

# Letizia Savio

## List of Publications by Year in descending order

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100  
papers

2,457  
citations

236925

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233421

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102  
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102  
docs citations

102  
times ranked

2611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Defects and Heteroatoms on the Chemical Properties of Supported Graphene Layers. <i>Coatings</i> , 2022, 12, 397.	2.6	9
2	Adsorption of Glutamic acid on clean and hydroxylated rutile TiO <sub>2</sub> (110): an XPS and NEXAFS investigation. <i>Journal of Physics Condensed Matter</i> , 2022, , .	1.8	2
3	Boudouard reaction under graphene cover on Ni(1 1 1). <i>Applied Surface Science</i> , 2022, 599, 154065.	6.1	5
4	Correlating hydrophobicity to surface chemistry of microstructured aluminium surfaces. <i>Applied Surface Science</i> , 2021, 542, 148574.	6.1	27
5	Morphological characterization and electronic properties of pristine and oxygen-exposed graphene nanoribbons on Ag(110). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7926-7937.	2.8	2
6	Graphene growth on Ni (1 1 1) by CO exposure at near ambient pressure. <i>Chemical Physics Letters</i> , 2021, 774, 138596.	2.6	8
7	Prominence of Terahertz Acoustic Surface Plasmon Excitation in Gas-Surface Interaction with Metals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9894-9898.	4.6	3
8	2D Ni Nanoclusters on Ultrathin MgO/Ag(100). <i>Journal of Physical Chemistry C</i> , 2020, 124, 482-488.	3.1	1
9	Interface Oxygen Induced Internal Structures of Ultrathin MgO Islands Grown on Ag(100). <i>Journal of Physical Chemistry C</i> , 2020, 124, 8834-8842.	3.1	5
10	Reversible and irreversible structural changes in FeO/Ru(O <sub>1-x</sub> ) model catalyst subjected to atomic oxygen. <i>Applied Surface Science</i> , 2020, 528, 146032.	6.1	5
11	Vibrational fingerprint of the catalytically-active FeO <sub>2-x</sub> iron oxide phase on Pt(111). <i>Applied Surface Science</i> , 2020, 512, 145774.	6.1	1
12	Self-assembly of Organic Molecules at Metal Surfaces. <i>Springer Handbooks</i> , 2020, , 967-1004.	0.6	1
13	Chemisorption of CO on N-doped graphene on Ni(111). <i>Applied Surface Science</i> , 2018, 428, 775-780.	6.1	18
14	Synthesis of corrugated C-based nanostructures by Br-corannulene oligomerization. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26161-26172.	2.8	9
15	Influence of Defects on Adsorption-Model Studies With Stepped Surfaces. , 2018, , 138-165.		2
16	Deciphering complex features in STM images of O adatoms on Ag(110). <i>Physical Review B</i> , 2018, 98, .	3.2	6
17	Influence of growing conditions on the reactivity of Ni supported graphene towards CO. <i>Journal of Chemical Physics</i> , 2017, 146, 104704.	3.0	14
18	On-surface synthesis of different boron-nitrogen-carbon heterostructures from dimethylamine borane. <i>Carbon</i> , 2017, 120, 185-193.	10.3	11

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19	Atomically Engineered Graphene Nanoribbons with a Defined Mixed Edge-Site Sequence by Surface Assisted Polymerization of (1,6)-Dibromopyrene on Ag(110). <i>Nanoscale</i> , 2016, 8, 17843-17853.	7.8	11
20	Adsorption of Amino Acids and Peptides on Metal and Oxide Surfaces in Water Environment: A Synthetic and Prospective Review. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7039-7052.	2.6	74
21	Comment on "Adsorption of hydrogen and hydrocarbon molecules on SiC(001)" by Pollmann et al. ( <i>Surf. Sci. Rep.</i> 69 (2014) 55-104). <i>Surface Science</i> , 2016, 644, L170-L171.	1.9	1
22	Phonons in Thin Oxide Films. <i>Springer Series in Materials Science</i> , 2016, , 169-199.	0.6	2
23	CO chemisorption at vacancies of supported graphene films: a candidate for a sensor?. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18692-18696.	2.8	15
24	Synthesis of graphene nanoribbons with a defined mixed edge-site sequence by surface assisted polymerization of (1,6)-dibromopyrene on Ag(110). <i>Nanoscale</i> , 2016, 8, 17843-17853.	5.6	20
25	Enhanced Chemical Reactivity of Pristine Graphene Interacting Strongly with a Substrate: Chemisorbed Carbon Monoxide on Graphene/Nickel(111). <i>ChemCatChem</i> , 2015, 7, 2328-2331.	3.7	36
26	Sticking Probability and Reactivity of Hyperthermal O <sub>2</sub> Molecules Impinging on CO Pre-covered Pd(100): Effect of Rotational States with K&A>A1. <i>Topics in Catalysis</i> , 2015, 58, 580-590.	2.8	1
27	Spontaneous Oxidation of Ni Nanoclusters on MgO Monolayers Induced by Segregation of Interfacial Oxygen. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3104-3109.	4.6	15
28	Adsorption and self-assembly of bio-organic molecules at model surfaces: A route towards increased complexity. <i>Surface Science Reports</i> , 2015, 70, 449-553.	7.2	64
29	DFT Atomistic Thermodynamics Applied To Elucidate the Driving Force behind Glutamic Acid Self-Assemblies on Silver (100) Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29874-29879.	3.1	7
30	Anisotropic Dispersion and Partial Localization of Acoustic Surface Plasmons on an Atomically Stepped Surface: Au(788). <i>Physical Review Letters</i> , 2014, 113, 186804.	7.8	13
31	How Growing Conditions and Interfacial Oxygen Affect the Final Morphology of MgO/Ag(100) Films. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26091-26102.	3.1	31
32	Morphology of Monolayer MgO Films on Ag(100): Switching from Corrugated Islands to Extended Flat Terraces. <i>Physical Review Letters</i> , 2014, 112, 126102.	7.8	60
33	From Vanadia Nanoclusters to Ultrathin Films on TiO <sub>2</sub> (110): Evolution of the Yield and Selectivity in the Ethanol Oxidation Reaction. <i>ACS Catalysis</i> , 2014, 4, 3715-3723.	11.2	23
34	High Resolution Electron Energy Loss Spectroscopy (HREELS): A Sensitive and Versatile Surface Tool. <i>Springer Series in Surface Sciences</i> , 2013, , 499-529.	0.3	6
35	Spectroscopic Evidence for Neutral and Anionic Adsorption of (S)-Glutamic Acid on Ag(111). <i>Langmuir</i> , 2013, 29, 6867-6875.	3.5	6
36	Unraveling the Self-Assembly of the (S)-Glutamic Acid "Flower" Structure on Ag(100). <i>Langmuir</i> , 2013, 29, 7876-7884.	3.5	19

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37	Hydrogen-induced nanotunnel opening within semiconductor subsurface. Nature Communications, 2013, 4, .	12.8	10
38	Accretion disc origin of the Earth's water. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110585.	3.4	14
39	Supersonic Molecular Beams Studies of Surfaces. Springer Series in Surface Sciences, 2013, , 1-23.	0.3	3
40	Coupling scanning tunneling microscope and supersonic molecular beams: A unique tool for in situ investigation of the morphology of activated systems. Review of Scientific Instruments, 2012, 83, 093703.	1.3	6
41	Acoustic Surface Plasmon Dispersion on Nanostructured Cu(111). Plasmonics, 2012, 7, 323-329.	3.4	19
42	( <i>S</i> )-Glutamic Acid on Ag(100): Self-Assembly in the Nonzwitterionic Form. Langmuir, 2011, 27, 2393-2404.	3.5	20
43	Stoichiometry-Dependent Chemical Activity of Supported MgO(100) Films. Journal of Physical Chemistry A, 2011, 115, 7161-7168.	2.5	21
44	Poisoning and non-poisoning oxygen on Cu(410). Journal of Physics Condensed Matter, 2011, 23, 484001.	1.8	1
45	Stereoselectivity in catalytic reactions: CO oxidation on Pd(100) by rotationally aligned O <sub>2</sub> molecules. European Physical Journal B, 2010, 75, 81-87.	1.5	6
46	Interaction of rotationally aligned and of oriented molecules in gas phase and at surfaces. Progress in Surface Science, 2010, 85, 92-160.	8.3	71
47	Common fingerprint of hydroxylated non-polar steps on MgO smoke and MgO films. Surface Science, 2010, 604, 252-257.	1.9	12
48	O <sub>2</sub> dissociation before the onset of added row nucleation on Ag(110): an atomistic scanning tunnelling microscopy view. Journal of Physics Condensed Matter, 2010, 22, 304015.	1.8	9
49	Self-Assembly of ( <i>S</i> )-Glutamic Acid on Ag(100): A Combined LT-STM and Ab Initio Investigation. Langmuir, 2010, 26, 7208-7215.	3.5	29
50	Hydrogen-Assisted Transformation of CO <sub>2</sub> on Nickel: The Role of Formate and Carbon Monoxide. Journal of Physical Chemistry Letters, 2010, 1, 402-406.	4.6	111
51	Selective Production of Reactive and Nonreactive Oxygen Atoms on Pd(001) by Rotationally Aligned Oxygen Molecules. Angewandte Chemie - International Edition, 2009, 48, 4845-4848.	13.8	27
52	Dynamics of Ethene Adsorption on Clean and C-Contaminated Cu(410). Journal of Physical Chemistry C, 2009, 113, 20875-20880.	3.1	13
53	Bridging the structure gap: Chemistry of nanostructured surfaces at well-defined defects. Surface Science Reports, 2008, 63, 101-168.	7.2	120
54	Initial sticking probability of O <sub>2</sub> on Cu(410). Surface Science, 2008, 602, 2689-2692.	1.9	5

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55	Band structure effects on the Be(0001) acoustic surface plasmon energy dispersion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1307-1311.	1.8	19
56	Carbon Dioxide Hydrogenation on Ni(110). <i>Journal of the American Chemical Society</i> , 2008, 130, 11417-11422.	13.7	151
57	Oxygen interaction at Ag(511): from chemisorption to the initial stages of oxide formation. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 224006.	1.8	5
58	Tuning the Stoichiometry of Surface Oxide Phases by Step Morphology: $\text{Ag}_{210}\text{O}$ (stretchy="false")	7.8	18
59	Interaction of carbon dioxide with Ni(110): A combined experimental and theoretical study. <i>Physical Review B</i> , 2007, 76, .	3.2	78
60	X-ray photoemission study of the temperature-dependent CuO formation on Cu(410) using an energetic O <sub>2</sub> molecular beam. <i>Physical Review B</i> , 2007, 75, .	3.2	39
61	From adsorption at the surface to incorporation into subsurface sites: the role of steps for O/Ag. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 399-404.	2.3	18
62	High-resolution Electron Energy Loss Spectroscopy Study of O-Cu(410). <i>Journal of Physical Chemistry B</i> , 2007, 111, 1679-1683.	2.6	10
63	Unravelling the Role of Steps in Cu <sub>2</sub> O Formation via Hyperthermal O <sub>2</sub> Adsorption at Cu(410). <i>Journal of Physical Chemistry C</i> , 2007, 111, 17340-17345.	3.1	18
64	Pressure and temperature dependence of cuprous oxide nucleation on Cu(410). <i>Journal of Physics Condensed Matter</i> , 2007, 19, 305022.	1.8	9
65	Low-energy acoustic plasmons at metal surfaces. <i>Nature</i> , 2007, 448, 57-59.	27.8	189
66	Subsurface Oxygen Stabilization by a Third Species: Carbonates on Ag(210). <i>Journal of Physical Chemistry C</i> , 2007, 111, 10923-10930.	3.1	16
67	Monitoring Super- and Subsurface Oxygen on Ag(210) by High Energy Resolution X-ray Photoelectron Spectroscopy: Subsurface Diffusion and Segregation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 942-947.	2.6	18
68	Interaction of a long molecular wire with a nanostructured surface: Violet Landers on Cu(211). <i>Chemical Physics Letters</i> , 2006, 428, 331-337.	2.6	9
69	Role of Rotational Alignment in Dissociative Chemisorption and Oxidation: O <sub>2</sub> on Bare and CO-Precovered Pd(100). <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6655-6658.	13.8	44
70	STM study of hydroxyl formation at O <sup>*</sup> -Ag(110). <i>Physical Review B</i> , 2006, 74, .	3.2	19
71	Coverage dependence of the sticking probability of ethylene on Ag(410). <i>Surface Science</i> , 2005, 587, 110-120.	1.9	11
72	Heterolytic photolysis of O <sub>2</sub> on Ag(100). <i>Chemical Physics Letters</i> , 2005, 404, 336-340.	2.6	5

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73	Conformations and controlled manipulation of a long molecular wire on Cu(111). Surface Science, 2005, 585, 38-46.	1.9	7
74	Dynamics of propene adsorption on Ag(001). Journal of Chemical Physics, 2005, 122, 134701.	3.0	7
75	Molecular Ordering and Adsorbate Induced Faceting in the Ag{110}-(S)-Glutamic Acid System. Langmuir, 2005, 21, 9468-9475.	3.5	51
76	Coverage dependence of the dynamics of ethylene adsorption on Ag(210). Journal of Physics Condensed Matter, 2004, 16, S2929-S2936.	1.8	4
77	Enhanced Reactivity at Metal-Oxide Interface: Water Interaction with MgO Ultrathin Films. Journal of Physical Chemistry B, 2004, 108, 7771-7778.	2.6	40
78	Scattering of Surface State Electrons at Large Organic Molecules. Physical Review Letters, 2004, 93, 056103.	7.8	63
79	Steering in non-dissociative chemisorption: ethylene on Ag(410). Chemical Physics Letters, 2003, 382, 605-610.	2.6	5
80	Oxygen vibrations in O <sub>2</sub> /Ag(001). Surface Science, 2003, 530, 26-36.	1.9	17
81	Interaction of ethylene and oxygen with stepped Ag surfaces. Journal of Electron Spectroscopy and Related Phenomena, 2003, 129, 157-164.	1.7	6
82	Enhanced hydrolysis at monolayer MgO films. Journal of Chemical Physics, 2003, 119, 12053-12056.	3.0	27
83	MgO/Ag(100): Confined vibrational modes in the limit of ultrathin films. Physical Review B, 2003, 67, .	3.2	41
84	Direct Access to Subsurface Sites in Gas-Surface O <sub>2</sub> /Ag(210) Interactions using Supersonic Molecular Beams. Physical Review Letters, 2003, 90, 228302.	7.8	44
85	Surface plasmon dispersion on sputtered and nanostructured Ag(001). Physical Review B, 2003, 67, .	3.2	18
86	Ethylene Adsorption on Clean and Oxygen Covered Flat and Stepped Ag(001). International Journal of Modern Physics B, 2003, 17, 2497-2526.	2.0	17
87	Chemisorption dynamics in the presence of well defined surface defects. Chemical Physics of Solid Surfaces, 2003, , 223-246.	0.3	3
88	Dynamics of the interaction of O <sub>2</sub> with stepped and damaged Ag surfaces. Journal of Physics Condensed Matter, 2003, 15, 2231-2231.	1.8	0
89	Real-time XPS investigation of the impact-energy dependence of C <sub>2</sub> H <sub>4</sub> adsorption on Ag(100). Physical Review B, 2002, 66, .	3.2	17
90	Dynamics of the interaction of O <sub>2</sub> with stepped and damaged Ag surfaces. Journal of Physics Condensed Matter, 2002, 14, 6065-6079.	1.8	12

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91	Dynamics of the gas-surface interaction in presence of well defined defects. Surface Science, 2002, 502-503, 331-340.	1.9	16
92	Formation of channels for oxygen migration towards subsurface sites by CO oxidation and growth of the surface oxide phase on Ag(). Surface Science, 2002, 506, 213-222.	1.9	23
93	Substrate reconstruction and electronic surface states: Ag(001). Surface Science, 2001, 486, 65-72.	1.9	20
94	Transient CO adsorption and the catalytic properties of surfaces. Physical Review B, 2001, 63, .	3.2	24
95	Oxygen interaction with disordered and nanostructured Ag(001) surfaces. Journal of Chemical Physics, 2001, 115, 3346-3355.	3.0	47
96	Role of Steps and of Terrace Width in Gas-Surface Interaction: O <sub>2</sub> /Ag(410). Physical Review Letters, 2001, 87, 276101.	7.8	50
97	Switching from molecular to dissociative adsorption with vibrational energy: ethylene on Ag(001). Chemical Physics Letters, 2000, 331, 177-183.	2.6	18
98	Effect of surface interband transitions on surface plasmon dispersion: O/Ag(001). Physical Review B, 2000, 61, 7324-7327.	3.2	20
99	Phase transition of dissociatively adsorbed oxygen on Ag(001). Physical Review B, 2000, 61, 213-227.	3.2	108
100	Tuning surface reactivity by in situ surface nanostructuring. Journal of Chemical Physics, 2000, 112, 6840-6843.	3.0	43