

Francesco Allegretti

List of Publications by Year in descending order

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115
papers

3,222
citations

136950

32
h-index

182427

51
g-index

117
all docs

117
docs citations

117
times ranked

3726
citing authors

#	ARTICLE	IF	CITATIONS
1	Homo-coupling of terminal alkynes on a noble metal surface. Nature Communications, 2012, 3, 1286.	12.8	350
2	Surface-assisted Dehydrogenative Homocoupling of Porphine Molecules. Journal of the American Chemical Society, 2014, 136, 9346-9354.	13.7	140
3	Adsorption Bond Length for H ₂ O on TiO ₂ (110): A Key Parameter for Theoretical Understanding. Physical Review Letters, 2005, 95, 226104.	7.8	110
4	In vacuo interfacial tetrapyrrole metallation. Chemical Society Reviews, 2016, 45, 1629-1656.	38.1	97
5	Low-dimensional oxide nanostructures on metals: Hybrid systems with novel properties. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 1-16.	1.2	95
6	<i>N</i> -Heterocyclic carbenes on close-packed coinage metal surfaces: bis-carbene metal adatom bonding scheme of monolayer films on Au, Ag and Cu. Chemical Science, 2017, 8, 8301-8308.	7.4	87
7	How Surface Bonding and Repulsive Interactions Cause Phase Transformations: Ordering of a Prototype Macrocyclic Compound on Ag(111). ACS Nano, 2013, 7, 3139-3149.	14.6	85
8	The Role of Kinetics versus Thermodynamics in Surface-Assisted Ullmann Coupling on Gold and Silver Surfaces. Journal of the American Chemical Society, 2019, 141, 4824-4832.	13.7	83
9	<i>l</i> -Cysteine on Ag(111): A Combined STM and X-ray Spectroscopy Study of Anchorage and Deprotonation. Journal of Physical Chemistry C, 2012, 116, 20356-20362.	3.1	75
10	Investigating the molecule-substrate interaction of prototypic tetrapyrrole compounds: Adsorption and self-metalation of porphine on Cu(111). Journal of Chemical Physics, 2013, 138, 154710.	3.0	64
11	Formation of Mn_3O_4 on Cu(111) surface. Physical Review B, 2007, 76, .	3.2	62
12	Water does partially dissociate on the perfect TiO ₂ (110) surface: A quantitative structure determination. Physical Review B, 2012, 86, .	3.2	60
13	Synthesis of Pyrene-Fused Pyrazaacenes on Metal Surfaces: Toward One-Dimensional Conjugated Nanostructures. ACS Nano, 2016, 10, 1033-1041.	14.6	60
14	Surface-Assisted Cyclodehydrogenation; Break the Symmetry, Enhance the Selectivity. Chemistry - A European Journal, 2015, 21, 12285-12290.	3.3	57
15	Corrugation in the Weakly Interacting Hexagonal-BN/Cu(111) System: Structure Determination by Combining Noncontact Atomic Force Microscopy and X-ray Standing Waves. ACS Nano, 2017, 11, 9151-9161.	14.6	56
16	Chemical Transformations Drive Complex Self-Assembly of Uracil on Close-Packed Coinage Metal Surfaces. ACS Nano, 2012, 6, 2477-2486.	14.6	55
17	Direct quantitative identification of the surface trans-effect. Chemical Science, 2016, 7, 5647-5656.	7.4	51
18	Epitaxial stabilization of MnO(111) overlayers on a Pd(100) surface. Physical Review B, 2007, 75, .	3.2	47

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19	Structural and vibrational properties of two-dimensional Mn on Pd(100): Experiments and density functional theory calculations. <i>Physical Review B</i> , 2009, 79, .	3.2	42
20	Self-Terminating Protocol for an Interfacial Complexation Reaction <i>in Vacuo</i> by Metal-Organic Chemical Vapor Deposition. <i>ACS Nano</i> , 2013, 7, 4520-4526.	14.6	41
21	The adsorption structure of furan on Pd(111). <i>Surface Science</i> , 2008, 602, 2524-2531.	1.9	39
22	Adsorption and Dissociation of CO on Bare and Ni-Decorated Stepped Rh(553) Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 942-949.	3.1	39
23	Unusual Deprotonated Alkynyl Hydrogen Bonding in Metal-Supported Hydrocarbon Assembly. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9669-9679.	3.1	39
24	Quantitative determination of the local structure of thymine on Cu(110) using scanned-energy mode photoelectron diffraction. <i>Surface Science</i> , 2007, 601, 3611-3622.	1.9	38
25	Cobalt oxide nanolayers on Pd(100): The thickness-dependent structural evolution. <i>Surface Science</i> , 2010, 604, 2002-2011.	1.9	38
26	Functionalized Graphdiyne Nanowires: On-Surface Synthesis and Assessment of Band Structure, Flexibility, and Information Storage Potential. <i>Small</i> , 2018, 14, e1704321.	10.0	38
27	Cu(100) surface: High-resolution experimental and theoretical band mapping. <i>Physical Review B</i> , 2003, 68, .	3.2	37
28	Molecule-metal interaction of pentacene on copper vicinal surfaces. <i>Surface Science</i> , 2007, 601, 2603-2606.	1.9	37
29	Two-dimensional manganese oxide nanolayers on Pd(100): the surface phase diagram. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 134008.	1.8	35
30	Orbital-Symmetry-Dependent Electron Transfer through Molecules Assembled on Metal Substrates. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 436-440.	4.6	35
31	Quantitative determination of the local structure of H ₂ O on TiO ₂ (110) using scanned-energy mode photoelectron diffraction. <i>Surface Science</i> , 2006, 600, 1487-1496.	1.9	34
32	Interplay between magnetic, electronic, and vibrational effects in monolayer Mn ₃ O ₄ grown on Pd(100). <i>Journal of Chemical Physics</i> , 2009, 130, 124707.	3.0	32
33	Self-Assembly and Chemical Modifications of Bisphenol A on Cu(111): Interplay Between Ordering and Thermally Activated Stepwise Deprotonation. <i>ACS Nano</i> , 2014, 8, 207-215.	14.6	31
34	Circular Dichroism in Core Level Photoemission from an Adsorbed Chiral Molecule. <i>Physical Review Letters</i> , 2004, 92, 236103.	7.8	30
35	Synthesizing Highly Regular Single-Layer Alkynyl Silver Networks at the Micrometer Scale via Gas-Mediated Surface Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 5087-5091.	13.7	30
36	Temperature-dependent templated growth of porphine thin films on the (111) facets of copper and silver. <i>Journal of Chemical Physics</i> , 2014, 141, 144703.	3.0	29

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37	Immobilised molecular catalysts and the role of the supporting metal substrate. <i>Chemical Communications</i> , 2015, 51, 9483-9486.	4.1	29
38	Electronic band states of long-range ordered aromatic thione molecules assembled on Cu(100). <i>Physical Review B</i> , 2002, 66, .	3.2	28
39	Strained c(4 \times 2) CoO(100)-like monolayer on Pd(100): Experiment and theory. <i>Surface Science</i> , 2010, 604, 529-534.	1.9	27
40	Deformed Surface Oxides: Uncommon Structure of a (6 \times 1) NiO Surface Oxide on Rh(111). <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 186-190.	4.6	26
41	Growth and Oxidation of Ni Nanostructures on Stepped Rh Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19272-19278.	3.1	24
42	Metamorphosis of ultrathin Ni oxide nanostructures on Ag(100). <i>Physical Review B</i> , 2011, 84, .	3.2	24
43	The two-dimensional cobalt oxide (9 \times 2) phase on Pd(100). <i>Journal of Chemical Physics</i> , 2011, 134, 184706.	3.0	24
44	On-Surface Site-Selective Cyclization of Corrole Radicals. <i>ACS Nano</i> , 2017, 11, 3383-3391.	14.6	24
45	Photoelectron diffraction investigation of the structure of the cleanTiO ₂ (110)(1 \times 1)surface. <i>Physical Review B</i> , 2007, 75, .	3.2	23
46	HREELS study of the adsorption mechanism and orientational order of 2-mercaptobenzoxazole on Cu(100). <i>Surface Science</i> , 2003, 539, 63-71.	1.9	21
47	Thiolate-Bonded Self-Assembled Monolayers on Ni(111): Bonding Strength, Structure, and Stability. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15455-15468.	3.1	21
48	Dynamics of Spatially Confined Bisphenol A Trimers in a Unimolecular Network on Ag(111). <i>Nano Letters</i> , 2016, 16, 1884-1889.	9.1	21
49	Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. <i>Nanoscale</i> , 2018, 10, 2226-2230.	5.6	21
50	One-Dimensional Oxide-Metal Hybrid Structures: Site-Specific Enhanced Reactivity for CO Oxidation. <i>ChemPhysChem</i> , 2010, 11, 2506-2509.	2.1	20
51	Surface-Guided Formation of an Organocobalt Complex. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5754-5759.	13.8	20
52	Direct measurement of Ni incorporation into Fe ₃ O ₄ (001). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16469-16476.	2.8	20
53	Surface structure of nickel oxide layers on a Rh(111) surface. <i>Surface Science</i> , 2013, 611, 86-93.	1.9	19
54	On-Surface Synthesis of Nonmetal Porphyrins. <i>Journal of the American Chemical Society</i> , 2020, 142, 1871-1881.	13.7	19

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55	Oxygen adsorption on stepped Pd(100) surfaces. <i>Surface Science</i> , 2010, 604, 1813-1819.	1.9	18
56	Assembly and Manipulation of a Prototypical N-Heterocyclic Carbene with a Metalloporphyrin Pedestal on a Solid Surface. <i>Journal of the American Chemical Society</i> , 2021, 143, 4433-4439.	13.7	18
57	In Vacuo Porphyrin Metalation on Ag(111) via Chemical Vapor Deposition of Ru ₃ (CO) ₁₂ : Mechanistic Insights. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8751-8758.	3.1	17
58	The structure of the V ₂ O ₃ (0001) surface: A scanned-energy mode photoelectron diffraction study. <i>Surface Science</i> , 2007, 601, 3350-3360.	1.9	16
59	The local adsorption geometry of benzenethiolate on Cu(100). <i>Surface Science</i> , 2008, 602, 2453-2462.	1.9	16
60	Growth of 2-mercaptobenzoxazole on Cu() surface: chemisorbed and physisorbed phases. <i>Surface Science</i> , 2002, 507-510, 7-11.	1.9	15
61	Self-assembly of an aromatic thiolate on Cu(100): The local adsorption site. <i>Surface Science</i> , 2005, 598, 253-262.	1.9	15
62	Growth of cobalt on a VO(111) surface: Template, surfactant or encapsulant role of the oxide nanolayer?. <i>Surface Science</i> , 2008, 602, 2666-2674.	1.9	15
63	Quantitative determination of a model organic/insulator/metal interface structure. <i>Nanoscale</i> , 2018, 10, 21971-21977.	5.6	15
64	The formation of sharp NiO(100)–cobalt interfaces. <i>Surface Science</i> , 2007, 601, L73-L76.	1.9	14
65	Atomic engineering of oxide nanostructure superlattices. <i>Surface Science</i> , 2010, 604, L43-L47.	1.9	14
66	X-ray Spectroscopy of Thin Film Free-Base Corroles: A Combined Theoretical and Experimental Characterization. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2192-2200.	3.1	14
67	Adsorption Conformation and Lateral Registry of Cobalt Porphine on Cu(111). <i>Journal of Physical Chemistry C</i> , 2018, 122, 5452-5461.	3.1	14
68	Unraveling the Oxidation and Spin State of Mn–Corrole through X-ray Spectroscopy and Quantum Chemical Analysis. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6412-6420.	4.6	14
69	Tunable Interface of Ruthenium Porphyrins and Silver. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3215-3224.	3.1	14
70	Molecular orientation of 2-mercaptobenzoxazole adsorbed on Cu(100) surface. <i>Surface Science</i> , 2005, 578, 136-141.	1.9	13
71	The local structure of OH species on the V ₂ O ₃ (0001) surface: A scanned-energy mode photoelectron diffraction study. <i>Surface Science</i> , 2008, 602, 1267-1279.	1.9	13
72	Toward interfacing organic semiconductors with ferromagnetic transition metal substrates: enhanced stability via carboxylate anchoring. <i>Chemical Communications</i> , 2016, 52, 9805-9808.	4.1	13

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73	Bottom-Up Fabrication of a Metal-Supported Oxo ²⁺ Metal Porphyrin. <i>Journal of Physical Chemistry C</i> , 2019, 123, 31011-31025.	3.1	12
74	Internal nanoscale architecture and charge carrier dynamics of wide bandgap non-fullerene bulk heterojunction active layers in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23628-23636.	10.3	12
75	Layer-by-Layer Epitaxy of Porphyrin ²⁺ Ligand Fe(II)-Fe(III) Nanoarchitectures for Advanced Metal ²⁺ Organic Framework Growth. <i>ACS Applied Nano Materials</i> , 2020, 3, 11752-11759.	5.0	12
76	Conformational Control of Chemical Reactivity for Surface ²⁺ Confined Ru ²⁺ Porphyrins. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16561-16567.	13.8	12
77	Structural characterisation of ultra-thin VO _x films on TiO ₂ (110). <i>Surface Science</i> , 2006, 600, 4813-4824.	1.9	11
78	Isomerism control of diethylstilbestrol by metal surface induced O-H cleavage. <i>Chemical Communications</i> , 2018, 54, 12495-12498.	4.1	11
79	Local adsorption structure and bonding of porphine on Cu(111) before and after self-metalation. <i>Journal of Chemical Physics</i> , 2019, 150, 094702.	3.0	11
80	Validation of the inverted adsorption structure for free-base tetraphenyl porphyrin on Cu(111). <i>Chemical Communications</i> , 2020, 56, 3681-3684.	4.1	11
81	Amphiphilic diblock copolymer-mediated structure control in nanoporous germanium-based thin films. <i>Nanoscale</i> , 2019, 11, 2048-2055.	5.6	10
82	Spatial decoupling of macrocyclic metal ²⁺ organic complexes from a metal support: a 4-fluorothiophenol self-assembled monolayer as a thermally removable spacer. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10992-11003.	2.8	10
83	A structural study of a C ₃ H ₃ species coadsorbed with CO on Pd(111). <i>Surface Science</i> , 2008, 602, 2743-2751.	1.9	9
84	Attosecond Dynamics of s - p -Band Photoexcitation. <i>Physical Review Letters</i> , 2019, 123, 176801.	7.8	9
85	Tailoring Ordered Mesoporous Titania Films via Introducing Germanium Nanocrystals for Enhanced Electron Transfer Photoanodes for Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102105.	14.9	9
86	Actinide Coordination Chemistry on Surfaces: Synthesis, Manipulation, and Properties of Thorium Bis(porphyrinato) Complexes. <i>Journal of the American Chemical Society</i> , 2021, 143, 14581-14591.	13.7	9
87	Abiotic Formation of an Amide Bond via Surface ²⁺ Supported Direct Carboxyl ²⁺ Amine Coupling. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	9
88	Can circular dichroism in core-level photoemission provide a spectral fingerprint of adsorbed chiral molecules?. <i>New Journal of Physics</i> , 2005, 7, 109-109.	2.9	8
89	Identifying On ²⁺ Surface Site ²⁺ Selective Chemical Conversions by Theory ²⁺ Aided NEXAFS Spectroscopy: The Case of Free ²⁺ Base Corroles on Ag(111). <i>Chemistry - A European Journal</i> , 2018, 24, 6787-6797.	3.3	8
90	Tailor-made ultrathin manganese oxide nanostripes: \sim magic widths TM on Pd(1 1N) terraces. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 042001.	1.8	7

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91	The adsorption of CCl ₄ on Ag(111): Carbene and CC bond formation. <i>Surface Science</i> , 2006, 600, 241-248.	1.9	6
92	Oxide-Metal Nanowires by Oxidation of a One-Dimensional Mn-Pd Alloy: Stability and Reactivity. <i>Langmuir</i> , 2010, 26, 16474-16480.	3.5	6
93	Structure of a Model Dye/Titania Interface: Geometry of Benzoate on Rutile-TiO ₂ (110) (1 Å ⁻¹) Tj ETQq ₁ 1 0.784314 rgBT	3.1	8
94	Bisphenol A and Diethylstilbestrol on Cu(111): On-Surface Polymerization Initiated by Hydroxy-Directed <i>ortho</i> -C-H Bond Activation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1354-1361.	3.1	6
95	The local structure of SO ₂ and SO ₃ on Ni(111): A scanned-energy mode photoelectron diffraction study. <i>Surface Science</i> , 2009, 603, 2062-2073.	1.9	5
96	Polyphenylsilole multilayers – an insight from X-ray electron spectroscopy and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31117-31124.	2.8	5
97	Surface-Guided Formation of an Organocobalt Complex. <i>Angewandte Chemie</i> , 2016, 128, 5848-5853.	2.0	5
98	Rotation in an Enantiospecific Self-Assembled Array of Molecular Raffle Wheels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26932-26938.	13.8	5
99	Study of Atomic Motions in EuBa ₂ Cu ₃ O ₇ – by M ¹ ssbauer and EXAFS Spectroscopies. <i>Journal of Superconductivity and Novel Magnetism</i> , 2001, 14, 675-681.	0.5	4
100	Orbital anisotropy in paramagnetic manganese oxide nanostripes. <i>Physical Review B</i> , 2013, 87, .	3.2	4
101	Formation of a thermally stable bilayer of coadsorbed intact and deprotonated thymine exploiting the surface corrugation of rutile TiO ₂ (110). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20433-20442.	2.8	4
102	Probing structural changes upon carbon monoxide coordination to single metal adatoms. <i>Journal of Chemical Physics</i> , 2020, 152, 051102.	3.0	4
103	Modular Assembly of Vibrationally and Electronically Coupled Rhenium Bipyridine Carbonyl Complexes on Silicon. <i>Journal of the American Chemical Society</i> , 2021, 143, 19505-19516.	13.7	4
104	Operando Study of Structure Degradation in Solid-State Dye-Sensitized Solar Cells with a TiO ₂ Photoanode Having Ordered Mesopore Arrays. <i>Solar Rrl</i> , 2022, 6, .	5.8	4
105	Visibility of TiO ₂ (110)(1Å ⁻¹) bridging oxygen in core level photoelectron spectroscopy. <i>Physical Review B</i> , 2012, 85, .	3.2	3
106	Quantum Tunneling Mediated Interfacial Synthesis of a Benzofuran Derivative. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11285-11290.	13.8	3
107	Stabilisation of tri-valent ions with a vacant coordination site at a corrole-metal interface. <i>Chemical Communications</i> , 2020, 56, 11219-11222.	4.1	3
108	Conformational Control of Chemical Reactivity for Surface-Confined Ru-Porphyrins. <i>Angewandte Chemie</i> , 2021, 133, 16697-16703.	2.0	2

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109	The Flexible On-Surface Self-Assembly of a Low-Symmetry Mabiq Ligand: An Unconventional Metal-Assisted Phase Transformation on Ag(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 23178-23191.	3.1	2
110	Correction to <i>In Vacuo</i> Porphyrin Metalation on Ag(111) via Chemical Vapor Deposition of Ru ₃ (CO) ₁₂ : Mechanistic Insights. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12503-12503.	3.1	1
111	The (100)â†(111) Transition in Epitaxial Manganese Oxide Nanolayers. <i>Springer Proceedings in Physics</i> , 2009, , 163-170.	0.2	1
112	Low Dimensionality and Epitaxial Stabilization in Metal-Supported Oxide Nanostructures: Mnx Oy on Pd(100) Mnx Oy. <i>Springer Series in Materials Science</i> , 2012, , 209-237.	0.6	0
113	Quantum Tunneling Mediated Interfacial Synthesis of a Benzofuran Derivative. <i>Angewandte Chemie</i> , 2019, 131, 11407-11412.	2.0	0
114	Abiotic Formation of Amide Bond via Surfaceâ€Supported Direct Carboxylâ€Amine Coupling. <i>Angewandte Chemie</i> , 0, , .	2.0	0
115	Quantitative Insights into the Adsorption Structure of Diindeno[1,2- <i>a</i> ; <i>1</i> â€ ² - <i>c</i>] <i>fluorene-5,10,15-trione</i> (Truxenone) on a Cu(111) Surface Using X-ray Standing Waves. <i>ACS Omega</i> , 2021, 6, 34525-34531.	3.5	0