

Claudio Goletti

List of Publications by Year in descending order

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103
papers

1,467
citations

304743

22
h-index

434195

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104
all docs

104
docs citations

104
times ranked

1171
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Ordering at the Interface Between Liquid Water and Rutile TiO ₂ (110). <i>Advanced Materials Interfaces</i> , 2015, 2, 1500246.	3.7	68
2	Characterization and design of porphyrins-based broad selectivity chemical sensors for electronic nose applications. <i>Sensors and Actuators B: Chemical</i> , 1998, 52, 162-168.	7.8	65
3	The application of reflectance anisotropy spectroscopy to organics deposition. <i>Organic Electronics</i> , 2004, 5, 73-81.	2.6	40
4	Surface-Enhanced Polymerization via Schiff-Base Coupling at the Solid-Water Interface under pH Control. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19228-19235.	3.1	39
5	Highly sensitive optical monitoring of molecular film growth by organic molecular beam deposition. <i>Applied Physics Letters</i> , 2003, 83, 4146-4148.	3.3	37
6	Origin of the optical anisotropy of GaAs (001). <i>Surface Science</i> , 1999, 441, 26-32.	1.9	35
7	Thickness Dependence of the Optical Anisotropy for Porphyrin Octaester Langmuir-Schaefer Films. <i>Langmuir</i> , 2002, 18, 6881-6886.	3.5	34
8	Spontaneous deposition of amphiphilic porphyrin films on glass. Electronic supplementary information (ESI) available: detailed kinetic studies and procedures, and aggregation studies on 1H ₂ and 2H ₂ . See http://www.rsc.org/suppdata/nj/b4/b403591g/ . <i>New Journal of Chemistry</i> , 2004, 28, 1123.	2.8	34
9	Polarization dependence of optical transitions in GaP(1 1 0) and GaAs(1 1 0) surfaces studied with surface differential reflectivity. <i>Solid State Communications</i> , 1987, 62, 833-834.	1.9	33
10	Infrared surface absorption in Si(111)2 \times 1 observed with reflectance anisotropy spectroscopy. <i>Physical Review B</i> , 2002, 66, .	3.2	33
11	Strategies for two-dimensional growth of organic molecular films. <i>Chemical Physics</i> , 2006, 325, 193-206.	1.9	33
12	Site-Sensitive Gas Sensing and Analyte Discrimination in Langmuir-Blodgett Porphyrin Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8189-8194.	3.1	33
13	Determination of the complex dielectric function of Si(111) 2 \times 1, GaAs(110) and GaP(110) surfaces by polarized surface differential reflectivity. <i>Physica Scripta</i> , 1988, 38, 199-203.	2.5	29
14	Cu(110) Surface in Hydrochloric Acid Solution: Potential Dependent Chloride Adsorption and Surface Restructuring. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1782-1790.	3.1	29
15	Optical anisotropy of Langmuir-Blodgett saphyrin films. <i>Applied Physics Letters</i> , 2000, 77, 3164-3166.	3.3	28
16	Coexistence of Negatively and Positively Buckled Isomers on n-Doped Si(111)2 \times 1. <i>Physical Review Letters</i> , 2011, 106, 067601.	7.8	27
17	Dielectric functions of Si(111)2 \times 1, Ge(111)2 \times 1, GaAs(110) and GaP(110) surfaces obtained by polarized surface differential reflectivity. <i>Surface Science</i> , 1987, 189-190, 1023-1027.	1.9	26
18	Optical anisotropy of porphyrin Langmuir-Blodgett films. <i>Surface Science</i> , 2002, 501, 31-36.	1.9	26

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19	Chemical sensing materials characterization by Kelvin probe technique. <i>Sensors and Actuators B: Chemical</i> , 2000, 70, 254-262.	7.8	25
20	Analysis of InAs(001) surfaces by reflectance anisotropy spectroscopy. <i>Physical Review B</i> , 2001, 64, .	3.2	25
21	Tuning the growth mode in organic molecular-beam epitaxy. <i>Physical Review B</i> , 2005, 71, .	3.2	23
22	Probing Two-Dimensional vs Three-Dimensional Molecular Aggregation in Metal-Free Tetraphenylporphyrin Thin Films by Optical Anisotropy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15649-15655.	3.1	23
23	Sum rules in surface reflectivity: the case of Ge(111)-(2 \times 1) and Si(111)-(2 \times 1). <i>Surface Science</i> , 2000, 453, 112-118.	1.9	22
24	Surface versus bulk contributions from reflectance anisotropy and electron energy loss spectra of the GaAs(001) $\sqrt{3}\times\sqrt{3}$ surface. <i>Physical Review B</i> , 2003, 68, .	3.2	22
25	Surface optical transitions on cleaved InP(110). <i>Surface Science</i> , 1989, 211-212, 552-556.	1.9	21
26	A reflectance anisotropy spectroscopy study of GaSb(100) $\sqrt{2}\times\sqrt{2}$ surfaces prepared by Sb decapping. <i>Surface Science</i> , 1996, 352-354, 771-775.	1.9	21
27	Cobalt atoms drive the anchoring of Co-TPP molecules to the oxygen-passivated Fe(001) surface. <i>Applied Surface Science</i> , 2020, 505, 144213.	6.1	21
28	Optical resonances of indium islands on GaAs(001) observed by reflectance anisotropy spectroscopy. <i>Physical Review B</i> , 2003, 67, .	3.2	20
29	Optical gap between dangling-bond states of a single-domain diamond C(111)- $\sqrt{3}\times\sqrt{3}$ by reflectance anisotropy spectroscopy. <i>Europhysics Letters</i> , 2007, 79, 57002.	2.0	20
30	Surface states at the GaAs(001) $\sqrt{2}\times\sqrt{2}$ surface. <i>Physical Review B</i> , 2004, 69, .	3.2	19
31	Direct observation of the epitaxial growth of molecular layers on molecular single crystals. <i>Applied Physics Letters</i> , 2006, 89, 261905.	3.3	19
32	Epitaxial growth of organic heterostructures: Morphology, structure, and growth mode. <i>Surface Science</i> , 2007, 601, 2571-2575.	1.9	18
33	Incipient Anion Intercalation of Highly Oriented Pyrolytic Graphite Close to the Oxygen Evolution Potential: A Combined X-ray Photoemission and Raman Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1790-1797.	3.1	18
34	Optical anisotropies of InP(001) surfaces. <i>Journal of Applied Physics</i> , 1997, 81, 3611-3615.	2.5	17
35	Kelvin probe and scanning tunneling microscope characterization of Langmuir-Blodgett saphyrin films. <i>Applied Physics Letters</i> , 1999, 75, 1237-1239.	3.3	17
36	Pseudomorphic growth of organic semiconductor thin films driven by incommensurate epitaxy. <i>Applied Physics Letters</i> , 2009, 94, 073307.	3.3	17

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37	Reflectance anisotropy spectroscopy: A probe to explore organic epitaxial growth. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 1029-1034.	2.1	16
38	Intermixing and buried interfacial structure in strained Ge/Si(105) facets. <i>Physical Review B</i> , 2013, 88, .	3.2	16
39	Surface-state band gap of InP(110) by polarized surface differential reflectivity. <i>Physical Review B</i> , 1991, 44, 8327-8329.	3.2	15
40	Optical transitions and sum rules at clean semiconductor surfaces. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S4289-S4300.	1.8	15
41	A combined scanning tunneling microscopy and reflectance anisotropy spectroscopy investigation of tetraphenylporphyrin deposited on graphite. <i>Surface Science</i> , 2007, 601, 2607-2610.	1.9	15
42	Antimony-induced optical transitions of the Sb/GaAs(110) interface. <i>Solid State Communications</i> , 1992, 84, 421-425.	1.9	14
43	Schottky barrier and surface photovoltage induced by synchrotron radiation in GaP(110)/Ag. <i>Physical Review B</i> , 1993, 47, 13520-13526.	3.2	14
44	Kelvin probe investigation of the thickness effects in Langmuir-Blodgett films of pyrrolic macrocycles sensitive to volatile compounds in gas phase. <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 183-187.	7.8	14
45	Optical anisotropy and gas sensing properties of ordered porphyrin films. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 2714-2719.	1.5	14
46	Optical anisotropy of ordered Sb layers on III-V (110) surfaces. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 70, 507-519.	0.6	13
47	Optical anisotropy readout in solid-state porphyrins for the detection of volatile compounds. <i>Applied Physics Letters</i> , 2009, 95, 091906.	3.3	13
48	Activated chemisorption of oxygen on Si(111)-2 × 1. <i>Surface Science</i> , 1996, 356, 68-74.	1.9	12
49	Ge/GaAs(001) interface formation investigated by reflectance anisotropy spectroscopy. <i>Physical Review B</i> , 1999, 59, 10657-10661.	3.2	12
50	Optical characterization of indium-terminated GaAs(001) surfaces. <i>Physical Review B</i> , 2000, 61, 1681-1684.	3.2	12
51	In situ optical investigation of oligothiophene layers grown by organic molecular beam epitaxy. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S4393-S4402.	1.8	12
52	Evidence of graphite blister evolution during the anion de-intercalation process in the cathodic regime. <i>Applied Surface Science</i> , 2020, 504, 144440.	6.1	11
53	Clean and oxygen covered InP(110) surfaces differential reflectivity. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1991, 9, 1026-1028.	2.1	10
54	Polarization-dependent surface transitions at (110). <i>Solid State Communications</i> , 1993, 85, 497-500.	1.9	10

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55	Growth-related properties and postgrowth phenomena in organic molecular thin films. <i>Journal of Chemical Physics</i> , 2007, 127, 244703.	3.0	10
56	Oxygen chemisorption on cleaved InP(110) surfaces studied with surface differential reflectivity. <i>Physical Review B</i> , 1991, 43, 6757-6759.	3.2	9
57	Langmuir-Blodgett films of a modified tetraphenylporphyrin. <i>Materials Science and Engineering C</i> , 2002, 22, 219-225.	7.3	9
58	In situ scanning tunneling microscopy study of Ca-modified rutile TiO ₂ (110) in bulk water. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 438-443.	2.8	9
59	Sum rules in surface differential reflectivity and reflectance anisotropy spectroscopies. <i>Applied Surface Science</i> , 2001, 175-176, 777-782.	6.1	8
60	How to build an educational bridge. <i>Nature Nanotechnology</i> , 2017, 12, 1104-1104.	31.5	8
61	The effect of cyclic voltammetry speed on anion intercalation in HOPG. <i>Surface Science</i> , 2019, 681, 111-115.	1.9	8
62	Optical anisotropy of oxidized InAs(001) surfaces. <i>Surface Science</i> , 2002, 515, 281-286.	1.9	7
63	Infrared reflectance anisotropy spectroscopy of Si(111)-1 \times 1: Surface excitons and polarons. <i>Physical Review B</i> , 2005, 72, .	3.2	7
64	Real time detection of the epitaxial growth of oligothiophene layers by reflectance anisotropy spectroscopy. <i>Surface Science</i> , 2007, 601, 4488-4491.	1.9	7
65	The -reconstructed cleavage surface of diamond: A challenging test for experiment and theory. <i>Superlattices and Microstructures</i> , 2009, 46, 227-233.	3.1	7
66	Formation of extended thermal etch pits on annealed Ge wafers. <i>Applied Surface Science</i> , 2018, 462, 86-94.	6.1	7
67	A Reflectance Anisotropy Spectroscopy Investigation of Porphyrin Langmuir-Blodgett Films. <i>Physica Status Solidi A</i> , 2001, 188, 1339-1344.	1.7	6
68	Ge growth on GaAs(001) surfaces studied by reflectance anisotropy spectroscopy. <i>Physical Review B</i> , 2002, 66, .	3.2	6
69	AIRFLY: Measurement of the Air Fluorescence Radiation Induced by Electrons. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 150, 186-189.	0.4	6
70	AIRFLY: Measurement of the uorescence yield in atmospheric gases. <i>European Physical Journal D</i> , 2006, 56, A361-A367.	0.4	6
71	Persistence of the Co-tetra-phenyl-porphyrin HOMO-LUMO features when a single organic layer is grown onto Cu(110)-(2 \times 1)O. <i>Applied Surface Science</i> , 2020, 514, 145891.	6.1	6
72	Structure-dependent optical anisotropy of porphyrin Langmuir-Schaefer films. <i>Surface Science</i> , 2002, 521, L645-L649.	1.9	5

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73	Charge transfer between isomer domains on n+-doped Si(111)-2 Å ⁻¹ : energetic stabilization. Journal of Physics Condensed Matter, 2012, 24, 354009.	1.8	5
74	Corroles at the <i>Real</i> Solid-Liquid Interface: In Situ STM Investigation of a Water-Soluble Corrole Layer Deposited onto Au(111). Chemistry - A European Journal, 2018, 24, 17538-17544.	3.3	5
75	Tunable Supramolecular Chirogenesis in the Self-Assembling of Amphiphilic Porphyrin Triggered by Chiral Amines. International Journal of Molecular Sciences, 2020, 21, 8557.	4.1	5
76	Reflectance anisotropy spectroscopy of strain-engineered GaAsBi alloys. Applied Physics Letters, 2022, 120, .	3.3	5
77	Surface reflectance anisotropy of indium-terminated GaAs(100) surfaces. Surface Science, 1997, 377-379, 404-408.	1.9	4
78	Optical absorption measurements of electron quantum confinement in $\text{Si}_{1-x}\text{Ge}_x$ chains. Physical Review B, 2010, 82, .	3.2	4
79	Reflectance anisotropy spectroscopy applied to organic thin films: The role of the substrate. Organic Electronics, 2018, 62, 102-106.	2.6	4
80	Temperature Effects on the HOPG Intercalation Process. Condensed Matter, 2019, 4, 23.	1.8	4
81	Nature of Optical Excitations in Porphyrin Crystals: A Joint Experimental and Theoretical Study. Journal of Physical Chemistry Letters, 2021, 12, 869-875.	4.6	4
82	Substrate mediated interaction of terbium(ⁱⁱⁱ) double-deckers with the TiO ₂ (110) surface. Physical Chemistry Chemical Physics, 2021, 23, 12060-12067.	2.8	4
83	Nearly flat bands at the GaP(110) surface. Physical Review B, 1995, 52, 10721-10724.	3.2	3
84	Optical anisotropy of Cs nanostructures on InV(110) surfaces. Journal of Physics Condensed Matter, 2004, 16, S4353-S4365.	1.8	3
85	Dispersion of surface bands and chain coupling at Si and Ge(111) surfaces. Surface Science, 2008, 602, 1423-1427.	1.9	3
86	Optical Anisotropy of Thin and Ultrathin Porphyrin Layers. Topics in Heterocyclic Chemistry, 2014, , 53-115.	0.2	3
87	Ordered assembling of Co tetra phenyl porphyrin on oxygen-passivated Fe(001): from single to multilayer films. EPJ Web of Conferences, 2020, 230, 00014.	0.3	3
88	Perimeter fractal dimension analysis of corrole islands on Au(111) at the solid-water interface. Journal of Porphyrins and Phthalocyanines, 2020, 24, 959-963.	0.8	3
89	Polarized surface differential reflectivity and oxygen chemisorption on InP(110) surfaces. Surface Science, 1991, 251-252, 281-285.	1.9	2
90	Confinement effects in ĩ-bonded chains at group IV semiconductor (111) surfaces. Journal of Physics Condensed Matter, 2013, 25, 485008.	1.8	2

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91	Islanding, growth mode and ordering in Si heteroepitaxy on Ge(001) substrates structured by thermal annealing. <i>Surface Science</i> , 2019, 683, 31-37.	1.9	2
92	Growth of Corrole Films from Solution: A Nanometer-Scale Study at the Real Solid-Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11540-11547.	3.1	2
93	Unveiling the robustness of porphyrin crystalline nanowires toward aggressive chemicals. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	2
94	Schottky barrier at the Au/Gap (110) interface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 2433-2436.	2.1	1
95	Optical properties of bismuth-terminated GaAs(110) surfaces. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1998, 20, 975-980.	0.4	1
96	Detection of surface states anisotropies at GaAs(001)(2 Å– 4) decapped surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 2664-2670.	1.5	1
97	In-situ study of the interface formation in organic multilayers. <i>Superlattices and Microstructures</i> , 2008, 44, 550-555.	3.1	1
98	Early oxidation stages of the strained Ge/Si(105) surface: A reflectance anisotropy spectroscopy study. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 87-94.	1.5	1
99	Reflectance Anisotropy Spectroscopy. , 2018, , 413-420.		1
100	In situ atomic force microscopy: the case study of graphite immersed in aqueous NaOH electrolyte. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	1
101	Surfaces and Interfaces, <i>Electronic Structure of</i> . , 2005, , 133-144.		1
102	STUDY OF THE OPTICAL ANISOTROPY OF LANGMUIR-BLODGETT FILMS OF EXTENDED PYRROLIC MACROCYCLES USED IN GAS SENSORS DEVICES. , 2000, , .		0
103	Optical Anisotropy of Clean and Oxidized GaAs(001)-4 Å– 2. , 2001, , .		0