</i> , 2013, 7, 4359-4366.	14.6	16
48	Controlling Hydrogenation of Graphene on Ir(111). <i>ACS Nano</i> , 2013, 7, 3823-3832.	14.6	69
49	Local Electronic Structure and Density of Edge and Facet Atoms at Rh Nanoclusters Self-Assembled on a Graphene Template. <i>ACS Nano</i> , 2012, 6, 3034-3043.	14.6	49
50	Transfer-Free Electrical Insulation of Epitaxial Graphene from its Metal Substrate. <i>Nano Letters</i> , 2012, 12, 4503-4507.	9.1	120
51	Oxygen Switching of the Epitaxial Graphene-Metal Interaction. <i>ACS Nano</i> , 2012, 6, 9551-9558.	14.6	195
52	Epitaxial Growth of Hexagonal Boron Nitride on Ir(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 157-164.	3.1	69
53	Enhanced Chemical Reactivity of Under-Coordinated Atoms at Pt-Rh Bimetallic Surfaces: A Spectroscopic Characterization. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3378-3384.	3.1	24
54	Thermal Expansion of Supported and Freestanding Graphene: Lattice Constant versus Interatomic Distance. <i>Physical Review Letters</i> , 2011, 106, 135501.	7.8	148

#	ARTICLE	IF	CITATIONS
55	High-resolution fast X-ray photoelectron spectroscopy study of ethylene interaction with Ir(111): From chemisorption to dissociation and graphene formation. <i>Catalysis Today</i> , 2010, 154, 68-74.	4.4	45
56	Bandgap opening in graphene induced by patterned hydrogen adsorption. <i>Nature Materials</i> , 2010, 9, 315-319.	27.5	1,344
57	Band dispersion in the deep 1s core level of \hat{A} graphene. <i>Nature Physics</i> , 2010, 6, 345-349.	16.7	48
58	Layer-dependent Debye temperature and thermal expansion of Ru(0001) by means of high-energy resolution core-level photoelectron spectroscopy. <i>Physical Review B</i> , 2010, 82, .	3.2	8
59	Growth of Dome-Shaped Carbon Nanoislands on Ir(111): The Intermediate between Carbide Clusters and Quasi-Free-Standing Graphene. <i>Physical Review Letters</i> , 2009, 103, 166101.	7.8	178
60	Core level shifts of undercoordinated Pt atoms. <i>Journal of Chemical Physics</i> , 2008, 128, 114706.	3.0	41
61	Experimental and Theoretical Surface Core Level Shift Study of the S-Rh(100) Local Environment. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4003-4013.	3.1	7
62	Geometric and electronic structure of the $\hat{N}\hat{A}\hat{\cdot}$ Rh(100) system by core-level photoelectron spectroscopy: Experiment and theory. <i>Physical Review B</i> , 2006, 74, .	3.2	29
63	Real-time X-ray photoelectron spectroscopy of surface reactions. <i>Surface Science Reports</i> , 2003, 49, 169-224.	7.2	126
64	Single-Wall Carbon Nanotube Interaction with Gases: \hat{A} Sample Contaminants and Environmental Monitoring. <i>Journal of the American Chemical Society</i> , 2003, 125, 11329-11333.	13.7	261
65	Oxygen adsorption and ordering on Ru(101 \hat{A} 0). <i>Physical Review B</i> , 2001, 63, .	3.2	30
66	Effects of the interatomic-potential anharmonicity on the bulk and surface photoemission core levels. <i>Physical Review B</i> , 2000, 61, 12713-12716.	3.2	9