

# Letizia Savio

## List of Publications by Year in descending order

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100  
papers

2,457  
citations

236925

25  
h-index

233421

45  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-energy acoustic plasmons at metal surfaces. <i>Nature</i> , 2007, 448, 57-59.	27.8	189
2	Carbon Dioxide Hydrogenation on Ni(110). <i>Journal of the American Chemical Society</i> , 2008, 130, 11417-11422.	13.7	151
3	Bridging the structure gap: Chemistry of nanostructured surfaces at well-defined defects. <i>Surface Science Reports</i> , 2008, 63, 101-168.	7.2	120
4	Hydrogen-Assisted Transformation of CO <sub>2</sub> on Nickel: The Role of Formate and Carbon Monoxide. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 402-406.	4.6	111
5	Phase transition of dissociatively adsorbed oxygen on Ag(001). <i>Physical Review B</i> , 2000, 61, 213-227.	3.2	108
6	Interaction of carbon dioxide with Ni(110): A combined experimental and theoretical study. <i>Physical Review B</i> , 2007, 76, .	3.2	78
7	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
8	Interaction of rotationally aligned and of oriented molecules in gas phase and at surfaces. <i>Progress in Surface Science</i> , 2010, 85, 92-160.	8.3	71
9	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
10	Scattering of Surface State Electrons at Large Organic Molecules. <i>Physical Review Letters</i> , 2004, 93, 056103.	7.8	63
11	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
12	Molecular Ordering and Adsorbate Induced Faceting in the Ag{110}-(S)-Glutamic Acid System. <i>Langmuir</i> , 2005, 21, 9468-9475.	3.5	51
13	Role of Steps and of Terrace Width in Gas-Surface Interaction: O <sub>2</sub> /Ag(410). <i>Physical Review Letters</i> , 2001, 87, 276101.	7.8	50
14	Oxygen interaction with disordered and nanostructured Ag(001) surfaces. <i>Journal of Chemical Physics</i> , 2001, 115, 3346-3355.	3.0	47
15	Direct Access to Subsurface Sites in Gas-Surface O <sub>2</sub> /Ag(210) Interactions using Supersonic Molecular Beams. <i>Physical Review Letters</i> , 2003, 90, 228302.	7.8	44
16	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
17	Tuning surface reactivity by in situ surface nanostructuring. <i>Journal of Chemical Physics</i> , 2000, 112, 6840-6843.	3.0	43
18	MgO/Ag(100): Confined vibrational modes in the limit of ultrathin films. <i>Physical Review B</i> , 2003, 67, .	3.2	41

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19	Enhanced Reactivity at Metal-Oxide Interface: Water Interaction with MgO Ultrathin Films. Journal of Physical Chemistry B, 2004, 108, 7771-7778.	2.6	40
20	X-ray photoemission study of the temperature-dependent CuO formation on Cu(410) using an energetic O <sub>2</sub> molecular beam. Physical Review B, 2007, 75, .	3.2	39
21	Enhanced Chemical Reactivity of Pristine Graphene Interacting Strongly with a Substrate: Chemisorbed Carbon Monoxide on Graphene/Nickel(111). ChemCatChem, 2015, 7, 2328-2331.	3.7	36
22	How Growing Conditions and Interfacial Oxygen Affect the Final Morphology of MgO/Ag(100) Films. Journal of Physical Chemistry C, 2014, 118, 26091-26102.	3.1	31
23	Self-Assembly of (S)-Glutamic Acid on Ag(100): A Combined LT-STM and Ab Initio Investigation. Langmuir, 2010, 26, 7208-7215.	3.5	29
24	Enhanced hydrolysis at monolayer MgO films. Journal of Chemical Physics, 2003, 119, 12053-12056.	3.0	27
25	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
26	Correlating hydrophobicity to surface chemistry of microstructured aluminium surfaces. Applied Surface Science, 2021, 542, 148574.	6.1	27
27	Transient CO adsorption and the catalytic properties of surfaces. Physical Review B, 2001, 63, .	3.2	24
28	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
29	From Vanadia Nanoclusters to Ultrathin Films on TiO <sub>2</sub> (110): Evolution of the Yield and Selectivity in the Ethanol Oxidation Reaction. ACS Catalysis, 2014, 4, 3715-3723.	11.2	23
30	Stoichiometry-Dependent Chemical Activity of Supported MgO(100) Films. Journal of Physical Chemistry A, 2011, 115, 7161-7168.	2.5	21
31	Effect of surface interband transitions on surface plasmon dispersion: O/Ag(001). Physical Review B, 2000, 61, 7324-7327.	3.2	20
32	Substrate reconstruction and electronic surface states: Ag(001). Surface Science, 2001, 486, 65-72.	1.9	20
33	(S)-Glutamic Acid on Ag(100): Self-Assembly in the Nonzwitterionic Form. Langmuir, 2011, 27, 2393-2404.	3.5	20
34	Synthesis of graphene nanoribbons with a defined mixed edge-site sequence by surface assisted polymerization of (1,6)-dibromopyrene on Ag(110). Nanoscale, 2016, 8, 17843-17853.	5.6	20
35	STM study of hydroxyl formation at O <sup>*</sup> -Ag(110). Physical Review B, 2006, 74, .	3.2	19
36	Band structure effects on the Be(0001) acoustic surface plasmon energy dispersion. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1307-1311.	1.8	19

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37	Acoustic Surface Plasmon Dispersion on Nanostructured Cu(111). <i>Plasmonics</i> , 2012, 7, 323-329.	3.4	19
38	Unraveling the Self-Assembly of the ( <i>S</i> )-Glutamic Acid Flower Structure on Ag(100). <i>Langmuir</i> , 2013, 29, 7876-7884.	3.5	19
39	Switching from molecular to dissociative adsorption with vibrational energy: ethylene on Ag(001). <i>Chemical Physics Letters</i> , 2000, 331, 177-183.	2.6	18
40	Surface plasmon dispersion on sputtered and nanostructured Ag(001). <i>Physical Review B</i> , 2003, 67, .	3.2	18
41	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
42	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
43	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
44	Tuning the Stoichiometry of Surface Oxide Phases by Step Morphology. $\frac{511}{T_j} \frac{ETQq0}{00rgBT} \frac{1}{\text{Overlock } 10 \text{ Tf } 50 \text{ 467 Td}}$	7.8	18
45	Chemisorption of CO on N-doped graphene on Ni(111). <i>Applied Surface Science</i> , 2018, 428, 775-780.	6.1	18
46	Real-time XPS investigation of the impact-energy dependence of C <sub>2</sub> H <sub>4</sub> adsorption on Ag(100). <i>Physical Review B</i> , 2002, 66, .	3.2	17
47	Oxygen vibrations in O <sub>2</sub> /Ag(001). <i>Surface Science</i> , 2003, 530, 26-36.	1.9	17
48	Ethylene Adsorption on Clean and Oxygen Covered Flat and Stepped Ag(001). <i>International Journal of Modern Physics B</i> , 2003, 17, 2497-2526.	2.0	17
49	Dynamics of the gas-surface interaction in presence of well defined defects. <i>Surface Science</i> , 2002, 502-503, 331-340.	1.9	16
50	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
51	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
52	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
53	Accretion disc origin of the Earth's water. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110585.	3.4	14
54	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

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55	Dynamics of Ethene Adsorption on Clean and C-Contaminated Cu(410). Journal of Physical Chemistry C, 2009, 113, 20875-20880.	3.1	13
56	Anisotropic Dispersion and Partial Localization of Acoustic Surface Plasmons on an Atomically Stepped Surface: Au(788). Physical Review Letters, 2014, 113, 186804.	7.8	13
57	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
58	Common fingerprint of hydroxylated non-polar steps on MgO smoke and MgO films. Surface Science, 2010, 604, 252-257.	1.9	12
59	Coverage dependence of the sticking probability of ethylene on Ag(410). Surface Science, 2005, 587, 110-120.	1.9	11
60	On-surface synthesis of different boron-nitrogen-carbon heterostructures from dimethylamine borane. Carbon, 2017, 120, 185-193.	10.3	11
61	Adatom Extraction from Pristine Metal Terraces by Dissociative Oxygen Adsorption: Combined STM and Density Functional Theory Investigation of $O$ on Ag(110). <i>Journal of Physical Chemistry C</i> , 2018, 122, 12345-12355.	7.8	11
62	High-resolution Electron Energy Loss Spectroscopy Study of O-Cu(410). Journal of Physical Chemistry B, 2007, 111, 1679-1683.	2.6	10
63	Hydrogen-induced nanotunnel opening within semiconductor subsurface. Nature Communications, 2013, 4, .	12.8	10
64	Interaction of a long molecular wire with a nanostructured surface: Violet Landers on Cu(211). Chemical Physics Letters, 2006, 428, 331-337.	2.6	9
65	Pressure and temperature dependence of cuprous oxide nucleation on Cu(410). Journal of Physics Condensed Matter, 2007, 19, 305022.	1.8	9
66	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
67	Synthesis of corrugated C-based nanostructures by Br-corannulene oligomerization. Physical Chemistry Chemical Physics, 2018, 20, 26161-26172.	2.8	9
68	Influence of Defects and Heteroatoms on the Chemical Properties of Supported Graphene Layers. Coatings, 2022, 12, 397.	2.6	9
69	Graphene growth on Ni (1 1 1) by CO exposure at near ambient pressure. Chemical Physics Letters, 2021, 774, 138596.	2.6	8
70	Conformations and controlled manipulation of a long molecular wire on Cu(111). Surface Science, 2005, 585, 38-46.	1.9	7
71	Dynamics of propene adsorption on Ag(001). Journal of Chemical Physics, 2005, 122, 134701.	3.0	7
72	DFT Atomistic Thermodynamics Applied To Elucidate the Driving Force behind Glutamic Acid Self-Assemblies on Silver (100) Surface. Journal of Physical Chemistry C, 2014, 118, 29874-29879.	3.1	7

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73	Interaction of ethylene and oxygen with stepped Ag surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 129, 157-164.	1.7	6
74	Stereoselectivity in catalytic reactions: CO oxidation on Pd(100) by rotationally aligned O <sub>2</sub> molecules. <i>European Physical Journal B</i> , 2010, 75, 81-87.	1.5	6
75	Coupling scanning tunneling microscope and supersonic molecular beams: A unique tool for in situ investigation of the morphology of activated systems. <i>Review of Scientific Instruments</i> , 2012, 83, 093703.	1.3	6
76	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
77	Spectroscopic Evidence for Neutral and Anionic Adsorption of (<i>S</i>)-Glutamic Acid on Ag(111). <i>Langmuir</i> , 2013, 29, 6867-6875.	3.5	6
78	Deciphering complex features in STM images of O adatoms on Ag(110). <i>Physical Review B</i> , 2018, 98, .	3.2	6
79	Steering in non-dissociative chemisorption: ethylene on Ag(410). <i>Chemical Physics Letters</i> , 2003, 382, 605-610.	2.6	5
80	Heterolytic photolysis of O <sub>2</sub> on Ag(100). <i>Chemical Physics Letters</i> , 2005, 404, 336-340.	2.6	5
81	Initial sticking probability of O <sub>2</sub> on Cu(410). <i>Surface Science</i> , 2008, 602, 2689-2692.	1.9	5
82	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
83	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
84	Reversible and irreversible structural changes in FeO/Ru(O <sup>1</sup> ) model catalyst subjected to atomic oxygen. <i>Applied Surface Science</i> , 2020, 528, 146032.	6.1	5
85	Boudouard reaction under graphene cover on Ni(1 1 1). <i>Applied Surface Science</i> , 2022, 599, 154065.	6.1	5
86	Coverage dependence of the dynamics of ethylene adsorption on Ag(210). <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2929-S2936.	1.8	4
87	Chemisorption dynamics in the presence of well defined surface defects. <i>Chemical Physics of Solid Surfaces</i> , 2003, , 223-246.	0.3	3
88	Supersonic Molecular Beams Studies of Surfaces. <i>Springer Series in Surface Sciences</i> , 2013, , 1-23.	0.3	3
89	Prominence of Terahertz Acoustic Surface Plasmon Excitation in Gasâ€“Surface Interaction with Metals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9894-9898.	4.6	3
90	Phonons in Thin Oxide Films. <i>Springer Series in Materials Science</i> , 2016, , 169-199.	0.6	2

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91	Influence of Defects on Adsorption Model Studies With Stepped Surfaces. , 2018, , 138-165.		2
92	Morphological characterization and electronic properties of pristine and oxygen-exposed graphene nanoribbons on Ag(110). Physical Chemistry Chemical Physics, 2021, 23, 7926-7937.	2.8	2
93	Adsorption of Glutamic acid on clean and hydroxylated rutile TiO <sub>2</sub> (110): an XPS and NEXAFS investigation. Journal of Physics Condensed Matter, 2022, , .	1.8	2
94	Poisoning and non-poisoning oxygen on Cu(410). Journal of Physics Condensed Matter, 2011, 23, 484001.	1.8	1
95	Sticking Probability and Reactivity of Hyperthermal O <sub>2</sub> Molecules Impinging on CO Pre-covered Pd(100): Effect of Rotational States with K&A1. Topics in Catalysis, 2015, 58, 580-590.	2.8	1
96	Comment on "Adsorption of hydrogen and hydrocarbon molecules on SiC(001)" by Pollmann et al. (Surf. Sci. Rep. 69 (2014) 55-104). Surface Science, 2016, 644, L170-L171.	1.9	1
97	2D Ni Nanoclusters on Ultrathin MgO/Ag(100). Journal of Physical Chemistry C, 2020, 124, 482-488.	3.1	1
98	Vibrational fingerprint of the catalytically-active FeO <sub>2-x</sub> iron oxide phase on Pt(111). Applied Surface Science, 2020, 512, 145774.	6.1	1
99	Self-assembly of Organic Molecules at Metal Surfaces. Springer Handbooks, 2020, , 967-1004.	0.6	1
100	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